



THE COCHIN COLLEGE

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University

Re-accredited by NAAC With B+ Grade



Fourth Cycle
NAAC Accreditation 2024

Criterion 1 Curricular Aspects

1.3 - Academic Flexibility

Metric No. 1.3.2

Percentage of students undertaking project work/field work/ internships

Projects - BCA

Submitted to



National Assessment and Accreditation Council



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Declaration of Principal

This is to certify that 41 students from the Department of Computer Application have completed Project work during the academic year 2023-2024

List of students who undertook project works from Department of Computer Application (UG) during the year 2023-24

SL NO	PROGRAMME NAME	NAME OF STUDENT	PROJECT WORK/ FIELD/INTERNSHIP
1	BCA (SF)	Joel Fonsaco	PROJECT WORK
2	BCA (SF)	ASLAM N A	PROJECT WORK
3	BCA (SF)	Aiswarya prathapan	PROJECT WORK
4	BCA (SF)	Sona Treesa cp	PROJECT WORK
5	BCA (SF)	Amaya M	PROJECT WORK
6	BCA (SF)	Nandana K.M	PROJECT WORK
7	BCA (SF)	Mohammed Adnan ph	PROJECT WORK
8	BCA (SF)	AKHILENDU C.D	PROJECT WORK
9	BCA (SF)	Niveditha jc	PROJECT WORK
10	BCA (SF)	Haritha kuttan	PROJECT WORK
11	BCA (SF)	Aleena Antony	PROJECT WORK
12	BCA (SF)	Sahil C N	PROJECT WORK
13	BCA (SF)	Farhan aman mm	PROJECT WORK
14	BCA (SF)	Muhammed Jasir P.M	PROJECT WORK
15	BCA (SF)	Muhammed yahiya	PROJECT WORK
16	BCA (SF)	Aneetta A P	PROJECT WORK
17	BCA (SF)	Nakul krishna MR	PROJECT WORK
18	BCA (SF)	Gowri sankari V	PROJECT WORK
19	BCA (SF)	Joseph Thomas	PROJECT WORK
20	BCA (SF)	Rohan Joseph	PROJECT WORK
21	BCA (SF)	Antony jude	PROJECT WORK
22	BCA (SF)	Maxwin francis	PROJECT WORK
23	BCA (SF)	Amshen Yesudas	PROJECT WORK
24	BCA (SF)	AISWARYA.D	PROJECT WORK
25	BCA (SF)	Nandhana Jeeraj	PROJECT WORK
26	BCA (SF)	DON PRASAD	PROJECT WORK
27	BCA (SF)	Derin V J	PROJECT WORK
28	BCA (SF)	Arun Jayaprakash	PROJECT WORK
29	BCA (SF)	Fathima.K.D	PROJECT WORK
30	BCA (SF)	Abhishek Mohan	PROJECT WORK
31	BCA (SF)	Amshen Yeshudas	PROJECT WORK
32	BCA (SF)	Derin V J	PROJECT WORK
33	BCA (SF)	Azadulla Haseem	PROJECT WORK
34	BCA (SF)	Antony Jude	PROJECT WORK
35	BCA (SF)	Akhil P A	PROJECT WORK
36	BCA (SF)	Rizdhan mz	PROJECT WORK
37	BCA (SF)	Meenakshi M R	PROJECT WORK
38	BCA (SF)	Ibabinhd Mohamed Sharif	PROJECT WORK
39	BCA (SF)	Athira M S	PROJECT WORK
40	BCA (SF)	Amal Chandra Babu	PROJECT WORK

Continued on next page





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SL NO	PROGRAMME NAME	NAME OF STUDENT	PROJECT WORK/ FIELD/INTERNSHIP
41	BCA (SF)	Aiemen Anwar	PROJECT WORK





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





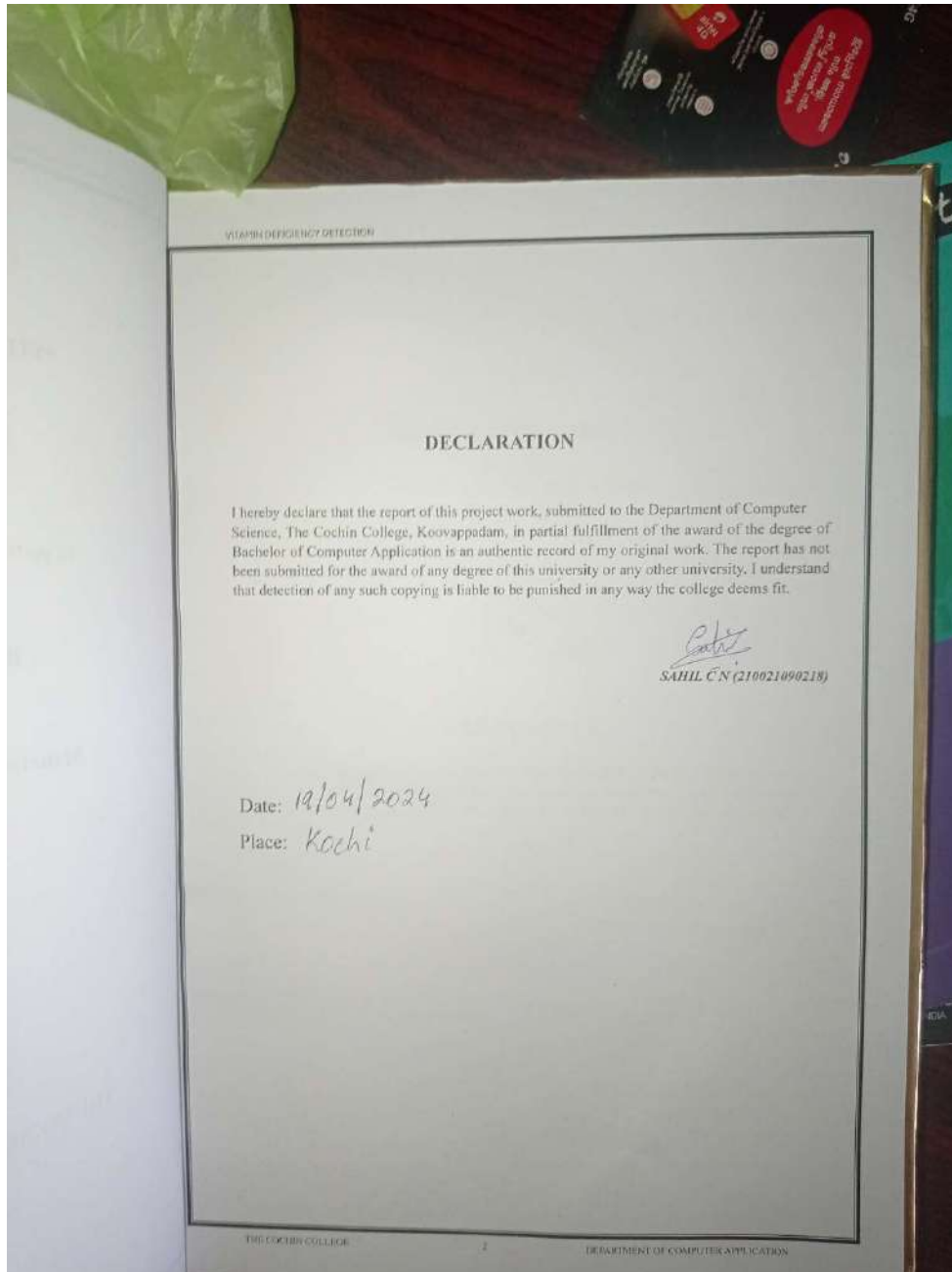
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





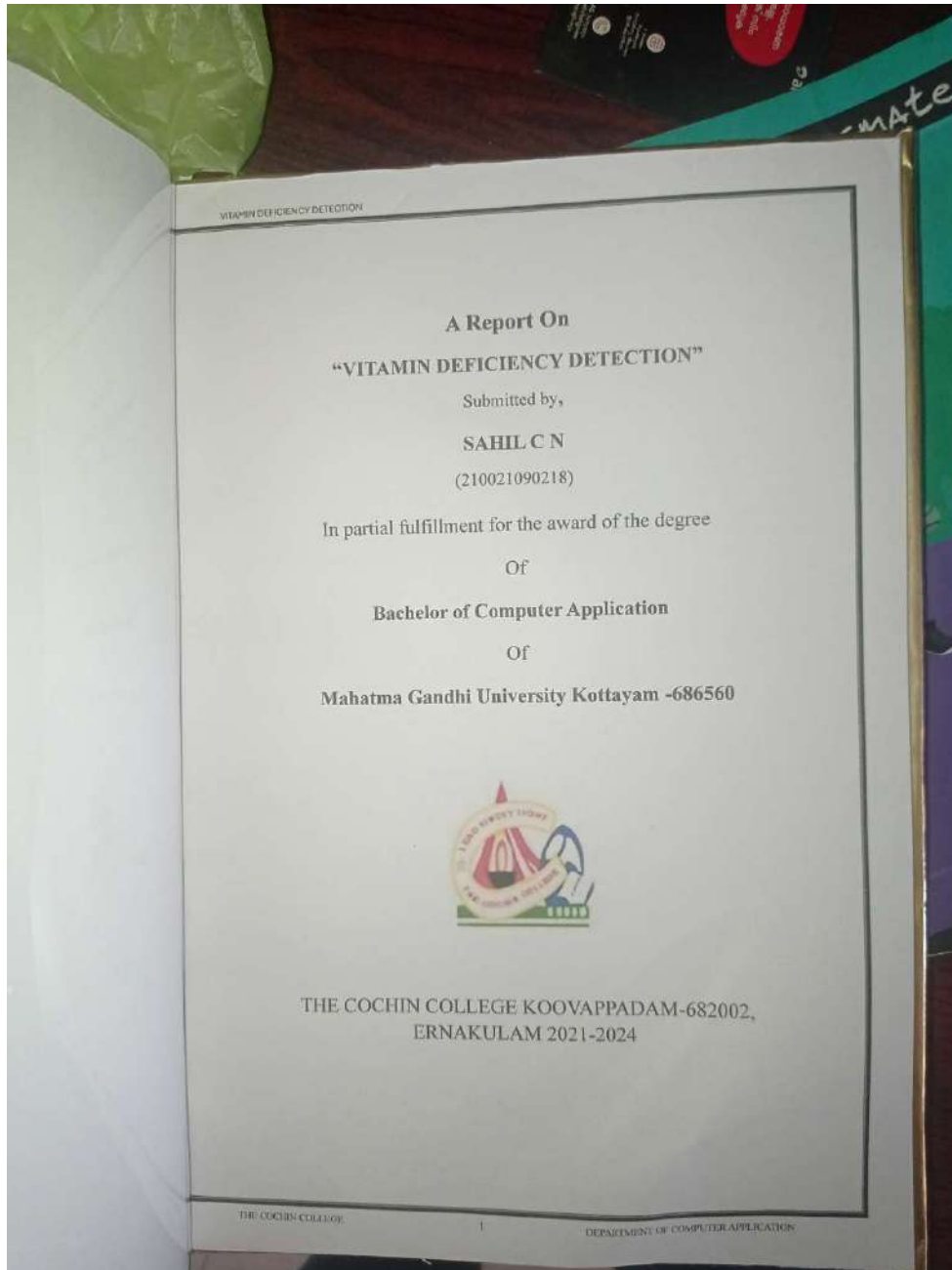
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

A Report On

“REAL TIME OBJECT DETECTION”

Submitted by,

AISWARYA. D

(210021090165)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University Kottayam -686560



THE COCHIN COLLEGE KOOVAPPADAM-682002,
ERNAKULAM 2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

AISWARYA.D (210021090165)

Date:

Place:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

THE COCHIN COLLEGE

KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "REAL TIME OBJECT DETECTION" submitted by *AISWARYA.D (210021090165)*, in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024.

HRIDYA KS
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner

THE COCHIN COLLEGE

3

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

AKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

We convey our sincere thanks to Ms. KEERTHANA S, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

We express our deep sense gratitude to our project guide, Ms. HRIDYA K S, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout our project, without which the project could not have been accomplished successfully.

We also wish to extend our heartfelt gratitude to our parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

SYNOPSIS

Real-time object detection is a transformative technology in the field of computer vision, enabling machines to identify and locate objects within milliseconds. This capability is crucial for applications requiring immediate response, such as autonomous vehicles navigating traffic, security systems monitoring for threats, and smartphones recognizing faces. At its core, real-time object detection employs advanced algorithms and neural networks to analyze visual data on-the-fly, often utilizing GPUs for accelerated processing. The ongoing advancements aim to enhance accuracy, reduce latency, and minimize computational demands, thereby broadening the potential for deployment across various industries and devices. As this technology evolves, it promises to revolutionize the way machines interact with the physical world, making them more perceptive and responsive than ever before.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

TABLE OF CONTENTS

SL NO.	TITLE	PAGE NO
1	INTRODUCTION	8
1	Overview of the project	8
1.1	Objectives of the Project	8
2	SYSTEM ANALYSIS	9
2.1	Introduction	9
2.2	Identification of need	10
2.3	Existing System	10
2.4	Proposed System	11
3	FEASIBILITY STUDY	13
3.1	Operational feasibility	13
3.2	Technical feasibility	14
3.3	Economical feasibility	14
3.4	Scheduling feasibility	14
4	SYSTEM SPECIFICATION	15
4.1	Hardware Specification	15
4.2	System Specification	16
5	SYSTEM DESIGN	16
5.1	System Design	16
5.1.1	Input Design	17
5.1.2	Output Design	17
5.2	Dataflow Diagram (DFD)	18
5.3	Flowchart	20





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

6	SYSTEM TESTING	22
6.1	Testing Process	22
6.2	Testing Tools	23
7	SYSTEM IMPLEMENTATION	23
7.1	Introduction	23
7.2	Source Code	25
7.3	Sample Input Screens	30
8	CONCLUSION AND FUTURE SCOPE	32
8.1	Conclusion	32
8.2	Future Scope	32
8.3	Bibliography	33





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

1. INTRODUCTION

1.1 OVERVIEW OF THE PROJECT

Real-time object detection is a cutting-edge technology in computer vision that enables the identification and tracking of objects in live video feeds or images instantly. This technology leverages advanced deep learning models to analyse visual data on the fly, making it essential for applications that require immediate response, such as autonomous vehicles, security systems, and interactive robots. The core challenge lies in achieving high accuracy while maintaining fast processing speeds to ensure the system can operate in real-world conditions effectively. As the technology progresses, it promises to revolutionize how machines interact with their environment, offering more intelligent and responsive automation.

1.2 OBJECTIVE OF THE PROJECT

The objective of your project, a real-time object detection camera using the TensorFlow Object Detection API and OpenCV integrated with a Tkinter-based desktop application, can be multifaceted. Here are some potential objectives:

- **Real-time Object Detection:** The primary objective is to detect objects in real-time through a camera feed. This involves leveraging pre-trained models like SSD MobileNet v3 to identify objects accurately and efficiently.
- **User Interface:** Develop a user-friendly interface using Tkinter to interact with the application. This includes features like starting/stopping the camera feed, selecting different models for object detection, adjusting detection thresholds, and displaying the detected objects in a visually intuitive manner.
- **Customization:** Allow users to choose from different pre-trained models or even upload their own models for object detection. This adds flexibility and allows users to experiment with various algorithms.
- **Performance Optimization:** Optimize the performance of the object detection algorithm to ensure smooth real-time detection, even on lower-end hardware. This





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

may involve techniques like model quantization, multi-threading, or hardware acceleration.

- **Accuracy and Robustness:** Ensure that the object detection algorithm performs accurately across various lighting conditions, object orientations, and backgrounds. Fine-tune parameters or experiment with different models to improve accuracy and robustness.
- **Integration:** Integrate additional features like saving snapshots of detected objects, logging detection results, or connecting to external devices for further processing.
- **Documentation and User Guide:** Provide comprehensive documentation and a user guide to help users understand how to use the application effectively. This includes installation instructions, usage guidelines, and troubleshooting tips.
- **Scalability:** Design the application in a modular and scalable manner so that it can be easily extended to support additional features or integrate with other systems in the future.

By achieving these objectives, your project can provide users with a powerful tool for real-time object detection with a user-friendly interface and customizable features.

2.SYSTEM ANALYSIS

2.1 INTRODUCTION

Analysis is the process of breaking the problem into the successively manageable parts for individual study, system analysis is the study of various operations that has to be done to solve the problem .one aspect of the system analysis is defining the boundaries of the system and determining whether or not be proposed system should consider other related systems. One of the main meanings of the feasibility is possibility checking of the different criteria for success is included in feasibility





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

study section .these criteria's are cost ,time ,efficiency etc....all these factors play an important role in achieving objective of the system .that means the system should be such it gives optimum performance at minimum cost ,time requirements .these system contributes to the overall objectives of the organization .the system be implemented using current technology and within given cost and schedule constrains .the system is integrated with systems which are already in place. It is a general term that refers to a structural process for identifying and solving problems .in a computer-based transformation system silk is the structured approach. Analysis implies the process of breaching something down in to its parts so that the whole may be understood. The definition of system analysis, but also that of synthesis, which is the process of putting parts together to form a new whole.

2.2 IDENTIFICATION OF NEED

In this section, you'll delve into the reasons why there's a demand for the project. This involves:

- **Market Demand:** Discuss the growing need for real-time object detection systems across various industries, such as surveillance, robotics, and autonomous vehicles.
- **Limitations of Existing Systems:** Identify the shortcomings of current object detection solutions, including issues related to complexity, lack of real-time performance, limited customization options, and accessibility barriers for non-technical users.
- **Emerging Trends:** Highlight any emerging trends or technological advancements driving the need for more efficient and user-friendly object detection systems, such as the rise of edge computing and the proliferation of IoT devices.

2.3 EXISTING SYSTEM

- **Python:** The system is implemented using the Python programming language, which serves as the primary language for development.
- **OpenCV (Open Source Computer Vision Library):** OpenCV is utilized for various tasks including video capture, preprocessing, and overlaying bounding





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

boxes on detected objects. It provides a rich set of functionalities for image and video processing tasks.

- **Tkinter:** Tkinter is a Python library used for creating graphical user interfaces (GUIs). In this system, Tkinter is employed to develop a user-friendly interface, allowing users to interact with the object detection system seamlessly.
- **TensorFlow:** TensorFlow is an open-source machine learning framework developed by Google. It is used for building and training deep learning models, including object detection models.
- **Keras:** Keras is a high-level neural networks API, written in Python and capable of running on top of TensorFlow. It is used in conjunction with TensorFlow for building and training deep learning models.
- **SSD (Single Shot MultiBox Detector):** SSD is a popular object detection algorithm that combines deep learning with computer vision techniques for real-time object detection. In this system, a pre-trained SSD classifier is utilized as the detection model. The SSD model is trained on a diverse dataset of object images to enable accurate and efficient detection of objects in video frames.
- **Real-time Video Streams:** The system processes real-time video streams for object detection. OpenCV is used for video capture and preprocessing, enabling efficient frame analysis for real-time processing.
- **Object Detection and Visual Feedback:** Upon detecting objects of interest in the video frames, the system provides visual feedback by overlaying bounding boxes on the detected objects using OpenCV. This aids in monitoring and analysis of the video feed.

2.4 PROPOSED SYSTEM

In this section, you'll introduce your proposed solution to address the identified needs and shortcomings. This includes:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

- **Key Features:** Outline the key features and functionalities of the real-time object detection camera desktop application, emphasizing its user-friendly interface, real-time performance, customization options, and compatibility with a wide range of hardware setups.
- **Technical Architecture:** Provide an overview of the technical architecture of the application, including how the various components (e.g., TensorFlow models, OpenCV for image processing, Tkinter for GUI) interact with each other.
- **Advantages:** Highlight the advantages and benefits of the proposed system compared to existing solutions, such as ease of use, faster deployment, improved accuracy, and flexibility for customization.
- **Potential Impact:** Discuss the potential impact of the proposed system on various industries and use cases, showcasing its versatility and applicability in solving real-world problems.

By providing a detailed analysis and explanation in each section, you can effectively communicate the significance of your project and its potential value to users and stakeholders.

3. FEASIBILITY STUDY

Feasibility is conducted to identify the best system that meets all requirements. It is both necessary and important to evaluate the feasibility of a project at the earliest possible time. feasibility study includes an identification description, an evaluation of proposed system and selection of the best system for the job. During the system is to be carried out. this is to ensure that the proposed system is not A burden to the





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

shop. The feasibility study should be relatively cheap and quick. the results should inform the decision of whether to go ahead with a more detailed analysis, some understanding of the major requirements for the system is essential. Four key considerations involved in the feasibility analysis are

- Operational feasibility
- Technical feasibility
- Economical feasibility
- Scheduling feasibility

3.1 OPERATIONAL FEASIBILITY

User Acceptance: Assess the level of user acceptance and willingness to adopt the application, considering factors such as ease of use, intuitiveness of the user interface, and compatibility with existing workflows.

- **Scalability:** Evaluate the scalability of the application to handle varying workloads and accommodate future growth, ensuring that it can effectively meet the needs of users as the demand for object detection capabilities increases.

3.2 TECHNICAL FEASIBILITY

Availability of Resources: Evaluate the availability of the necessary resources, including hardware components (e.g., cameras, processors) and software tools (e.g., TensorFlow, OpenCV, Tkinter), to develop and deploy the application.

- **Technical Expertise:** Assess the technical expertise required to implement the project, including proficiency in programming languages (e.g., Python), machine learning concepts, computer vision techniques, and GUI development using Tkinter.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

- **Compatibility and Integration:** Determine the compatibility of the chosen technologies and frameworks, ensuring seamless integration between components such as TensorFlow models for object detection, OpenCV for image processing, and Tkinter for GUI development.

3.3 ECONOMICAL FEASIBILITY

Cost Analysis: Estimate the cost associated with developing the application, including hardware procurement, software licenses, development tools, and personnel expenses (e.g., developer salaries, training costs).

- **Return on Investment (ROI):** Evaluate the potential return on investment by estimating the revenue generation opportunities or cost savings resulting from the deployment of the application, such as increased efficiency in surveillance systems or enhanced productivity in industrial automation.

3.4 SCHEDULING FEASIBILITY

- **Project Timeline:** Develop a project timeline outlining the various stages of development, testing, and deployment, considering factors such as resource availability, technical complexity, and potential delays.
- **Milestones and Deliverables:** Define clear milestones and deliverables to track progress throughout the project lifecycle, ensuring that deadlines are met and project objectives are achieved within the specified timeframe.

THE COCHIN COLLEGE

14

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

RISK ASSESSMENT

- **Identify Risks:** Identify potential risks and challenges that may impact the success of the project, such as technical hurdles, resource constraints, regulatory compliance issues, or changes in market demand.
- **Mitigation Strategies:** Develop mitigation strategies to address identified risks, including contingency plans, alternative approaches, or resource reallocation to minimize potential negative impacts on the project.

By conducting a comprehensive feasibility study, you can assess the viability of your real-time object detection camera desktop application and make informed decisions regarding its development and implementation.

4. SYSTEM SPECIFICATION

4.1 HARDWARE AND SOFTWARE REQUIREMENT

This specifies the hardware and the support software required to carry out the development.

HARDWARE SPECIFICATION

The selection of hardware is very important in the existence and proper working of any software. Then selection hardware, the size and capacity requirements are also important.

Processor	Intel Pentium Core i3 and above
Primary Memory	4GB RAM and above
Storage	320 GB hard disk and above





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

Display	VGA Colour Monitor
Keyboard	Windows compatible
Mouse	Windows compatible
Camera	Any camera device supported by OpenCV (webcam, USB camera, etc.)

4.2 SOFTWARE SPECIFICATION

One of the most difficult tasks is selecting software for the system, once the system requirements is found out then we have to determine whether a particular software package fits for those system requirements. The application requirement:

Front end	HTML (web), XML (android)
Language	Python
Back end	MySQL
Operating system	windows 7 or above
IDE	PyCharm, Android studio

5.

5. SYSTEM DESIGN

5.1 SYSTEM DESIGN

The system design of a real-time object detection project is a complex framework that integrates various components to process and analyze visual data efficiently. At its core, the system employs deep learning models such as the Single Shot Multibox





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

Detector (SSD) algorithm, which is optimized for speed and accuracy. These models are trained on extensive datasets like MS COCO or PASCAL VOC to recognize a wide array of object classes. The design also incorporates OpenCV for image processing and real-time video stream handling. The system is engineered to detect both static and moving objects, classify them, and do so on reasonably equipped hardware to ensure broad accessibility. A significant focus is placed on achieving high precision and recall rates, with some systems reporting accuracy as high as 97%. This robust design enables the deployment of real-time object detection across various platforms, from mobile devices to industrial-grade servers, catering to the diverse needs of applications in surveillance, autonomous navigation, and beyond.

5.1.1 INPUT DESIGN

The input design of a real-time object detection project is crucial as it determines how the system will receive and process visual data. Typically, the input comes from video streams, which can be sourced from webcams, IP cameras, or even online platforms like YouTube. The system uses libraries such as OpenCV to capture these video streams and feed them into the detection algorithm. The design must ensure that the input is compatible with the model's requirements, often necessitating preprocessing steps like resizing, normalization, and augmentation to improve detection performance. Additionally, the input design must account for various conditions such as lighting, movement, and camera quality to maintain consistent detection accuracy across different scenarios.

5.1.2 OUTPUT DESIGN

The output design of a real-time object detection project is meticulously crafted to present the results of object detection in an intuitive and actionable manner. Once the system processes the input video stream, it outputs the detected objects typically by drawing bounding boxes around them, often accompanied by labels and confidence scores. This visual overlay is rendered on the original video frames, providing immediate visual feedback. The design also includes mechanisms for logging detections, which can be used for further analysis or triggering responses in connected systems. For instance, in security applications, the detection of





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

unauthorized individuals could automatically alert personnel. The output is optimized for clarity and speed, ensuring that users can quickly understand and act upon the information provided by the system.

5.2 DATAFLOW DIAGRAM

Data flow diagram (DFD) is a graphical representation of the “flow” of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system without going into great detail, which can later be elaborated. A DED shows what kind of information will be input to and output from the system, how the data will advance through the system, and where the data will be stored.

DFD is a designing tool used in the top-down approach to system Design. This context level DFD is next “exploded”, to produce a Level 1 DFD that shows some of the detail of the system being modelled. The Level 1 DFD shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It also identifies internal data stores that must be present in order for the system to do its job and shows the flow of data between the various parts of the system.

- Function- An activity or a function that is performed for some specific reason; can be manual or computerized; ultimately each process should perform only one activity.
- Data Store- collection of data that is permanently stored.
- External Entity- A person, organization or system that is external to the system but interact with it.
- Data Flow- Single piece of data or logical collection of information like a bill.





THE COCHIN COLLEGE

KOCHI - 682 002

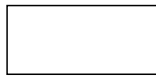
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

The following are some DFD symbols used in the project.



Rectangle: - It defines a source or destination of system data.



Circle: - It represents a process that transforms incoming data flow into outgoing data flow.



Arrow: - It defines data flow. It is a pipeline through which information flows.



Open rectangle: - It is used to store data or a temporary repository of data.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

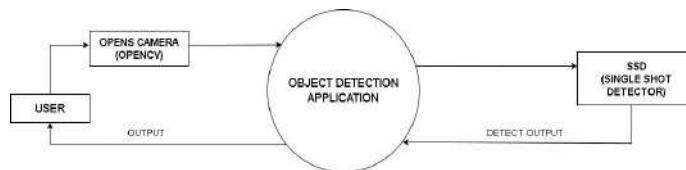
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

DATAFLOW DIAGRAM

LEVEL 0:





THE COCHIN COLLEGE

KOCHI - 682 002

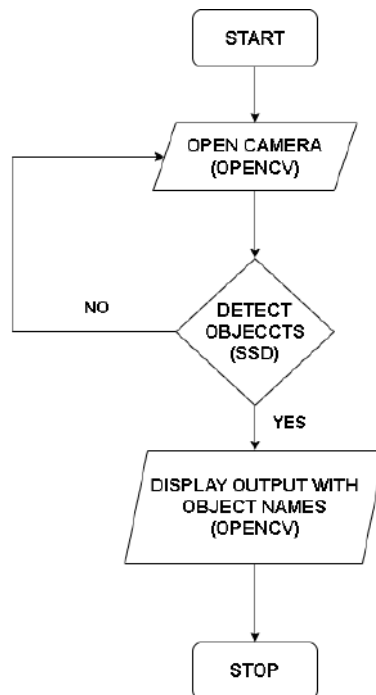
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

5.3 FLOWCHART



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

6. SYSTEM TESTING

6.1 TESTING PROCESS

- **Test Planning:** Define test objectives, test scenarios, and test cases based on the application requirements and specifications.
- **Test Execution:** Execute the planned tests, following the defined test cases and scenarios. Record test results and any issues encountered during testing.
- **Defect Tracking:** Document and track defects or issues identified during testing using a defect tracking system. Prioritize and resolve defects based on their severity and impact on the application.
- **Regression Testing:** Perform regression testing to ensure that fixes or changes to the application do not introduce new defects or regressions in existing functionality.
- **User Acceptance Testing (UAT):** Involve end-users or stakeholders in UAT to validate that the application meets their requirements and expectations.
- **Performance Monitoring:** Monitor the performance of the application in production to identify any performance issues or bottlenecks that may arise over time.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

6.2 TESTING TOOLS

- **Pytest:** A popular testing framework for Python that supports unit testing, functional testing, and integration testing.
- **Selenium:** Useful for automated testing of web-based user interfaces and GUI testing.
- **Load Testing Tools:** Such as Apache JMeter or Locust, for assessing the performance and scalability of the application under load.

By conducting thorough testing throughout the development process, you can ensure the reliability, functionality, and performance of your real-time object detection.

7. SYSTEM IMPLEMENTATION

7.1 INTRODUCTION

A crucial phase in the system life cycle is the successful implementation of the new system design. Implementation involves creating computer compatible files, training the operating staff, installing hardware, terminals. In the system implementation, user training is crucial for minimizing resistance to change and giving the new system a chance to prove its worth. The objectives of the system implementation are to put the system into operation while holding costs, risks and personal irritation to minimum. Once the physical system has been designed in details, the next stage is to run the design into a working system and then to monitor the operation of the system to ensure that it continues to work efficiently and the operation of the system to ensure that it continues to work efficiently and effectively. The implementation stage of a is often very complex and time





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

REAL TIME OBJECT DETECTION

consuming because many more people are involved than in the earlier stages. The system implementation took place through various stages as follows,

- Implantation planning.
- Education and training.
- System testing.
- System implementation.
- Change over.

The implementation plan includes a description of all the activities that must occur to implement the new system and to put it into operation. To achieve the objectives and benefits from computer-based system, it is essential for the people who will be confident of their role in the new jobs. After software is developed to meet user's requirements, users test it for acceptance. The changes over phase are used to provide adaptability for the new system.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

7.2 SOURCE CODE

1.frontend.py

```

from tkinter import*

from PIL import Image, ImageTk

from object_detection import object_detector

window = Tk()

window.title("Object Detection Camera")

window.iconphoto(False, PhotoImage(file='security-camera.png'))

window.geometry('800x500')

mainFrame = Frame(window, bd=2)

label_title = Label(mainFrame, text = "Object Detection Camera", font=('Helvetica', 40, 'bold'))

label_title.grid(pady=(10,10), column=2)

icon_1 = Image.open('object.png')

icon_1 = icon_1.resize((140, 140),Image.ANTIALIAS)

icon_1 = ImageTk.PhotoImage(icon_1)

label_icon_1 = Label(mainFrame, image=icon_1)

label_icon_1.grid(row=1, pady=(5, 10), column=2)

btn_image = Image.open('record.png')

btn_image = btn_image.resize((50, 50),Image.ANTIALIAS)

```

THE COCHIN COLLEGE

25

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

```

btn_image = ImageTk.PhotoImage(btn_image)

# label_btn_image = Label(mainFrame, image=btn_image)

# label_btn_image.grid(row=2, pady=(5, 10), column=2)

# btn=Button(mainFrame, text=" Start Camera 1",font=('Helvetica', 20, 'bold'), height=75,
width=320, fg='green', image=btn_image, compound='left', bg='lightblue')

# btn.grid(row=2, pady=(20,10), column=2)

btn=Button(mainFrame, text=" Start Camera",font=('Helvetica', 20, 'bold'), height=75, width=320,
fg='green', image=btn_image, compound='left', bg='lightblue', command=object_detector)

btn.grid(row=3, pady=(20,10), column=2)

btn_image_1 = Image.open('logout.png')

btn_image_1 = btn_image_1.resize((50, 50),Image.ANTIALIAS)

btn_image_1 = ImageTk.PhotoImage(btn_image_1)

btn_exit=Button(mainFrame, text=" Exit ",font=('Helvetica', 20, 'bold'), height=75, width=320,
fg='red', image=btn_image_1, compound='left', bg='lightblue', command=window.quit)

btn_exit.grid(row=4, pady=(20,10), column=2)

mainFrame.pack()

window.mainloop()

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

2. Object_detection.py

```
import cv2

import matplotlib.pyplot as plt

from datetime import datetime

def object_detector():

    config_file = 'ssd_mobilenet_v3_large_coco_2020_01_14.pbtxt'

    frozen_model = 'frozen_inference_graph.pb'

    model = cv2.dnn_DetectionModel(frozen_model, config_file)

    classLabels=[]

    file_name='labels.txt'

    with open(file_name,'rt') as fpt:

        classLabels=fpt.read().rstrip('\n').split('\n')

    model.setInputSize(320,320)

    model.setInputScale(1.0/127.5)

    model.setInputMean((127.5,127.5,127.5))
```

THE COCHIN COLLEGE

27

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

```

model.setInputSwapRB(True)

cap = cv2.VideoCapture(0)

if not cap.isOpened():

    cap=cv2.VideoCapture(0)

if not cap.isOpened():

    raise IOError("Cannot open webcam")

font_scale=3

font=cv2.FONT_HERSHEY_PLAIN

while True:

    ret,frame = cap.read()

    ClassIndex, confidence, bbox = model.detect(frame, confThreshold=0.55)

    if (len(ClassIndex)!=0):

        for ClassInd, conf, boxes in zip(ClassIndex.flatten(), confidence.flatten(), bbox):

            if(ClassInd<=80):

                cv2.rectangle(frame, boxes, (255, 0, 0), 2) # Draw blue border

```

THE COCHIN COLLEGE

28

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

```

cv2.putText(frame, classLabels[ClassInd-1], (boxes[0]+10, boxes[1]+40), font,
fontScale=font_scale, color=(0, 255, 0), thickness=3)

current_time = datetime.now().strftime("%H:%M:%S")

current_date = datetime.now().strftime("%Y-%m-%d")

cv2.putText(frame, f"Date: {current_date}", (20, 50), cv2.FONT_HERSHEY_SIMPLEX, 1, (0,
255, 0), 2)

cv2.putText(frame, f"Time: {current_time}", (20, 80), cv2.FONT_HERSHEY_SIMPLEX, 1, (0,
255, 0), 2)

cv2.imshow('Object Detection', frame)

if cv2.waitKey(2) & 0xFF == ord('q'):

    break

cap.release()

cv2.destroyAllWindows()

```

THE COCHIN COLLEGE

29

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

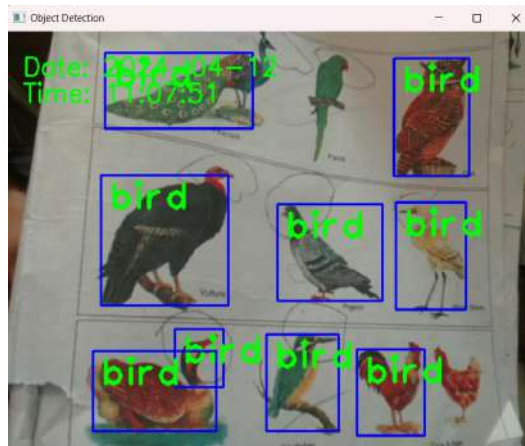
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

7.3 SAMPLE INPUT SCREENS





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

REAL TIME OBJECT DETECTION

8. CONCLUSION AND FUTURE SCOPE

8.1 CONCLUSION

In conclusion, real-time object detection stands as a transformative force in the realm of artificial intelligence, pushing the boundaries of how machines perceive and interact with the world. By integrating sophisticated algorithms with the capability to analyze and interpret visual data instantaneously, this technology is set to unlock a myriad of possibilities across various industries. From enhancing public safety through advanced surveillance to propelling the future of autonomous transportation, real-time object detection is not just a technological achievement; it's a pivotal step towards an era where AI and human coexistence are harmoniously intertwined, creating smarter, safer, and more efficient environments.

8.2 FUTURE SCOPE

The future scope of real-time object detection is vast and promising, with potential advancements poised to further enhance its speed, accuracy, and adaptability. As computational power continues to grow and algorithms become more sophisticated, we can expect this technology to be more widely implemented in areas such as smart cities, interactive media, and personalized healthcare. The integration of object detection with other AI domains like natural language processing and predictive analytics could lead to smarter, context-aware systems capable of understanding and anticipating human needs. Moreover, the push towards low-power, high-performance computing will likely enable the deployment of real-time object detection in more portable and accessible devices, broadening its impact on society.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

REAL TIME OBJECT DETECTION

8.3 BIBILOGRAPHY

- [1] <http://www.w3schools.com>
- [2] <http://www.tutorialspoint.com>
- [3] <http://www.stackoverflow.com>





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report on
"STOCK MARKETING PREDICTION"

Submitted by,
ANTONY JUDE
(210021090177)

In partial fulfillment for the award of the degree
OF
Bachelor of Computer Application
Of
Mahatma Gandhi University
Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM-682002, ERNAKULAM
2021-2024





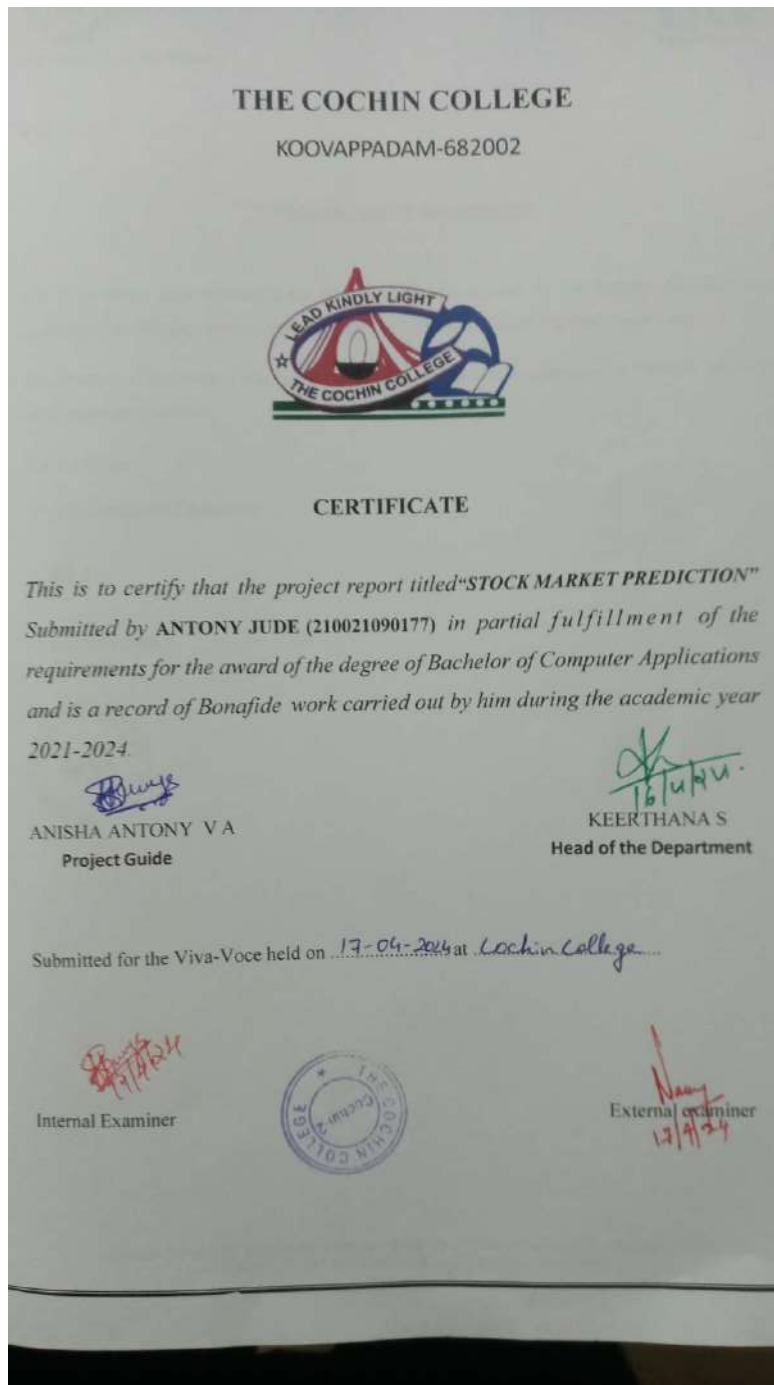
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





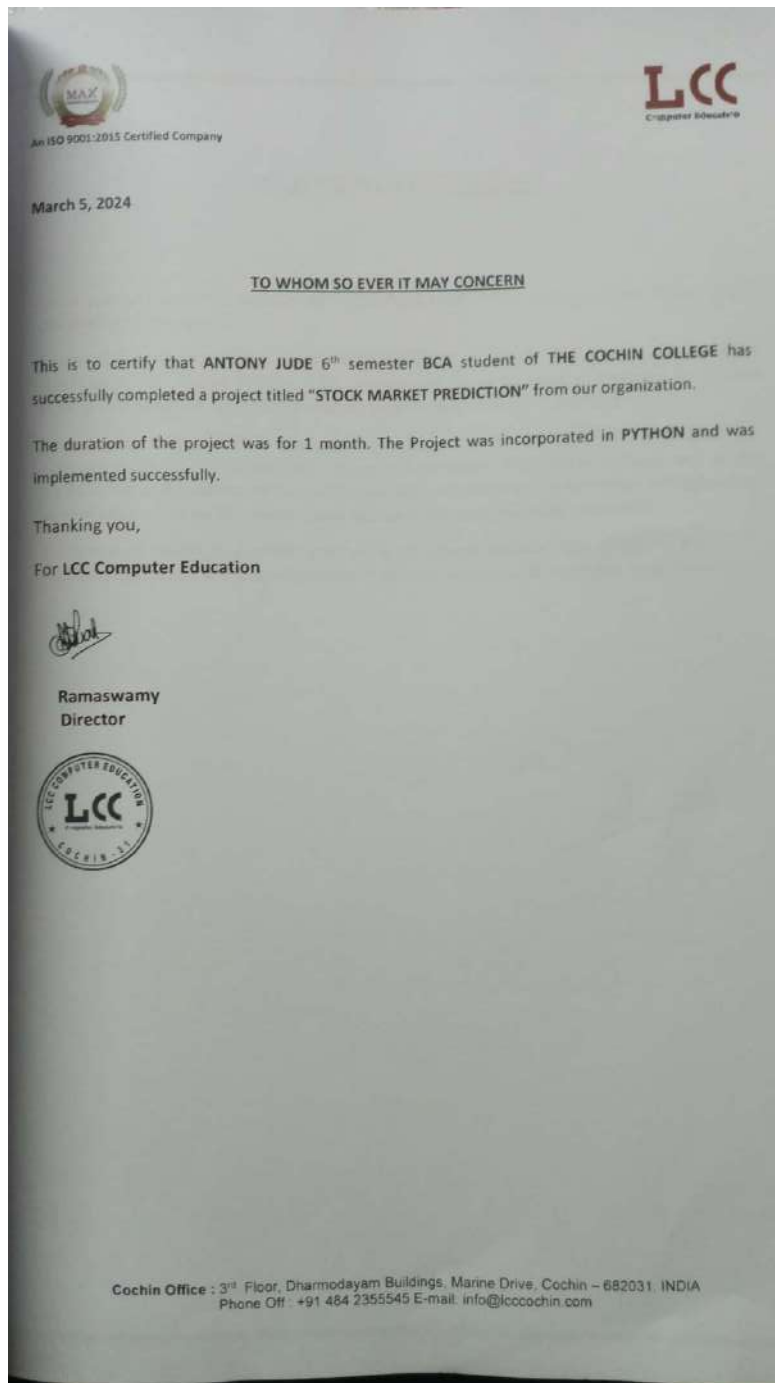
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On

"Food Aid"

Submitted by

Abishek Mohan
(210021090162)

In partial fulfillment for the award of the degree
of
Bachelor of Computer Application
of
Mahatma Gandhi University
Kottayam -686560



THE COCHIN COLLEGE

KOOVAPADAM-682002,ERNAKULAM
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "Food Aid" submitted by ABISHEK MOHAN (210021090162) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bona.fide work carried out by him during the academic year 2021-2024.

HRIDYA K.S
Project Guide

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on 17/04/2024 at The cochin college.

Internal Examiner

External Examiner
17/4/24





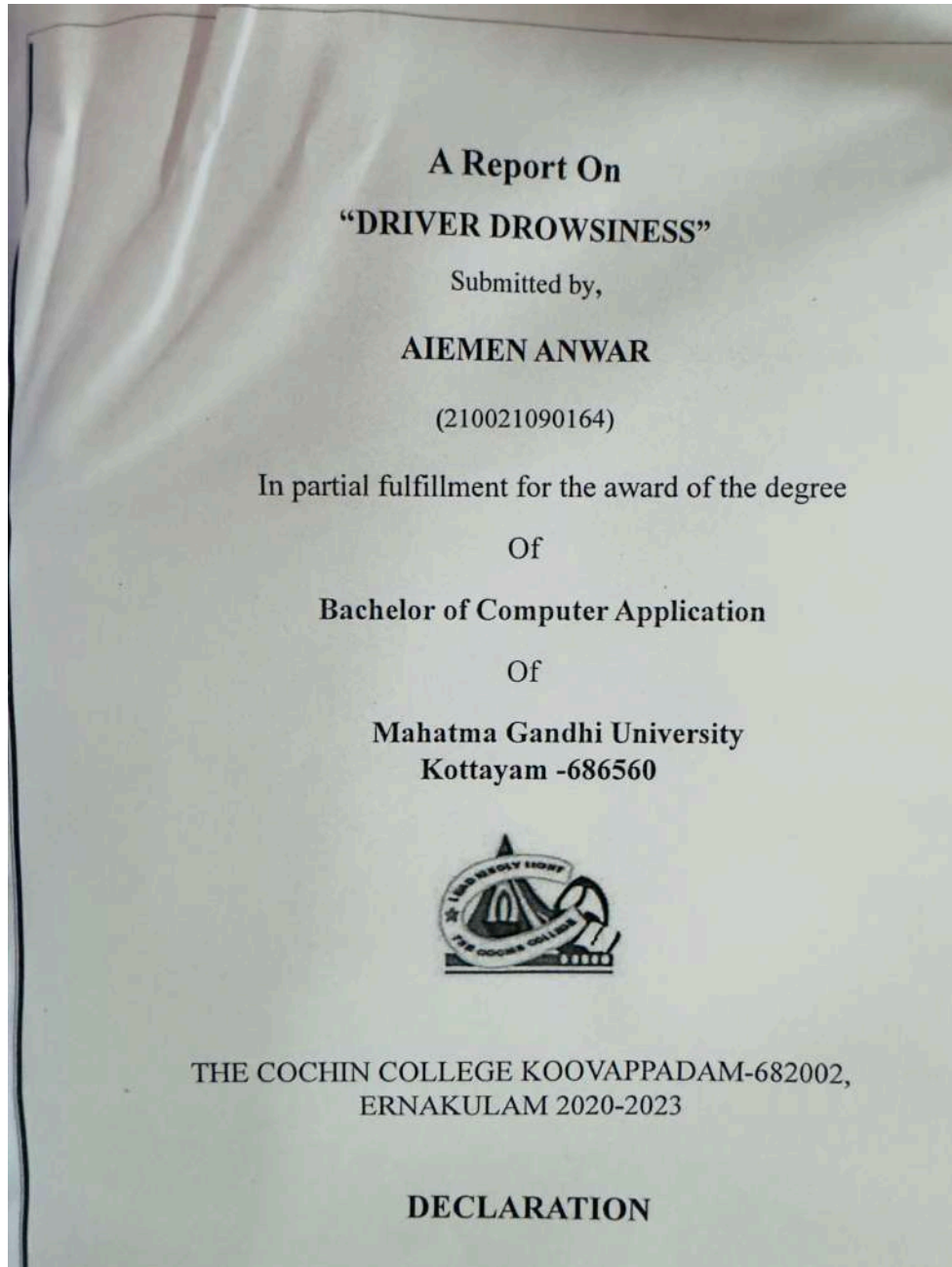
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

CERTIFICATE

This is to certify that the project report titled "DRIVER DROWSINESS" submitted by **AIEMEN ANWAR (210021090164)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024

KEERTHANA S
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on ...19-04-2024... at...COCHIN COLLEGE

Internal Examiner
Examiner


External
19/4/24



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

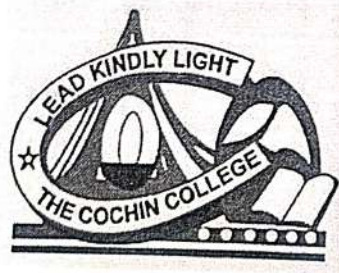
Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

A Report on
"ORGAN DONATION"

Submitted by,
AKHIL P A
(210021090170)

In partial fulfilment for the award of the degree
Of
Bachelor of Computer Application
Of
Mahatma Gandhi University
Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM-682002, ERNAKULAM
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE

KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "ORGAN DONATION" Submitted by **AKHIL P A (210021090170)** in partial fulfilment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of Bonafide work carried out by him during the academic year 2021-2024.

Anisha

ANISHA ANTONY V A
Project Guide

Keerthana S

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on 17/4/2024 at The Cochin College

Naany

Internal Examiner



Naany
17/4/24

External examiner





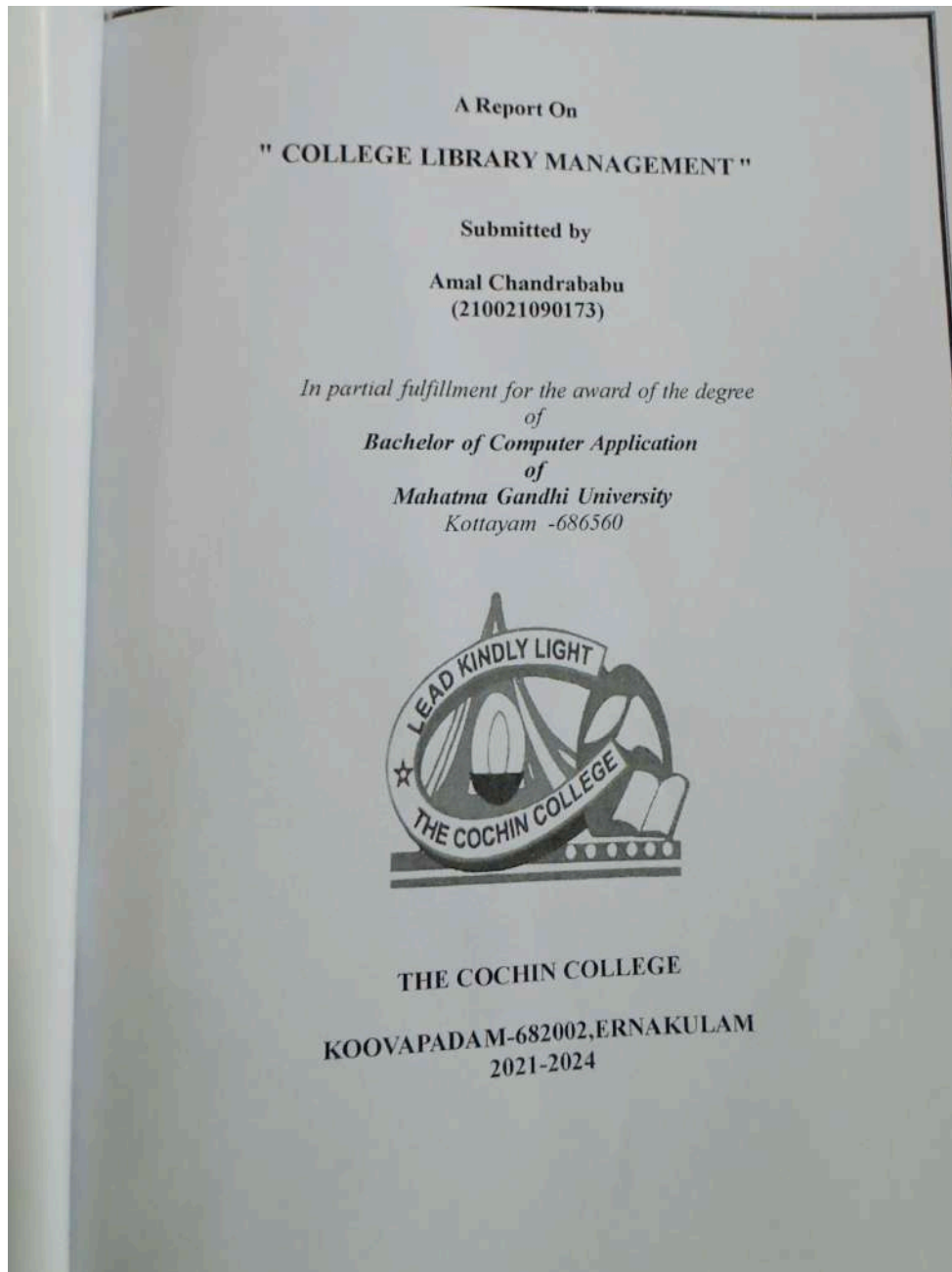
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "COLLEGE LIBRARY MANAGEMENT" submitted by AMALA CHANDRABABU(210021090173) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024.

AMALA MARY
Project Guide

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on 19-06-24 at THE COCHIN COLLEGE

Internal Examiner

External Examiner
19/6/24



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Moments Preserved

A Report On
"MOMENTS PRESERVED"

Submitted by,
AMAYA M
(210021090174)

In partial fulfillment for the award of the degree
Of
Bachelor of Computer Application
Of
Mahatma Gandhi University
Kottayam -686560



THE COCHIN COLLEGE
KOOVAPPADAM-682002, ERNAKULAM
2021-2024

The Cochin College

1

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thechochincollege.edu.in

email: email@thechochincollege.edu.in

Moments Preserved

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "MOMENTS PRESERVED" submitted by AMAYA M (210021090174) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by her during the academic year 2021-2024

KEERTHANA S
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner

The Cochin College

3

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report on
“AMUSEMENT PARK BOOKING”

Submitted by,
MOHAMMED ADNAN PH (210021090205)

In partial fulfilment for the award of degree
Of
Bachelor of Computer Applications
Of
Mahatma Gandhi University

Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM- 682002
2021-2024

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DECLARATION

I hereby declare that the report of the project work submitted to the Department of Computer Applications, The Cochin College, Koovapadam, in partial fulfilment of the award of the Degree of Computer Applications is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university.

I understand the detection of any such copying is liable to be punished in any way the college deems fit.

MOHAMMED ADNAN PH (210021090205)

Date:

Place:

THE COCHIN COLLEGE

KOOVAPADAM 682002



T

The Cochin college

2

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

CERTIFICATE

*This is to certify that the project report titled **AMUSEMENT PARK BOOKING** submitted by **MOHAMMED ADNAN PH (210021090205)**, in partial fulfilment of the award of the Degree Of Computer Applications and is record of bonafide work carried out by me in the academic year 2021-2024.*

AMALA MARY
PROJECT GUIDE

KEERTHANA SHYAM
HEAD OF THE DEPARTMENT

Submitted for the Viva-voce held on at

INTERNAL EXAMINER

EXTERNAL EXAMINER

T



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to God for keeping me fit for the successful completion of the project.

I convey my sincere thanks to Ms.KEERTHANA S. HOD, Department of Computer Application, The Cochin College, who provided me the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

I express my deep sense gratitude to my project guide, Ms. AMALA MARY, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout my project, without which the project could not have been accomplished successfully.

I also wish to extend my heartfelt gratitude to my parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.

T

The Cochin college

4

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

TABLE OF CONTENTS

No	Contents	Pg no
1	INTRODUCTION	7
1.1	Core Functionality	7
2	SYNOPSIS	6
3	SYSTEM ANALYSIS	8
3.1	Existing System	8
3.2	Proposed System	9
3.3	Feasibility	9
4	SYSTEM SPECIFICATION	11
4.1	Hardware Specification	14
4.2	System Configuration	14
5	SYSTEM DESIGN	15
6	DATA FLOW DIAGRAM	18
7	ER DIAGRAM	20
8	TABLE STRUCTURE	21
9	MODULE DESCRIPTION	22
10	SYSTEM TESTING	23
11	SYSTEM IMPLEMENTATION	27
12	SAMPLE SCREEN INPUTS	28
13	SOURCE CODE	30
14	CONCLUSION	34
14.1	Bibliography	34

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYNOPSIS

Dive into thrills and eliminate ticket booth hassles with our innovative amusement park booking project! This web-based platform empowers visitors to book tickets seamlessly, with options for single-day passes, season adventures, group outings, and more. Explore an interactive park map to navigate coasters, captivating shows, and family fun zones. Craft your ideal day by planning itineraries and checking real-time wait times for rides. Feeling peckish? Secure dining reservations or snag express passes for a VIP experience – all within the app. Meanwhile, park management unlocks a treasure trove of benefits. Our system offers real-time ticket and resource tracking, along with insightful data on visitor patterns and ride popularity. Craft targeted promotions, manage customer relationships, and generate comprehensive reports to optimize park operations and keep the thrills rolling!

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

INTRODUCTION

The Integrated Amusement Park Management System (IAPMS) represents a significant leap forward in the realm of amusement park management. In an era defined by rapid technological advancements and increasing customer expectations, the need for streamlined operations and exceptional visitor experiences has never been more pressing. Developed specifically for BCA students, IAPMS serves as a comprehensive software solution designed to revolutionize the way amusement parks are managed and operated. Amusement parks, with their myriad attractions and activities, stand as beacons of entertainment and excitement for people of all ages. However, behind the scenes, managing the intricate web of operations necessary to ensure a seamless and enjoyable experience for visitors poses significant challenges. Traditional methods of park management often rely on manual processes and disjointed systems, leading to inefficiencies, errors, and missed opportunities for improvement. In this context, the emergence of IAPMS heralds a new era of efficiency, effectiveness, and excellence in amusement park management. By harnessing the power of technology and innovation, IAPMS offers a comprehensive suite of modules catering to the diverse needs of users, staff, and administrators alike. Whether it's booking tickets, ordering food, coordinating guide support, or overseeing administrative tasks, IAPMS provides a centralized platform for streamlined operations and enhanced customer satisfaction. At its core, IAPMS is guided by the principle that seamless operation and exceptional customer experience are inseparable elements of successful amusement park management. In today's dynamic environment, where competition is fierce and expectations are high, the ability to deliver a memorable and hassle-free experience to visitors is the key to sustained success and growth. Moreover, IAPMS isn't just about optimizing current operations; it's also about providing valuable learning opportunities for BCA students. By engaging with IAPMS, students gain practical insights into system integration, database management, and effective communication across different user roles within the context of an amusement park. This hands-on experience equips them with invaluable skills and knowledge that will serve them well in their future careers in the field of technology and management. In summary, IAPMS represents a paradigm shift in amusement park management, offering a comprehensive and innovative solution to the challenges faced by modern park operators. With its user-centric design, seamless integration, and focus on efficiency and excellence, IAPMS is poised to redefine the standards of amusement park management and set new benchmarks for success in the industry.

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

SYSTEM ANALYSIS

1. System Description:

This project aims to develop a web-based application for amusement park ticketing and visitor management. The system will cater to two main user groups:

- **Visitors:** Individuals or groups planning an amusement park visit.
- **Park Management:** Staff responsible for managing ticket sales, park operations, and visitor experience.

2. Functional Requirements:

For Visitors:

- **Booking:** Ability to securely purchase tickets online for various options (single day, season passes, group tickets, etc.)
- **Park Exploration:** Interactive map to explore rides, shows, attractions, and amenities.
- **Itinerary Planning:** Tools to plan itineraries, check wait times for rides, and create personalized schedules.
- **Add-on Purchases:** Option to purchase additional services like express passes or dining reservations.
- **Account Management:** Secure user accounts for managing bookings, reviewing past visits, and storing preferences.

For Park Management:

- **Inventory Management:** Real-time tracking of ticket sales and resource availability.
- **Data Analytics:** Access to comprehensive data on visitor traffic, ride usage, and park trends.
- **Promotional Tools:** Ability to create and manage targeted promotions and discounts.
- **Customer Relationship Management (CRM):** Tools to manage customer interactions and feedback.
- **Reporting and Analytics:** Generate reports on sales, visitor demographics, and park operations.

3. Non-Functional Requirements:

- **Security:** Secure online transactions and user data protection.
- **Performance:** Fast loading times and efficient system response.
- **Scalability:** Ability to handle high volumes of users and transactions during peak periods.
- **Usability:** User-friendly interface with intuitive navigation for all user groups.
- **Accessibility:** Compliance with accessibility standards for users with disabilities.

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

4. Stakeholders:

- Amusement Park Management
- Park Visitors
- Software Developers
- System Administrators

5. Constraints:

- Budget limitations for development and implementation.
- Integration with existing park management systems.
- Security compliance regulations.

6. Analysis Techniques:

- User interviews and surveys to understand user needs and expectations.
- System prototyping to gather user feedback and refine functionalities.
- Data analysis of existing park operations and visitor trends.

By conducting a thorough system analysis, we can ensure the amusement park booking project meets the needs of all stakeholders, delivers a seamless user experience, and provides valuable data for optimizing park operations.

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FEASIBILITY

The feasibility of a Amusementpark booking system can be assessed across these key aspects:

1. **Technical Feasibility**
2. **Economic Feasibility**
3. **Operational Feasibility**
4. **Legal and Ethical Feasibility**
5. **Schedule Feasibility**
6. **Environmental Feasibility**
7. **Risk Analysis**

TECHNICAL FEASIBILITY

Assessment: Evaluate the technical requirements for implementing deepfake detection algorithms and integrating them into a Django web application.

Expertise: Ensure the availability of skilled developers with expertise in Django, machine learning, and relevant libraries (e.g., TensorFlow or PyTorch).

Data Availability: Confirm the availability of a diverse and representative dataset for training and testing the deepfake detection models.

ECONOMIC FEASIBILITY

Cost Estimation: Estimate the costs associated with development, including personnel, software, hardware, and potential external services.

ROI Analysis: Assess the potential return on investment (ROI) by considering factors such as user adoption, potential revenue streams, and the long-term value of the system

OPERATIONAL FEASIBILITY

User Acceptance: Gauge the willingness of users to adopt and utilize a deepfake detection platform.

Operational Workflow: Evaluate how the proposed system integrates into existing operations, considering user interfaces, user experience, and ease of use.

Training Requirements: Identify any training needs for end-users and administrators.

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

LEGAL AND ETHICAL FEASIBILITY

Privacy Compliance: Ensure the system adheres to privacy regulations and guidelines, protecting user data and maintaining compliance with legal standards.

Ethical Considerations: Assess the ethical implications of developing and deploying a deepfake detection system, considering potential biases and user consent.

SCHEDULE FEASIBILITY

Project Timeline: Develop a realistic project timeline that accounts for all phases, including planning, development, testing, and deployment.

Dependencies: Identify potential dependencies on external factors, such as data availability, third-party libraries, or regulatory approvals.

ENVIRONMENTAL FEASIBILITY

Resource Impact: Assess the environmental impact of the project, considering factors like energy consumption and hardware requirements.

Sustainability: Explore ways to make the project sustainable, both from a technical and environmental standpoint.

RISK ANALYSIS

Identification: Identify potential risks and challenges associated with the project, such as technical complexities, changes in regulatory landscape, or unforeseen market shifts.

Mitigation Strategies: Develop strategies to mitigate identified risks and contingencies to address unforeseen challenges

T





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM SPECIFICATION

1. System Architecture:

The system will likely be a web-based application accessible through a user-friendly website and potentially a mobile app. A secure backend database will store user information, ticket purchases, park data, and operational details.

- **Frontend:**
 - Visitor-facing interface for booking tickets, exploring the park, and managing accounts.
 - Park management console for managing tickets, promotions, reports, and user data.
- **Backend:**
 - Secure database to store user information, ticket details, park information, and operational data.
 - Server-side logic to process transactions, manage user accounts, and generate reports.
 - APIs (Application Programming Interfaces) to connect with external systems (e.g., payment gateways, park management systems).

2. Hardware Requirements:

- Reliable server infrastructure to handle user traffic and data storage needs.
- Secure firewalls and intrusion detection systems to protect sensitive data.

3. Software Requirements:

- Web server software (e.g., Apache, Nginx)
- Database management system (e.g., MySQL, PostgreSQL)
- Programming languages for development (e.g., Python, Java, PHP)
- Secure payment gateway integration
- Development tools and libraries for building the user interface and functionalities

4. System Interfaces:

- User interface for visitors and park management.
- API integrations for online payments, potentially existing park management software, and analytics tools.

5. Security Requirements:

- Secure user authentication and authorization procedures.
- Encryption of sensitive data (e.g., credit card information)
- Regular security audits and vulnerability assessments.
- Compliance with relevant data privacy regulations.

6. Performance Requirements:

The Cochin college

12

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

- Fast loading times for web pages and mobile app functions.
- Scalability to handle high volumes of users during peak periods.
- System monitoring tools to identify and address performance bottlenecks.

7. Non-Functional Requirements:

- User-friendly interface with intuitive navigation for all user groups.
- Accessibility features for users with disabilities.
- Responsive design for optimal viewing on different devices (desktop, mobile, tablets).
- Multilingual support (optional, depending on park target audience).

These specifications provide a high-level overview of the system's technical aspects. Specific details will be determined during the development process based on the chosen technologies and park's unique needs.

Hypertext Mark-up Language (HTML)

It is the standard mark-up language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Tags such as `` and `<input />` directly introduce content into the page. Other tags such as `<p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content.

Cascading Style Sheets (CSS)

It is a style sheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, Math or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SQLite3

SQLite 3 isn't directly relevant to the core functionality of Mindeye, which relies on Python's Django framework and AI image generation. However, there might be a few scenarios where SQLite 3 could be used in conjunction with Mindeye.

Lightweight Database Engine: SQLite 3 is a self-contained, serverless database management system. Unlike traditional database servers, it doesn't require separate software installation or a dedicated server process. The entire database is stored in a single file, making it very portable and easy to integrate into applications.

Simple Setup and Use: SQLite 3 is known for its ease of use. It has a relatively simple query language based on SQL (Structured Query Language) that allows you to store, retrieve, and manipulate data.

Limitations: While convenient for small-scale projects or prototyping, SQLite 3 has limitations. It's not ideal for very large datasets or high-performance applications that require complex queries or frequent data access by multiple users.

Windows 11

Windows 11 represents Microsoft's latest evolution in operating systems, offering a refined and modernized user experience. Its redesigned interface showcases a centered Start Menu and a revamped taskbar for a cleaner, more organized look. The new Snap Layouts and Snap Groups enhance multitasking, while the revamped Microsoft Store supports a curated selection of apps, including Android apps via the Amazon Appstore. Gamers benefit from features like Direct Storage for faster loading times and Auto HDR for improved visuals, alongside Xbox integration.

Improved productivity tools include virtual desktops, widgets for personalized information, and seamless Microsoft Teams integration. Security enhancements encompass Windows Hello improvements, robust security measures, and expanded hardware requirements for TPM 2.0 support. Accessibility, touch, pen, and voice input have also been refined, while performance optimizations ensure a smoother and more efficient user experience overall. Windows 11's Fluent Design System further unifies the visual experience, providing a cohesive and visually appealing interface across applications.

The Cochin college

14

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

HARDWARE SPECIFICATION

Selection of hardware configuration is very important task related to the software development. The processor should be powerful to handle all the operations. The hard disk should have the sufficient capacity to solve the database and the application.

SYSTEM CONFIGURATION

H/W SYSTEM CONFIGURATION

Processor	I5
RAM	8 GB (min)
SSD	20 GB
Key Board	Standard Windows Keyboard
Mouse	Two or Three Button Mouse
Monitor	LED

S/W SYSTEM CONFIGURATION

Operating System	Windows 10
Front End	HTML
Server-side Script	Python Django
Database	SQLite3





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM DESIGN

The term design describes the final system and the way in which it is developed. The system design is a solution, how to approach to the new system. This important phase is composed of several steps. An emphasis is on translating the performance requirements of our proposed system into design specification. Design goes through logical and physical stage of development. In the design phase the physical design producing the working system by defining a particular specification that helps to knowing exactly what the new system must do. The logical design determines the information flow into and of the system and require database. Design is a multistep process that focuses on data structure, software, architecture, procedural details, and interface between modules. The design process translates the requirements into the representation of the software. Computer software design changes continually because new methods, better analysis and broader understanding evolved. It provides the understanding and procedure details necessary for implementing the proposed system .an emphasis is on translating the performance requirement of our proposed system into design specification. Design goes through logical and physical stage. The system design is the last phase that indicate the final system and process of design phase. In the designed phase of maintenance management system, the database tables, input screens and output reports are designed. In table designing, redundancy is avoided. Design is the only way that we can accurately translate a system requirement into a software product. In our production management system, the all-input screens are designed as user friendly and understandable.

INPUT DESIGN

Input design is the link that ties the information system into the world of its users. The input design involves determining what the input is, how the data should be performed, how to validate data, how to minimize data entry and how to provide a multi user facility, inaccurate input data are the most common cause of errors in data processing. Errors entered by data entry operator can be controlled by input design. Input design is the process of converting user originated input to a computer-based format. Input data are collected and organized into groups of similar data. Once identified, appropriate input media are selected for processing





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

All the input data re validated in the order and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, then it is transferred to the appropriate table in the database. A form is designed to enter the details should be user friendlier so that authorized user with even less knowledge can enter the data. The form is designed using v b tools like command boxes, text boxes, labels, option buttons, combo boxes etc. System analyst decodes the following input design details,

OUTPUT DESIGN

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision making. The output design of this system includes various reports. output requirements are designed during system analysis. An application is successful only when it can provide efficient and effective reports.

The goal of the output design is to capture the output and get the data into a format suitable for the computer. It is very helpful to produce the clear, accurate and speedy information for end users.

A major form of the output is the harder copy from the pointer and screen reports. Printouts are designed around the output requirements of the user. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. Output of this project is provided in the form of reports created using crystal report tool.

DATABASE DESIGN

Database is a collection of interrelated data stores with minimum the overall objective in the development of the database technology has been to treat data as an organizational resource and has an integrated whole. Database management system allows data to be protected and organized separately from other resources. Database is an integrated collection of data. this is the difference between logical and physical data. The general objective is to make information access easy, quick, inexpensive and flexible for users.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

the database approach to system design places greater emphasis on the integration, integrity and independence of data. this involves the separation of logical and

Physical storage and vice versa. databases are normally implemented by using a package called dams.

PROCESS DESIGN

Process design represents the structure of data and program components that are required to build a computer-based system. It considered the architectural style that the system will take, the structure and properties of the components constitute the system, and the interrelationships that occur among all architectural components of a system. Although a software engineer can design both and architecture, the job is often allocated to specialist when large, complex system are to be built. A database or data warehouse designer creates data architecture for a system. The 'system architect 'select an appropriate architectural style for the requirements derived during system engineering and software requirement analysis. Architectural design begins with data design and proceeds to the derivation of one or more representations of the architectural structure of the system. An architecture model encompassing data architecture and program structure is created during architectural design. In addition, component properties and the process by which it is developed. It refers to technical specifications that will be applied in implementing the system. It includes the construction of program and program testing. The input to design phase is software requirement specification

Dad's, e-r diagrams and structured diagrams depending on analysis. The output will be design specification. System design involves designing from layouts for input and reports for output.

STRUCTURED DESIGN

Structured design deals with the data-flow in the system. It partitions a program into hierarchy of modules. The modules are organized in a top-down manner and the details will be at the bottom. The structured Design begins with a system specification that identifies inputs and outputs that described the functional of the Table.





THE COCHIN COLLEGE

KOCHI - 682 002

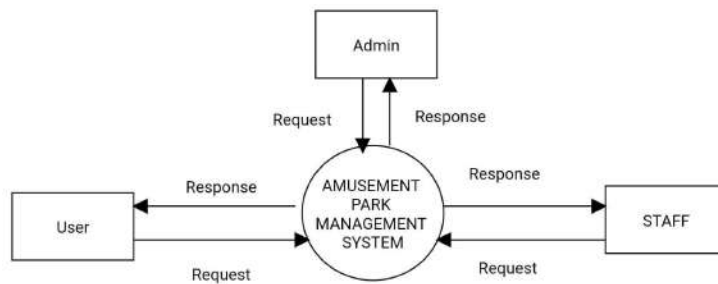
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DATA FLOW DIAGRAM (DFD)

LEVEL 0





THE COCHIN COLLEGE

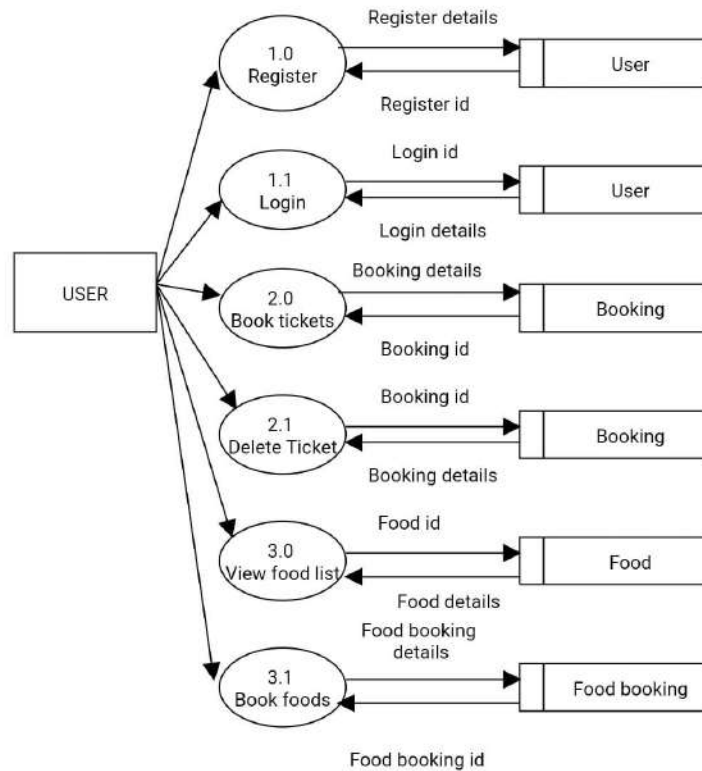
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

LEVEL 1 (USER)





THE COCHIN COLLEGE

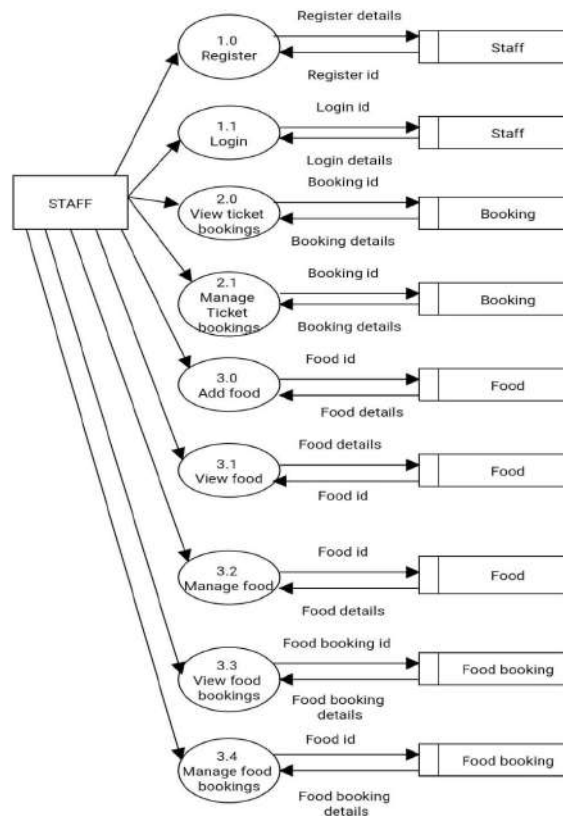
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

LEVEL 2 (STAFF)





THE COCHIN COLLEGE

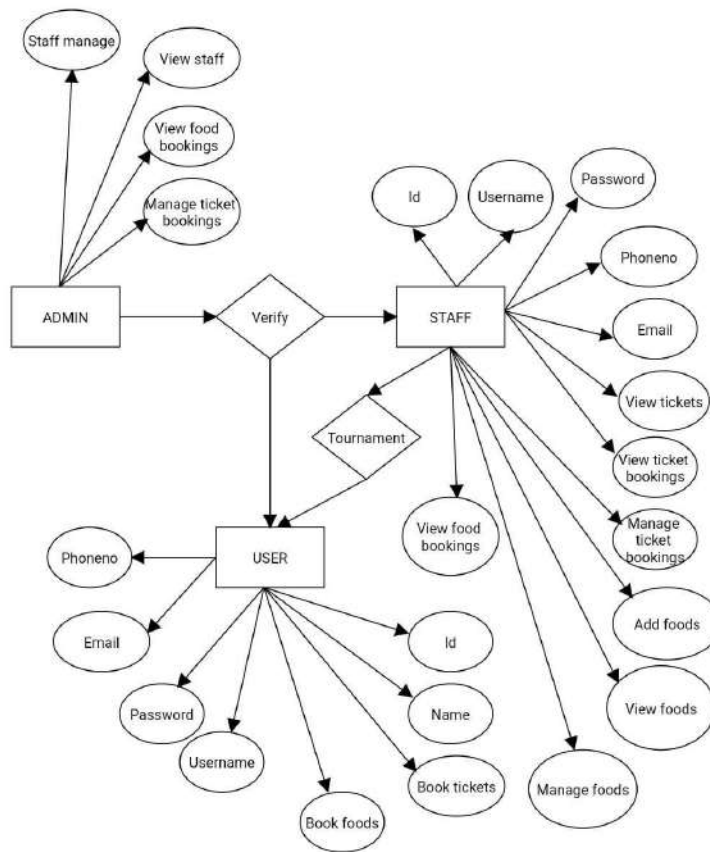
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

ER DIAGRAM





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

TABLE STRUCTURE

ADD STAFF FROM TABLE

Fieldname	Datatype	Constraints
staff_id	pk	Primary_key
user_id	integer	Foreign_key
address	string	Not Null
Phone number	integer	Not Null
Qualification	string	Not null

ADD BOOKING FROM TABLE

Fieldname	Datatype	Constraints
User	pk	Foreign_key
Name	String	Not Null
Address	String	Not Null
Date	integer	Not Null
Quantity	Integer	Not Null
Price	Integer	Not Null
Phone Number	Integer	Not Null
Status	String	Not Null





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

ADD FOODITEM FROM TABLE

Fieldname	Datatype	Constraints
Food id	pk	Primary_key
Booking id	fk	Foreign_key
Name	string	Not Null
Image	string	Not Null
Price	integer	Not Null
Quantity Available	integer	Not Null
Quantity Booked	integer	Not Null
Status	string	Not Null





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

MODULE DESCRIPTION

A module is a collection of source files and build settings that allow you to divide your project into discrete units of functionality. It enhances design clarity, which in turn eases implementation, debugging, testing, documenting, and maintenance of the software product.

There are 2 modules in this project:

1. Admin
2. Users

1. Admin:

- Login: Admin can login with email and password.
- View User Details: Admin can view the user details.
- View results: View user prompts and results.

2. User:

- Registration: Users need to register using their detail.
- Login: User can login after registration.
- Generation of image : Type prompts and generate an ai image.
- Download: Users can Download generated images





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM TESTING

Testing is an important phase in software development. After completion, the system may work without any problem. But there should be several unknown or hidden errors in the system still remaining. The error chances may be injected into the system at any stage of the development. Even if there are techniques to detect and eliminate the errors, some errors may remain in the system. So, after the completion of coding, the system is to be executed with the only purpose of detecting maximum number of errors. The tester executes the system, and inputs different types of values those may cause error or some exceptional situation in the system. The error locations detected through the testing are to be corrected in the system then. So, the important and the only aim of testing is to detect and cure even a less possible of an error that may face in the future executions of the system. Testing is a set of activity that can be planned in advance and conducted systematically. Testing begins at the module level and work towards the integration of entire computers-based system. Nothing is completed without testing, as it is vital to the success of the system. System testing makes a logical assumption that if all parts of the system are corrected, the goal will be successfully achieved. Inadequate testing or nontesting may lead to errors that may not appear until months later.

PURPOSE OF TESTING

Testing is the success of the system. System testing makes a logical assumption that if all part of the system is correct, the goal will be successfully achieved. The following points shows how testing is essential. Existence of program defects of inadequacies is inferred. Verifies whether the software behave as intended by its designer. Checks conformance with requirements specification or user need.

Access the operational reliability of the system. Test the performance of the system. The performance of the system. Reflects the frequencies of actual user inputs. Find the fault which caused the output anomal. Detect flaws and deficiencies in requirements. Exercise the program using data like the real data processed by the program. Test the system capabilities. Judges whether or not the program is usable in practice. Testing objectives There are several rules that can serve as testing objectives. They are; Testing is a process of executing a program with the intent of finding error. A good test case is





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

one that has high probability of finding an undiscovered error. A successful test is one that uncovers an undiscovered error.

If testing is conducted successfully according to the objectives as stated above, it would uncover errors in the software. Also testing demonstrates that software functions appear to be working according to the specifications, that performance requirements appear to have been met. These are three ways to test a program for correctness for implementation efficiency for computational complexity. Test for correctness is supported to verify that a program does exactly what it was designed to do. This is much difficult that it may at first appear especially for large programs.

Tests for implementation efficiency attempt to find ways to make a correct program faster or use less storage. It is a code-refining process, which reexamines the implementation phase algorithm development. Tests for computational complexity amount to an experiment analysis of the complexity of an algorithm or an experiment comparison of two or more algorithms, which solve the same problem.

TYPES OF TESTING

System testing is the stage of implementation, which is aimed at ensuring that the system works accurately and efficiently before live operation commences. Testing is vital to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct. The goal will be successfully achieving. The candidate system is subject to a variety of tests. A series of tests are performed for the proposed system is ready for system acceptance testing. The various levels at which testing are conducted are,

- Unit testing
- Integration testing
- Sequential testing
- System testing
- Validation testing unit testing





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

UNIT TESTING

In unit testing each program unit is tested individually, so any errors in a unit are debugged. Sample data is given for unit testing. The unit test results are recorded for future references. Unit testing focuses verification efforts on the smallest unit of software design, the module. This is known as "module testing". It comprises of the set test performed by an individual programmer prior to the integration of unit into the large system. The modules are tested separately, this testing is carried out programming stage itself.

In this step each module is found to be working satisfactory as regard to the expected output from module. The unit testing was done for every module in the software for various inputs, such that each line of code is at least once executed.

INTEGRATION TESTING

Integration testing is a systematic technique for constructing the program structure while at the same time conducting test to uncover errors associated with interfacing.

PROGRAM TESTING

Program testing checks for two types of errors; syntax and logic. A syntax error is a program statement that violates one or more rules of the language in which it is written. A logic error deals with incorrect data fields. When a program is tested, the actual output is compared with the expected output. All the modules are combined and tested as a whole. Here correction is difficult because the vast expenses of all errors uncovered are correct for the next testing steps. We follow bottom-up integration. Bottom-up integration testing as its name implies begins construction and begins with atomic modules. Because components are integrated from the bottom up, accessing required for the components subordinate to a given level is always available and need for stubs is eliminated.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SEQUENTIAL TESTING

Sequential or series testing is checking the logic of one or more programs in the candidate system, where the output of one program will affect the processing done by another program.

SYSTEM TESTING

System testing executing a program to check logic changes made in it and with the intension of finding errors-making the program fails. Effective testing does not guaranty reliability is a design consideration. This testing actually consists of a series of different test whose primary purpose is to fully exercise the computer based system.it begins where integration testing is completed and finally software is completely assembled as package, interfacing errors are uncovered and corrected.

ACCEPTANCE TESTING

Acceptance testing is running the system with live data by the actual user. An acceptance test has the objective of selling the user in the validity and reliability of the system. A comprehensive test report is prepared. The report indicates the system's tolerance, performance range, error rate and accuracy. It verifies the system procedures operate to system specification and the integrity of important data is maintained, performance of an acceptance test is actually the users show. User motivation is very important for the successful performance of the system. After that a comprehensive test report is prepared. This report shows the systems tolerance, performance range, error rate and accuracy.

INPUT TESTING

Here system is tested with all verifiable combination of input. User may type data in situations like entering password, numerical details etc. The system is tested with all the causes and it responded with appropriate error message.

OUTPUT TESTING

Here the output is tested to view where the screen is what which is desired. It is also checked whether it is to the satisfaction of the user. Changes that need to be done can be done after the result is seen.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

SYSTEM IMPLEMENTATION

A crucial phase in the system life cycle is the successful implementation of the new system design. Implementation involves creating computer compatible files, training the operating staff, installing hardware, terminals. In the system implementation, user training is crucial for minimizing resistance to change and giving the new system a chance to prove its worth. The objectives of the system implementation are to put the system into operation while holding costs, risks and personal irritation to minimum. Once the physical system has been designed in details, the next stage is to run the design into a working system and then to monitor the operation of the system to ensure that it continues to work efficiently and the operation of the system to ensure that it continues to work efficiently and effectively. The implementation stage of a is often very complex and time consuming because many more people are involved than in the earlier stages. The system implementation took place through various stages as follows,

- Implantation planning.
- Education and training.
- System testing.
- System implementation.
- Change over.

The implementation plan includes a description of all the activities that must occur to implement the new system and to put it into operation. To achieve the objectives and benefits from computer-based system, it is essential for the people who will be confident of their role in the new jobs. After software is developed to meet user's requirements, users test it for acceptance. The changes over phase are used to provide adaptability for the new system.





THE COCHIN COLLEGE

KOCHI - 682 002

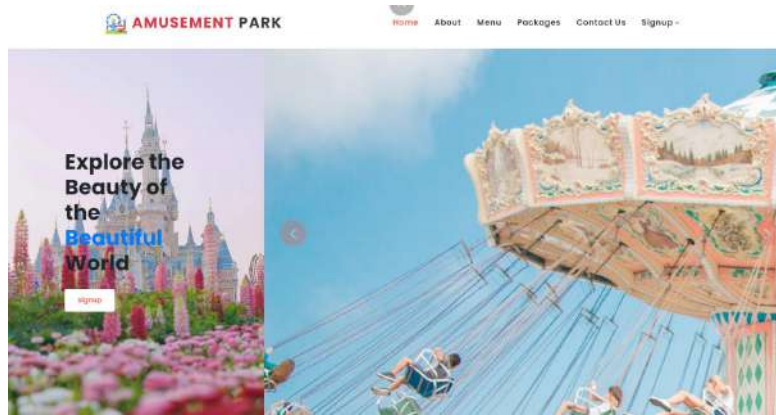
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SAMPLE SCREEN INPUTS

Home page



Login page



Mendula Menon
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

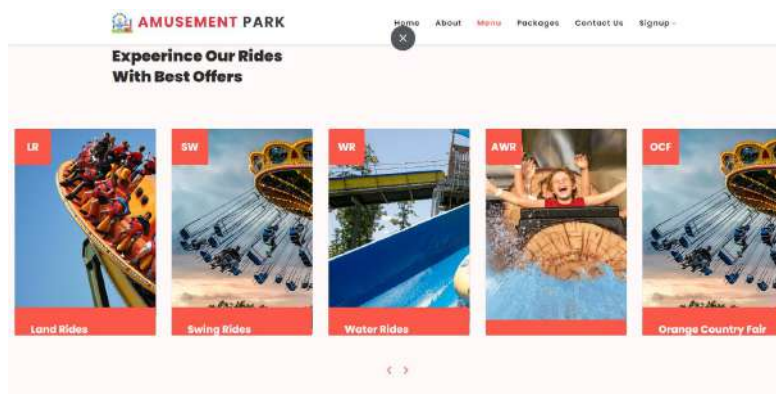
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

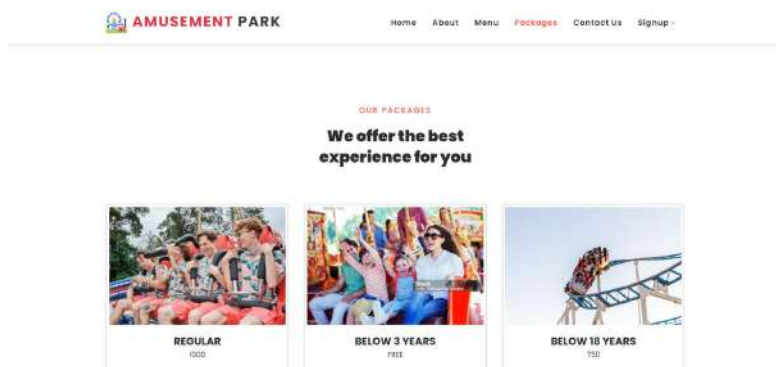
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Menu page



packages page



Mrudula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SOURCE CODE

views.py

```

    Index.html

{%load static% }

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<meta name="description" content="">

<meta name="author" content="">

<link rel="icon" href="/static/images/amusement-park_4949156.png">

<link

href="https://fonts.googleapis.com/css?family=Poppins:100,200,300,400,500,600,700,800,900&displ

ay=swap"

rel="stylesheet">

<link

href="https://fonts.googleapis.com/css2?family=Dancing+Script:wght@400;500;600;700&displa

y=swap"

rel="stylesheet">

<title>amusement park</title>

<!-- Additional CSS Files -->

<link rel="stylesheet" type="text/css" href="{% static 'css/bootstrap.min.css' %}">

<link rel="stylesheet" type="text/css" href="{% static 'css/font-awesome.css' %}">

```

The Cochin college

33

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

```

<link rel="stylesheet" href="{% static 'css/templatemo-klassy-cafe.css' %}">
<link rel="stylesheet" href="{% static 'css/owl-carousel.css' %}">
<link rel="stylesheet" href="{% static 'css/lightbox.css' %}">
</head>
<body>
<!-- ***** Preloader Start ***** -->
<div id="preloader">
<div class="jumper">
<div></div>
<div></div>
<div></div>
</div>
</div>
<!-- ***** Preloader End ***** -->
alias amet repudiandae.

Incidunt, vel facere? Impedit ipsam, facilis pariatur perferendis
ut natus quisquam non
nobis cupiditate porro inventore repellat repudiandae?</p>
<div class="row">
<div class="col-4">

</div>
<div class="col-4">

</div>

```

The Cochin college

34

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

```

<div class="col-4">

</div>
</div>
</div>
</div>
</div>
<div class="col-lg-6 col-md-6 co
<h6>Our Rides</h6>
<h2>Expeerince Our Rides With Best Offers</h2>
</div>
</div>
</div>
</div>
<div class="menu-item-carousel">
<div class="col-lg-12">
<div class="owl-menu-item owl-carousel">
<div class="item">
<div class='card card1'>
<div class="price">
<h6>RC</h6>
</div>
<div class='info'>
<h1 class='title'>Rollar Coaster</h1>
<p class='description'>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sedii do
eiusmod teme.</p>

```

The Cochin college

35

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

CONCLUSION

In conclusion, the Integrated Amusement Park Management System(IAPMS) represents a significant advancement in the management of amusement parks. By leveraging technology and innovation, IAPMS offers a modern and efficient solution to streamline park operations and enhance the overall visitor experience. Through automation and centralized control, IAPMS simplifies tasks such as ticketing, food ordering, guide support, and administrative functions. This not only benefits users by providing a seamless and enjoyable experience but also facilitates efficient operations and oversight for park staff and administrators. Moreover, IAPMS serves as a valuable learning tool for BCA students, offering practical insights into system integration and effective management within the context of an amusement park environment. By engaging with IAPMS, students gain hands-on experience and develop skills that are invaluable for their future careers in technology and management. Overall, IAPMS sets new standards for excellence in amusement park management, revolutionizing the industry and paving the way for enhanced efficiency, customer satisfaction, and learning opportunities. As amusement parks continue to evolve, IAPMS stands as a beacon of innovation, driving positive change and delivering exceptional experiences to visitors worldwide.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

BIBLIOGRAPHY

1. <https://www.w3schools.com/>
2. <https://stackoverflow.com/>





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report on
"STOCK MARKETING PREDICTION"

Submitted by,
ANTONY JUDE
(210021090177)

In partial fulfillment for the award of the degree
OF
Bachelor of Computer Application
Of
Mahatma Gandhi University
Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM-682002, ERNAKULAM
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

THE COCHIN COLLEGE

KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "STOCK MARKET PREDICTION" Submitted by ANTONY JUDE (210021090177) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of Bonafide work carried out by him during the academic year 2021-2024.

ANISHA ANTONY V A
Project Guide

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on 17-04-2024 at Cochin college

Internal Examiner


External Examiner
17/4/24



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

A Report On

“AUCTION MANAGEMENT”

Submitted by,

MUHAMMED JASIR P.M

(210021090207)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

**Mahatma Gandhi University
Kottayam -686560**



THE COCHIN COLLEGE KOOVAPPADAM-682002,
ERNAKULAM 2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

MUHAMMED JASIR P.M (210021090207)

Date:

Place:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

THE COCHIN COLLEGE

KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "AUCTION MANAGEMNT" submitted by **MUHAMMED JASIR P.M (210021090207)**, in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024

SHINDA VARGHEESE
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner



Mendula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

AKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

We convey our sincere thanks to **Ms. KEERTHANA S**, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

We express our deep sense gratitude to our project guide, **Ms. SHINDA VARGHEESE**, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout our project, without which the project could not have been accomplished successfully.

We also wish to extend our heartfelt gratitude to our parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

SYNOPSIS

Welcome to Auction Management, it is designed to streamline the auctioning process by offering a user-friendly interface for both buyers and sellers. Leveraging Python, the application facilitates real-time bidding, reducing the complexities associated with traditional auction systems. The focus is on creating an efficient, accessible, and secure platform for various auction needs. The primary objective of the Auction Application is to provide a centralized platform for conducting auctions. Sellers can list their items, and buyers can participate in real-time bidding, creating a transparent and competitive auction environment. The application aims to simplify the auction process, making it accessible to a wide range of users. The scope of the Auction Application encompasses various auction scenarios, including online product auctions, art auctions, and more. The platform caters to both individual sellers and businesses looking for a reliable and efficient auction solution. The application's scope extends to providing a secure and user-friendly environment for all participants.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

TABLE OF CONTENTS

SL NO.	TITLE	PAGE NO
1	INTRODUCTION	8
1.1	Overview of the Object	8
1.2	Objectives of the Project	8
1.3	Scope of the Project	
2	SYSTEM ANALYSIS	9
2.1.1	Existing System	9
2.1.2	Proposal System	10
2.2	Module Description	10
2.3	FEASIBILITY STUDY	11
2.3.1	Economical Feasibility	11
2.3.2	Technical Feasibility	11
2.3.3	Operational Feasibility	12
2.4	SYSTEM SPECIFICATION	12
2.4.1	Hardware Specification	12
2.4.2	Software Specification	13
3	SYSTEM DESIGN	18
3.1	Introduction	18
3.2	Input and Output Design	18
3.3	Dataflow Diagram(DFD)	19
3.4	Er Diagram(ER)	25
3.5	Table Description	25





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

4	SYSTEM TESTING	27
4.1	Introduction	27
5	SYSTEM IMPLEMENTATION	29
5.1	INTRODUCTION	29
5.2	SCREENSHOTS	29
5.3	SOURCE CODE	33
6	CONCLUSION	44
7	REFERENCES	45





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

1. INTRODUCTION

1.1 OVERVIEW OF THE PROJECT

The Auction Application is designed to streamline the auctioning process by offering a user-friendly interface for both buyers and sellers. Leveraging Python, the application facilitates real-time bidding, reducing the complexities associated with traditional auction systems. The focus is on creating an efficient, accessible, and secure platform for various auction needs. The primary objective of the Auction Application is to provide a centralized platform for conducting auctions. Sellers can list their items, and buyers can participate in real-time bidding, creating a transparent and competitive auction environment. The application aims to simplify the auction process, making it accessible to a wide range of users. The scope of the Auction Application encompasses various auction scenarios, including online product auctions, art auctions, and more. The platform caters to both individual sellers and businesses looking for a reliable and efficient auction solution. The application's scope extends to providing a secure and user-friendly environment for all participants.

1.2 OBJECTIVES OF THE PROJECT

. The primary objective of the Auction Application is to provide a centralized platform for conducting auctions. Sellers can list their items, and buyers can participate in real-time bidding, creating a transparent and competitive auction environment. The application aims to simplify the auction process, making it accessible to a wide range of users. The scope of the Auction Application encompasses various auction scenarios, including online product auctions, art auctions, and more. The platform caters to both individual sellers and businesses looking for a reliable and efficient auction solution. The application's scope extends to providing a secure and user-friendly environment for all participants.

1.3 SCOPE OF THE PROJECT

The scope of the Auction Application encompasses various auction scenarios, including online product auctions, art auctions, and more. The platform caters to both individual sellers and businesses looking for a reliable and efficient auction solution. The application's scope extends to providing a secure and user-friendly environment for all participants.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

2.SYSTEM ANALYSIS

2.1.1 EXISTING SYSTEM

- **User Authentication and Authorization:** The system should have robust user authentication mechanisms to ensure secure access for buyers and sellers. This includes features like user registration, login, and role-based access control.
- **Listing Management:** Sellers should be able to create listings for their items, including detailed descriptions, images, starting bid prices, and auction durations. The system should support various types of auctions, such as English auctions (ascending bid), Dutch auctions (descending price), or sealed-bid auctions.
- **Real-Time Bidding:** The system needs to facilitate real-time bidding, updating bid prices dynamically and notifying users of new bids. It should handle bid increments, automatic bidding (proxy bidding), and enforce auction rules to ensure fair competition.
- **Transaction Processing:** Upon auction completion, the system should handle payment processing securely. It should support various payment methods and integrate with payment gateways to facilitate transactions between buyers and sellers.
- **Messaging and Notifications:** The system should provide communication channels for buyers and sellers to ask questions, negotiate terms, and receive notifications about auction status updates, such as outbid notifications or auction end alerts.
- **Reporting and Analytics:** Sellers should have access to reports and analytics to track their auctions' performance, including bid history, final sale prices, and buyer demographics. This data can help sellers make informed decisions about future listings.
- **Security Measures:** The system must implement security measures to protect user data, prevent unauthorized access, and mitigate risks such as fraud or data breaches. This includes encryption of sensitive information, secure authentication protocols, and regular security audits.
- **Scalability and Performance:** The system should be able to handle a large number of concurrent users and transactions without experiencing performance issues. Scalability measures such as load balancing and database optimization may be necessary to ensure smooth operation during peak usage periods.
- **Regulatory Compliance:** The system should comply with relevant laws and regulations governing online auctions, data privacy, and consumer protection. This includes providing clear terms of service, privacy policies, and adhering to industry standards for secure payment processing.
- **Customer Support and Help Resources:** The system should offer customer support channels and help resources to assist users with any questions, issues, or technical difficulties they may encounter while using the platform.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

2.1.2 PROPOSED SYSTEM

- Dual Role Accounts: Allow users to register accounts with both buyer and seller roles. This enables individuals or businesses to participate in auctions as both buyers and sellers.
- Listing Creation for Buyers: Enable buyers to create listings for items they wish to sell. This includes providing item details, images, starting prices, and auction durations, similar to the seller listing creation process.
- Bid Management for Buyers/Sellers: Buyers who are also sellers should be able to place bids on items listed by other sellers, as well as manage bids on items listed by themselves. Sellers who are also buyers should have the ability to monitor bidding activity on their listings and adjust their bids accordingly.
- Transaction Handling: When a buyer who is also a seller wins an auction, the system should facilitate the transaction process seamlessly. This may involve handling payment processing, shipping arrangements, and order fulfillment for items sold by the buyer
- Messaging and Negotiation: Buyers/sellers should have communication channels to interact with other users, whether they are bidding on items or negotiating terms of sale for items they have listed. This includes messaging features and negotiation tools to facilitate communication between parties.

2.2 MODULE DISCRPTION

- Admin:
 - Register
 - Login
 - manage seller
 - Manage buyer
 - Manage listing
 - Manage bid
- Seller:
 - Register
 - Login
 - View, update and add profile
 - Create listing
 - Close bid
- Buyer:
 - Register
 - Login
 - Add, view and update profile
 - View listing
 - Can bid
 - View and add comments
 - Add and view watchlist





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

2.3 FEASIBILITY STUDY

Feasibility study is an analysis of the ability to complete a project successfully, taking into account legal, economical, technological, scheduling and other factors, rather than just diving into a project and hoping for the best. A feasibility study allows project managers to investigate the possible negative and positive outcomes of a project before investing too much time and money. Therefore in short feasibility study can be defined as an assessment of the practicality of a proposed plan or method.

There are three aspects in the feasibility study portion of the preliminary investigation.

- Economic feasibility
- Technical feasibility
- Operational feasibility

2.3.1 ECONOMICAL FEASIBILITY

- Cost Analysis: Estimate the development, maintenance, and operational costs of the application, including server hosting, software licenses, and personnel.
- Revenue Model: Determine potential revenue streams, such as transaction fees, premium listing charges, or subscription plans for sellers.
- Market Analysis: Assess the demand for an auction platform in various industries and geographical regions. Identify competitors and analyze their pricing strategies and market share.

2.3.2 TECHNICAL FEASIBILITY

- Software Development: Assess the feasibility of developing the application using Python and any additional technologies required for real-time bidding and secure transactions.
- Scalability: Determine if the application can handle a large number of users and transactions without compromising performance.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

- Security: Evaluate the security measures needed to protect user data, prevent fraud, and ensure secure transactions.
- Integration: Check if the application can integrate with existing systems or APIs for payment processing, inventory management, etc.

2.3.3 OPERATIONAL FEASIBILITY

- User Experience: Evaluate the user interface and experience to ensure it's intuitive and easy to use for both buyers and sellers.
- Support and Maintenance: Determine the resources needed to provide ongoing support, maintenance, and updates for the application.
- Regulatory Compliance: Ensure compliance with relevant laws and regulations governing online auctions, data protection, and consumer rights.

2.4 SYSTEM SPECIFICATION

To develop this system, it requires hardware as well as software support. The recommended specification is the following configuration.

- Language used: Python Django
- Database: My SQL
- User interface design: JS, CSS

2.4.1 HARDWARE SPECIFICATION

Development Configuration – Client Machine

Processor	:	i3 Processor Based Computer
Operation System	:	Windows 7 or higher
Ram	:	1 GB RAM 50 GB
Hardware Devices	:	Keyboard with Mouse
Hard Disk Drive	:	50 GB
Display	:	Standard Output Display





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

Development Configuration – Server Machine

Processor	:	i3 Processor Based Computer or higher
Operation System	:	Windows 10
Ram	:	1 GB RAM
Hardware Devices	:	Keyboard with Mouse
Hard Disk Drive	:	40 GB
Display	:	Standard Output Display

2.4.2 SOFTWARE SPECIFICATION

One of the most difficult task is selecting software for the system, once the system requirements is found out then we have to determine whether a particular software package fits for those system requirements. The application requirement:

- Front end : HTML(web), XML(android)
- Language : Python
- Back end : MySQL
- Operating system : windows 7 or above
- IDE : Pycharm , Android studio

We require much different software to make the application which is in making to matchmaking efficiently. It is very important to select the appropriate software so that the software loans properly. Below is the software that are required to make the new system.

Windows
My SQL
HTML
JavaScript
Python Django

WINDOWS 10 22H2





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

Windows 10 22H2 is a feature update for the Windows 10 operating system that was released in late 2021. It is the second major update to Windows 10 in 2021, and it includes several new features and improvements. One of the main features of Windows 10 22H2 is the ability to use the new Windows 11-style Start menu. This new Start menu features a more streamlined design and is easier to navigate than the previous Start menu. Another key feature of Windows 10 22H2 is improved performance and battery life. Microsoft has made several optimizations to the operating system that should help it run more smoothly and use less battery power. Other notable features of Windows 10 22H2 include improvements to the File Explorer, better support for multiple monitors, and enhanced security features. Additionally, Microsoft has made several small changes to the operating system's interface, including tweaks to the taskbar, notifications, and settings menus. Overall, Windows 10 22H2 is a significant update to the Windows 10 operating system that should improve performance, add new features, and enhance the user experience.

MYSQL

A database is a collection of information that's related to a particular subject or purpose, such as tracking client orders or maintaining a list of project details. If the database isn't stored on a computer, or only part of it are one may be tracking information from a variety of sources that one is having to co-ordinate and organize himself using MySQL Server, one can manage all information from a single database file. Within the file, data is divided into separate storage containers called tables; view, add and update data by using online forms; find and retrieve just the data wanted for reports. MySQL Server allows the user to view, update or analyse the database from the Internet or an intranet by creating data access pages. MySQL Server as a relational database stores data in many related tables. A table is a collection of data about a specific topic such as projects or clients. Using a separate table for each topic means that, store that data only once. This makes the database more efficient and reduces data-entry errors. Tables organize data into columns (called fields) and rows (called records). A common field relates two tables so that MySQL Server can bring together the data from the two tables for viewing, editing, or printing. In table Design view one can create an entire table from scratch or add, delete or customize the fields in an existing table. The user can also display records from tables that are related to the current table by displaying sub datasheets within the main datasheet. With some restrictions, the user can work with the data in sub datasheets





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

in many of the same ways that they work with data in the main datasheet. To store data, create one table for each type of information that is to be tracked. To bring the data from multiple tables together in a query, form, report, or data MySQL Server page, define relationships between the tables.

HTML

HTML, which stands for Hypertext Mark-up Language, is a standard mark-up language used to create web pages and web applications. It provides a way to structure content on the internet, allowing web browsers to interpret and display the content to users. HTML uses a series of mark-up tags, which are enclosed in angle brackets (< >), to define elements that make up a web page. These elements can include headings, paragraphs, images, links, lists, tables, forms, and more. HTML tags are used to mark up the content and structure it in a hierarchical manner, creating a tree-like structure called the Document Object Model (DOM). HTML documents typically start with a <!DOCTYPE> declaration, which specifies the version of HTML being used. This is followed by the <html> element, which serves as the root element of an HTML document. Inside the <html> element, there are usually two main sections: the <head> section and the <body> section. The <head> section is used to provide meta-information about the HTML document, such as the title of the web page, which appears in the browser's title bar or tab. It may also include other meta tags for SEO (Search Engine Optimization), character encoding, and linking to external CSS (Cascading Style Sheets) or JavaScript files. The <body> section is where the main content of the web page is placed. It contains various HTML elements, such as headings (<h1>, <h2>, etc.), paragraphs (<p>), images (), links (<a>), lists (, ,), tables (<table>, <tr>, <td>), forms (<form>, <input>, <button>), and more. These elements are used to structure and format the content, making it visually appealing and interactive for users. HTML is often used in conjunction with other technologies like CSS and JavaScript. CSS is used to control the presentation and layout of HTML elements, allowing web designers to apply styles such as colors, fonts, spacing, and positioning. JavaScript is a programming language that can be embedded in HTML documents to add interactivity, dynamic content, and other functionalities to web pages. Once an HTML document is created, it can be viewed in a web browser, which interprets the HTML Mark-up and displays the content according to the defined structure and styles. HTML is a fundamental technology for building websites and web applications, and understanding its syntax and concepts is essential for web developers and designers.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

JAVASCRIPT

JavaScript is a popular programming language that allows developers to add interactivity, dynamic content, and other functionalities to web pages. It is often used in conjunction with HTML and CSS to create dynamic and interactive web experiences. JavaScript is a client-side scripting language, which means it runs directly in the web browser of the user, enabling it to interact with the Document Object Model (DOM) of a web page, modify its content, and respond to user events like clicks and keystrokes. JavaScript can also make requests to web servers and interact with APIs (Application Programming Interfaces) to fetch and manipulate data, enabling the creation of dynamic and data-driven web applications. JavaScript syntax is similar to other programming languages, such as C, C++, and Java, making it relatively easy to learn for developers familiar with those languages. It supports a wide range of programming concepts, including variables, data types, operators, control flow statements (e.g., if statements, loops), functions, objects, and more. JavaScript has a large and active community of developers, which has resulted in a rich ecosystem of libraries, frameworks, and tools that extend its capabilities and simplify web development tasks. Popular JavaScript libraries and frameworks include jQuery, React, Angular, Vue.js, and Node.js, among others. JavaScript is supported by all modern web browsers, making it a cross-platform language that can be used to create web applications that run on different devices and platforms.

However, it's important to consider security best practices when using JavaScript, as it can potentially introduce vulnerabilities if not used carefully, such as cross-site scripting (XSS) attacks.

PYTHON DJANGO

Django is a high-level, open-source Python web framework that makes it easier for developers to build robust, scalable, and maintainable web applications. It follows the model-view-controller (MVC) architectural pattern, which separates the logic for handling data (model), rendering views (view), and processing user requests (controller) into distinct components. Django provides a rich set of built-in features and tools that streamline the development process and promote good coding practices.

Some key features of Django include:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

Object-Relational Mapping (ORM): Django's ORM allows developers to define their application's data models as Python classes, which are then automatically mapped to the underlying database tables. This makes it easy to work with databases without writing raw SQL queries.

URL routing and view handling: Django provides a flexible URL routing system that allows developers to define URL patterns and associate them with views, which are Python functions that handle HTTP requests and generate HTTP responses. This makes it easy to define the logic for processing different URLs and handling user requests.

Templating engine: Django includes a powerful templating engine that allows developers to separate the presentation logic from the business logic. This allows for clean separation of concerns and promotes code reusability.

Authentication and authorization: Django provide built-in support for user authentication and authorization, making it easy to implement secure user authentication and access control in web applications.

Admin interface: Django includes a built-in admin interface that provides a powerful and customizable web-based interface for managing application data, making it easy to perform CRUD (Create, Read, Update, Delete) operations on application data.

Middleware support: Django allows developers to write middleware, which are components that can process requests and responses globally across the application. This provides hooks for adding additional functionality, such as authentication, caching, and error handling, at a high level in the application stack.

Internationalization and localization: Django have built-in support for handling internationalization and localization of web applications, making it easy to create applications that can be translated into different languages.

Testing: Django has robust testing support, including built-in testing tools and a testing framework, which makes it easy to write unit tests and integration tests for web applications.

Django has a large and active community of developers, which has resulted in a rich ecosystem of third-party packages and plugins that extend its functionality. Django is widely used by web developers for building a wide range of web applications, from simple websites to complex web applications, including social media platforms, ecommerce websites, content management systems, and more.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

3. SYSTEM DESIGN

3.1 INTRODUCTION

The new system's design starts with elaborating the declaration of requirements into more specific goals. The main goal of the design process is to create a model or image of the system that can be used to tie the components together later. A framework the model that is created is referred to as the device design. A system design is a set of instructions for creating a system. By taking a top-down approach to reducing uncertainty and making a problem manageable, dividing it up into smaller chunks. System growth is the most dynamic process of the life cycle. It is the technical specification that will be used to execute the project and the system of candidates. The possible objects are extensively investigated. Students in the class hierarchy are used to seeing if the device is acting as it should. Following that, the classes are individually checked before being incorporated into the overall scheme. This stage focuses on determining which modules are needed, framework the module requirements and how these devices are used interdependent. A concept may also be thought of as a comprehensive strategy for a problem solution. It has been repeatedly shown that simplicity is at the core of success in architecture. Simple designs are simple to comprehend, build, and maintain a test, the most significant criterion for a design is simplicity.

3.2 INPUT AND OUTPUT DESIGN

INPUT DESIGN

Input design is the primary step in the system design, to design the input with the predefined guidelines. The objective of the layout is easy to follow and does not include operator errors. Input design is the process of converting user-oriented input to the computer-based output. Input data are collected and organized into group of similar data. The goal of designing input data is to make data entry easy, logical and error free as possible in input design and the administrator checks the entered data valid or not.

OUTPUT DESIGN

Output design has been an ongoing activity. The output is the most important and direct source of information to the user. Efficient intelligible output design should improve the system's relationship with the user and helps in decision making. Designing output requires understanding user's output requirements; the system produces an output, which varying according to user requirements.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

3.3 DATAFLOW DIAGRAMS (DFD)

Data flow diagram (DFD) is a graphical representation of the “flow” of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system without going into great detail, which can later be elaborated. A DED shows what kind of information will be input to and output from the system, how the data will advance through the system, and where the data will be stored.

DFD is a designing tool used in the top-down approach to system Design. This context level DFD is next “exploded”, to produce a Level 1 DFD that shows some of the detail of the system being modelled. The Level 1 DFD shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It also identifies internal data stores that must be present in order for the system to do its job and shows the flow of data between the various parts of the system.

- Function- An activity or a function that is performed for some specific reason; can be manual or computerized; ultimately each process should perform only one activity.
- Data Store- collection of data that is permanently stored.
- External Entity- A person, organization or system that is external to the system but interact with it.
- Data Flow- Single piece of data or logical collection of information like a bill.

The following are some DFD symbols used in the project.



Rectangle: - It defines a source or destination of system data.





THE COCHIN COLLEGE

KOCHI - 682 002

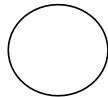
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE



Circle: - It represents a process that transforms incoming data flow into outgoing data flow.



Arrow: - It defines data flow. It is a pipeline through which information flows.



Open rectangle: - It is used to store data or a temporary repository of data.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

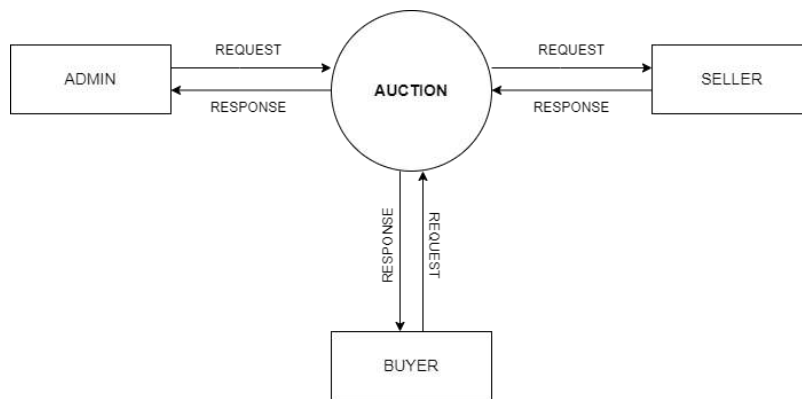
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

LEVEL 0 DFD:



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

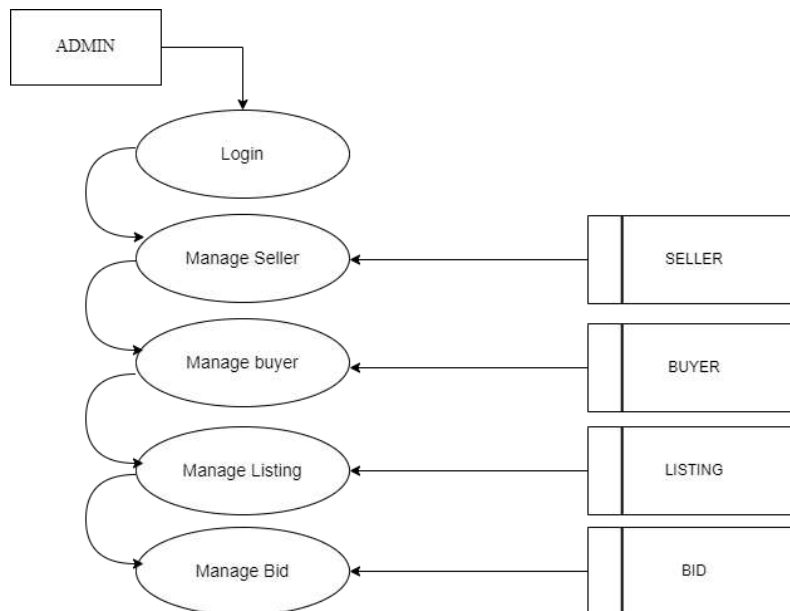
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

LEVEL 1: ADMIN





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

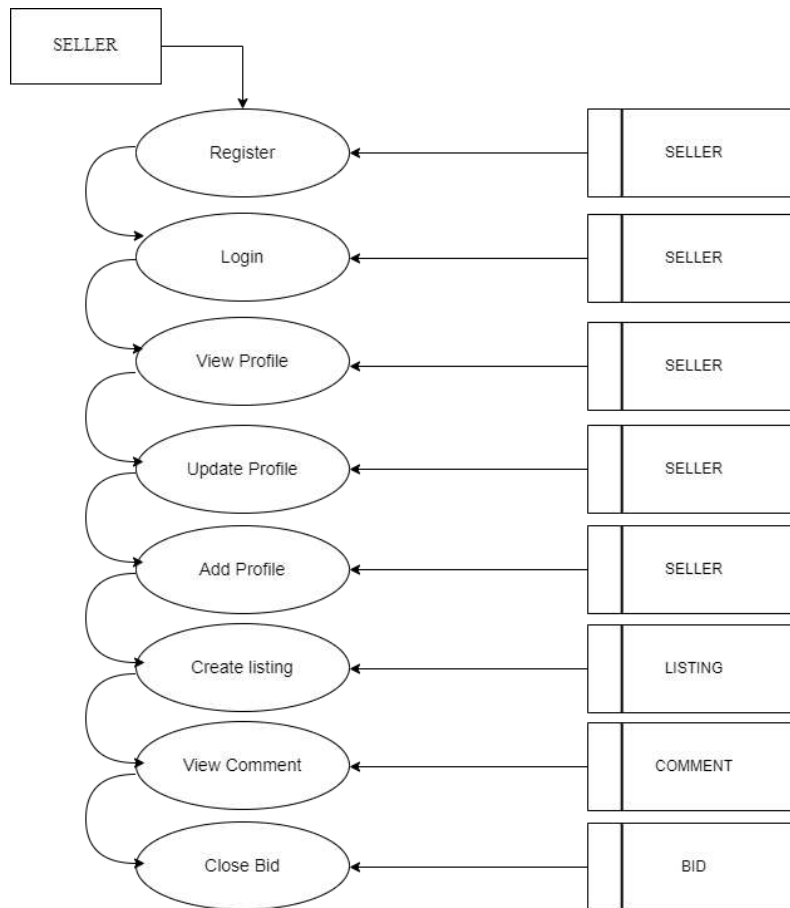
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

LEVEL 2: SELLER





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

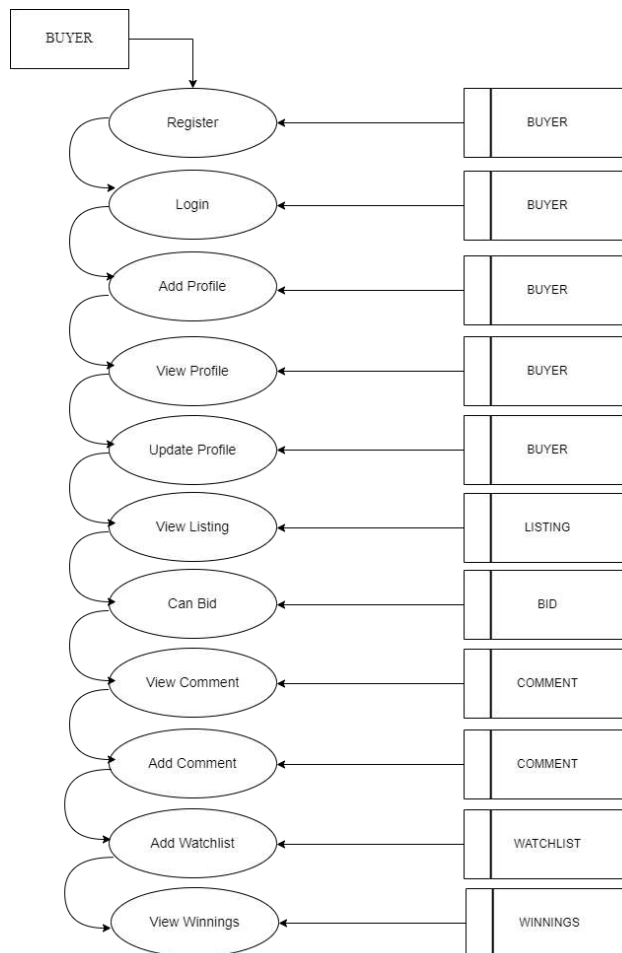
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

LEVEL 3:BUYER





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

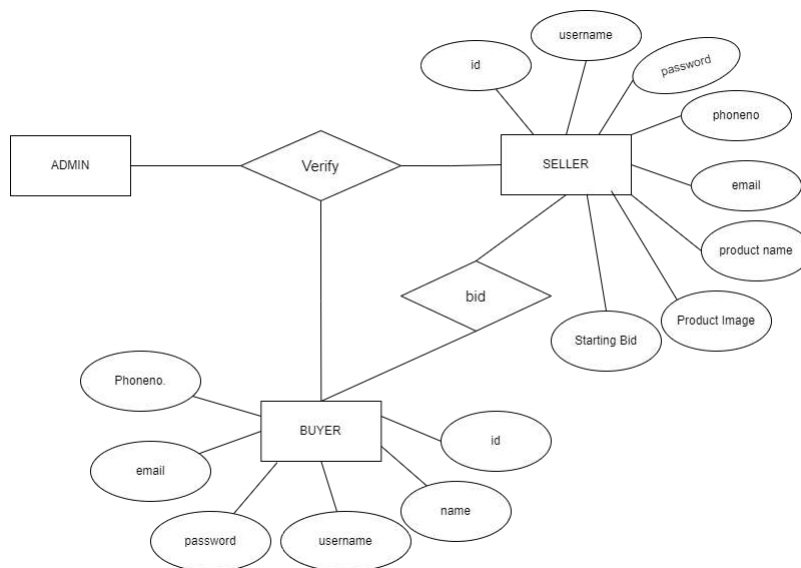
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

3.4 ENTITY RELATIONSHIP DIAGRAM (ER DIAGRAM)



3.5 TABLE DESCRIPTION

TABLE 1 : ADMIN

Fieldname	Datatype	Constraints
Username	Varchar	Not Null
Password	Varchar	Not Null





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

TABLE 2: add profile

Field name	Datatype	Constraints
id	Integer	Primary key
name	vchar	Not Null
Phone_num	Vchar	Not Null
Profileimg	Vchar	Not Null
User_id	integer	Not Null

TABLE 3: USER

Field name	Datatype	Constraints
User id	interger	Primary key
Password	Vchar	Not Null
Last_login	datetime	Not Null
Is_superuser	Bool	Not Null
email	vchar	Not Null
Is_staff	bool	Not Null
Is_active	bool	Not Null
Data_joined	datetime	Not Null
First_name	Vchar	Not null

TABLE 4: BID

Field name	Datatype	Constraints
Id	Interger	Primary key
user	Vchar	Not Null
Listingid	Integer	Not Null
bid	interger	Not Null





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

TABLE 5: AUCTION_LIST

Field name	Datatype	Constraints
Id	int	Foreign key
user	Varchar	Foreign key
title	Varchar	Primary key
desc	Text	Not Null
Starting_bid	interger	Not Null
category	Varchar	Not Null
Active_bool	bool	Not Null
Image_url	varchar	Not Null

4. SYSTEM TESTING

4.1 INTRODUCTION

The objective of system testing is to ensure that all individual programs are working as expected, that the programs link together to meet the requirements specified and to ensure that the computer system and the associated clerical and other procedures work together.

The initial phase of system testing is the responsibility of the analyst who determines what conditions are to be tested, generates test data, produced a schedule of expected results, runs the tests and compares the computer produced results with the expected results with the expected results. The analyst may also be involved in procedures testing. When the analyst is satisfied that the system is working properly, he hands it over to the users for testing. The importance of system testing by the user must be stressed. Ultimately it is the user must verify the system and give the go-ahead. During testing, the system is used experimentally to ensure that the software does not fail, i.e., that it will run according to its specifications and in the way, users expect it to.

UNIT TESTING

In computer programming, unit testing is a method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures are tested to determine if they are fit for use. In this testing we test each module individual and integrated the overall system. Unit testing focuses verification efforts on the smaller unit of software design in the module. This is also known as module testing. The modules of the system are tested separately. The testing is carried out during programming stage itself. In this testing step each module is found to working satisfactory as regard to the expected output from the module. There





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

are some validation checks for verifying the data input given by the user which both the formal and validity of the entered. It is very easy to find error debug the system. In this system four modules registration module, student module, teacher module and online exam module are tested separately.

INTEGRATION TESTING

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. Software components may be integrated in an iterative way or all together ("big bang"). Normally the former is considered a better practice since it allows interface issues to be located more quickly and fixed. Data can be lost across an interface; one module can have an adverse effect on the other sub functions when combined by, may not produce the desired major functions.

Integrated testing is the systematic testing for constructing the uncover errors within the interface. This testing was done with sample data. The developed system has run success full for this sample data. The need for integrated test is to find the overall system performance. In this testing the four modules registration module, student module, teacher module and online exam module are combined and tested as a group using sample data to find overall system performance.

Integrated testing is the systematic testing for constructing the uncover errors within the interface. This testing was done with sample data. The developed system has run success full for this sample data. The need for integrated test is to find the overall system performance. In this testing the four modules registration module, student module, teacher module and online exam module are combined and tested as a group using sample data to find overall system performance.

VALIDATION TESTING

Software is completely assembled as a package, interface errors have been uncovered and corrected and final series of software tests, Validation tests begins. Validation testing can be defined many ways but a simple definition is that validation succeeds when the software functions in a manner that can be reasonably accepted by the customer. Validation testing done using original data. After validation test has been conducted one of the two possible conditions exists.

- The function or performance characteristics confirm to specification and are accepted.
- A derivation from specification uncovered and a deficiency list is created





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

5.SYSTEM IMPLEMENTATION

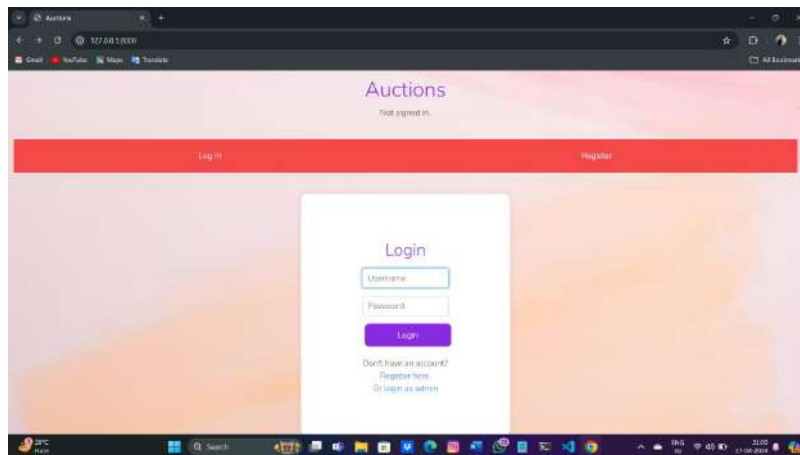
5.1 INTRODUCTION

As the system is tested it starts to move into the implementation phase. Ideally the system should be completed and fully tested implementation gets under way but unless a package is being installed this seldom happens. Normally what happens is that parts of the system which are required for file set-up are completed first and this process gets under way. Conversion programs may also have to be available which allow data from another system to be used in setting up the files. Once this data is set up it must keep up-to-date and thus the first use is made of the new system. This may be followed by a period of parallel running and then a decision is made to drop the old system.

Implementation involved placing the completed and tested system of hardware and software into the actual work environment of the users. When systems personnel check out and put new equipment into use, train user personnel, install the new application, and construct any files of data needs to use it, we say it is implemented. There are both technical-and people-oriented activities during this stage. Examples of technical activities include converting data files, replacing old programs with new ones, and scheduling computer operations. Examples of people-oriented activities include orientation, training and support.

5.2 SCREENSHOTS

HOME PAGE



29





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

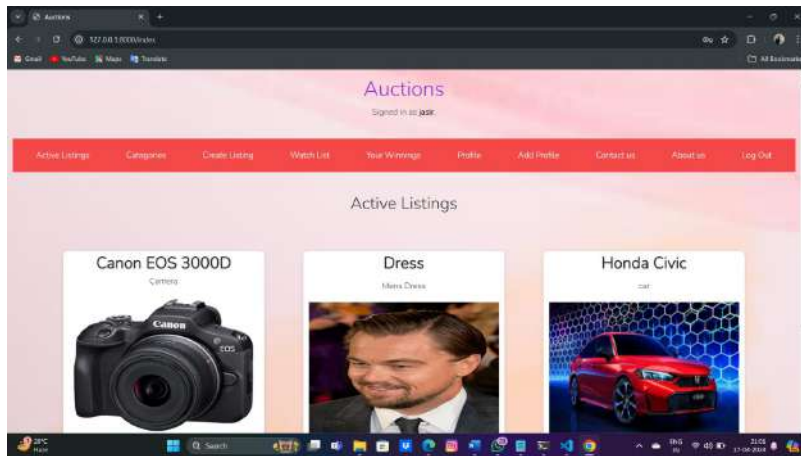
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

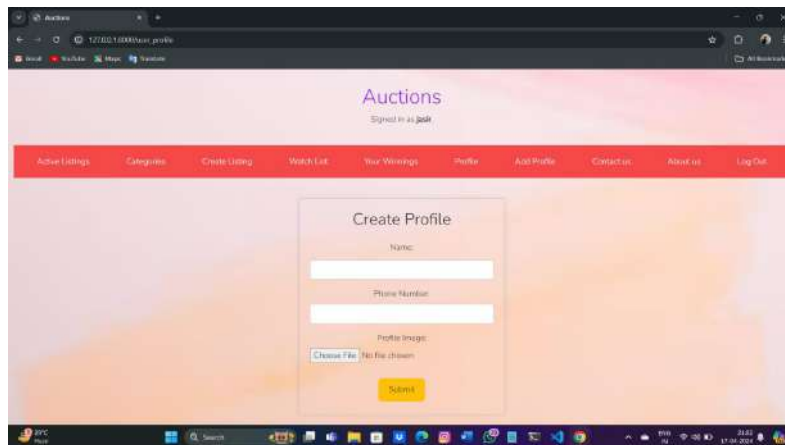
AUCTION MANAGEMENT

THE COCHIN COLLEGE

USER VIEW



ADD PROFILE



Mendula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

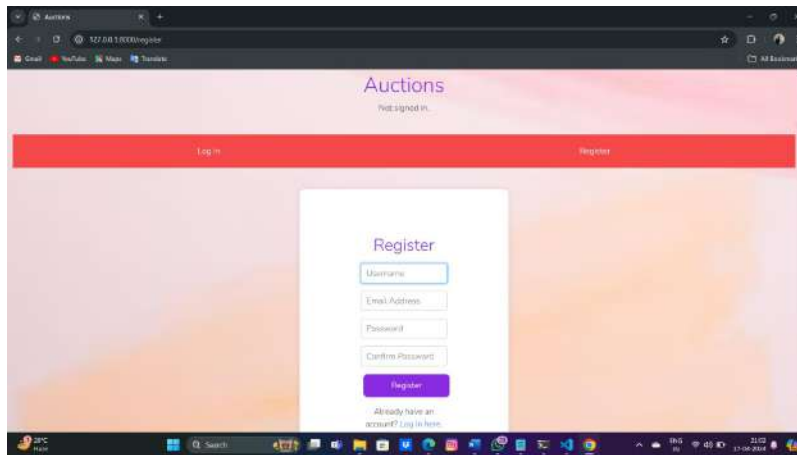
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

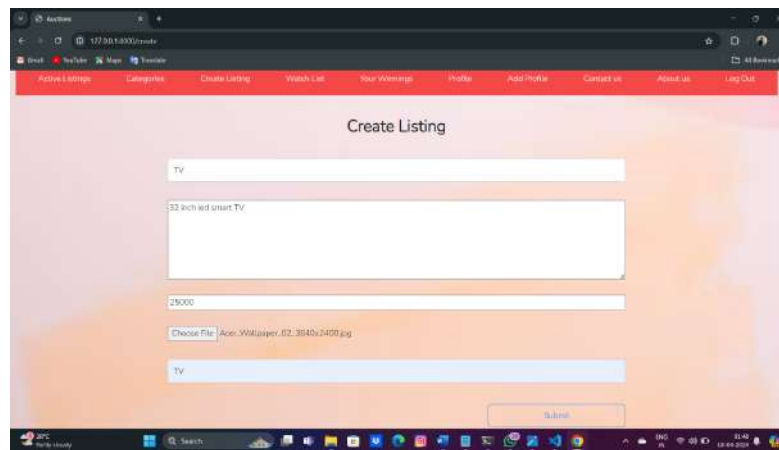
AUCTION MANAGEMENT

THE COCHIN COLLEGE

USER REGISTRATION



ADD LISTING



Mendula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

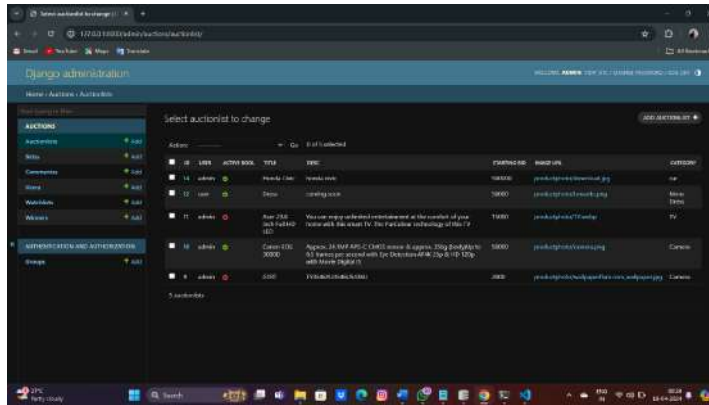
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

ADMIN VIEW



Mendula Menon V.
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

5.3 SOURCE CODE

1. Url.py

```

from django.urls import path

from . import views

urlpatterns = [
    path("", views.user_login, name="user_login"),
    path("index", views.index, name="index"),

    path("logout", views.logout_view, name="logout"),
    path("register", views.register, name="register"),
    path("create", views.create, name="create"),
    path("auctions/<int:bidid>", views.listingpage, name="listingpage"),
    path("watchlist/<str:username>", views.watchlistpage, name = "watchlistpage"),
    path("added", views.addwatchlist, name = "addwatchlist"),
    path("delete", views.deletewatchlist, name = "deletewatchlist"),
    path("bidlist", views.bid, name="bid"),
    path("comments", views.allcomments, name="allcomments"),
    path("win_ner", views.win_ner, name="win_ner"),
    path("winnings", views.winnings, name="winnings"),
    path("cat_list", views.cat_list, name="cat_list"),
    path("categories/<str:category_name>", views.cat, name="cat"),
    path("profile", views.profile, name="profile"),
    path('user_profile', views.user_profile, name='user_profile'),
    path('update_profile/<int:user_id>', views.update_profile, name='update_profile'),
    path("aboutus/", views.aboutus, name="aboutus"),

    path("contactus", views.contactus, name="contactus"),

]
from django.urls import path

from . import views

urlpatterns = [
    path("", views.user_login, name="user_login"),
    path("index", views.index, name="index"),

    path("logout", views.logout_view, name="logout"),
    path("register", views.register, name="register"),
    path("create", views.create, name="create"),
    path("auctions/<int:bidid>", views.listingpage, name="listingpage"),
    path("watchlist/<str:username>", views.watchlistpage, name = "watchlistpage"),
    path("added", views.addwatchlist, name = "addwatchlist"),
    path("delete", views.deletewatchlist, name = "deletewatchlist"),
    path("bidlist", views.bid, name="bid"),
    path("comments", views.allcomments, name="allcomments"),

```

33





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

path("win_ner", views.win_ner, name="win_ner"),
path("winnings", views.winnings, name="winnings"),
path("cat_list", views.cat_list, name="cat_list"),
path("categories/<str:category_name>", views.cat, name="cat"),
path("profile", views.profile, name='profile'),
path('user_profile', views.user_profile, name='user_profile'),
path('update_profile/<int:user_id>', views.update_profile, name='update_profile'),
path("aboutus/", views.aboutus, name="aboutus"),

path("contactus", views.contactus, name="contactus"),

]

```

2.VIEWS.py

```

from django.contrib.auth import
authenticate, login, logout
from django.db import IntegrityError
from django.http import HttpResponseRedirect,
HttpResponseRedirect
from django.shortcuts import render,
redirect
from django.urls import reverse
from .models import *
from django.contrib.auth.decorators import
login_required
from django.contrib import messages
from .models import Profile
from django.contrib.auth.decorators import
login_required
from django.contrib.auth import
authenticate, login, logout
from django.shortcuts import render,
get_object_or_404
from .forms import ProfileForm

def index(request):
    a1 = auctionlist.objects.filter(active_bool
= True)

    context = {'a1':a1}
    return render(request,
"auctions/index.html", context)

def user_login(request):
    if request.method == "POST":

```

34





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

# Attempt to sign user in
username =
request.POST["username"]
password =
request.POST["password"]
user = authenticate(request,
username=username, password=password)

# Check if authentication successful
if user is not None:
    login(request, user)
    return
HttpResponseRedirect(reverse("index"))
else:
    return render(request,
"auctions/login.html", {
    "message": "Invalid username
and/or password."
})
else:
    return render(request,
"auctions/login.html")

def logout_view(request):
    logout(request)
    return
HttpResponseRedirect(reverse("register"))

def register(request):
    if request.method == "POST":
        username =
request.POST["username"]
        email = request.POST["email"]
        password =
request.POST["password"]
        confirmation =
request.POST["confirmation"]

        # Ensure password matches
confirmation
        if password != confirmation:
            return render(request,
"auctions/register.html", {
            "message": "Passwords must
match."
            })

        # Ensure password meets minimum
length requirement

```

35





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

    if len(password) < 8:
        return render(request,
            "auctions/register.html", {
                "message": "Password must be at
least 8 characters long."
            })

    # Attempt to create new user
    try:
        user =
User.objects.create_user(username, email,
password)
        user.save()
    except IntegrityError:
        return render(request,
            "auctions/register.html", {
                "message": "Username already
taken."
            })
        login(request, user)
    return
HttpResponseRedirect(reverse("index"))
    else:
        return render(request,
            "auctions/register.html")

@login_required(login_url='login')
def create(request):
    if request.method == "POST":
        m = auctionlist()
        m.user = request.user.username
        m.title = request.POST["create_title"]
        m.desc =
request.POST["create_desc"]
        m.starting_bid =
request.POST["create_initial_bid"]
        m.image_url =
request.FILES["img_url"]
        m.category =
request.POST["category"]
        # m = auctionlist(title = title,
desc=desc, starting_bid = starting_bid,
image_url = image_url, category =
category)
        m.save()
        return redirect("index")
    return render(request,
        "auctions/create.html")

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```
def listingpage(request, bidid):
    biddesc = auctionlist.objects.get(pk =
bidid, active_bool = True)
    bids_present =
bids.objects.filter(listingid = bidid)

    return render(request,
"auctions/listingpage.html", {
        "list": biddesc,
        "comments" :
comments.objects.filter(listingid = bidid),
        "present_bid":
minbid(biddesc.starting_bid, bids_present),
    })

@login_required(login_url='login')
def watchlistpage(request, username):

    # present_w = watchlist.objects.get(user
= "username")
    list_ = watchlist.objects.filter(user =
username)
    return render(request,
"auctions/watchlist.html", {
        "user_watchlist" : list_,
    })

@login_required(login_url='login')
def addwatchlist(request):
    nid = request.GET["listid"]

    # below line of code will select a table of
watchlist that has my name, then
    # when we loop in this watchlist, there r
two fields present, to browse watch_list
    # watch_list.id == auctionlist.id, similar
for all

    list_ = watchlist.objects.filter(user =
request.user.username)

    # when you below line, you shld convert
id to int inorder to compare or else == wont
work

    for items in list_:
        if int(items.watch_list.id) == int(nid):
            return watchlistpage(request,
request.user.username)
```

37





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

newwatchlist = watchlist(watch_list =
auctionlist.objects.get(pk = nid), user =
request.user.username)
newwatchlist.save()
# this message remains untill u reload
messages.success(request, "Item added
to watchlist")

return listingpage(request, nid)

@login_required(login_url='login')
def deletewatchlist(request):
    rm_id = request.GET["listid"]
    list_ = watchlist.objects.get(pk = rm_id)

    # this message remains untill u reload
    messages.success(request,
f"{list_.watch_list.title} is deleted from
your watchlist.")
    list_.delete()

    # you cannot call a fuction from views
as a return value
    return redirect("index")

# this function returns minimum bid
required to place a user's bid
def minbid(min_bid, present_bid):
    for bids_list in present_bid:
        if min_bid < int(bids_list.bid):
            min_bid = int(bids_list.bid)
    return min_bid

@login_required(login_url='login')
def bid(request):
    bid_amnt = request.GET["bid_amnt"]
    list_id = request.GET["list_d"]
    bids_present =
bids.objects.filter(listingid = list_id)
    startingbid = auctionlist.objects.get(pk =
list_id)
    min_req_bid = startingbid.starting_bid
    min_req_bid = minbid(min_req_bid,
bids_present)

    if int(bid_amnt) > int(min_req_bid):

```

38





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

mybid = bids(user =
request.user.username, listingid = list_id ,
bid = bid_amt)
mybid.save()
messages.success(request, "Bid
Placed")
return redirect("index")

messages.warning(request, f"Sorry,
{bid_amt} is less. It should be more than
{min_req_bid}$.")
return listingpage(request, list_id)

# shows comments made by different user
and allows to add comments
@login_required(login_url='login')
def allcomments(request):
    comment = request.GET["comment"]
    username = request.user.username
    list_id = request.GET["listid"]
    new_comment = comments(user =
username, comment = comment, listingid =
list_id)
    new_comment.save()
    return listingpage(request, list_id)

# shows message abt winner when bid is
closed
def win_ner(request):
    bid_id = request.GET["listid"]
    bids_present =
bids.objects.filter(listingid = bid_id)
    biddesc = auctionlist.objects.get(pk =
bid_id, active_bool = True)
    max_bid = minbid(biddesc.starting_bid,
bids_present)
    try:
        # checks if anyone other than
list_owner win the bid
        winner_object = bids.objects.get(bid =
max_bid, listingid = bid_id)
        winner_obj = auctionlist.objects.get(id
= bid_id)
        win = winner(bid_win_list =
winner_obj, user = winner_object.user)
        winners_name = winner_object.user

    except:
        #if no-one placed a bid, and if bid is
closed by list_owner, owner wins the bid

```

39





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

winner_obj =
auctionlist.objects.get(starting_bid =
max_bid, id = bid_id)
win = winner(bid_win_list =
winner_obj, user = winner_obj.user)
winners_name = winner_obj.user

#Check Django Documentary for
Updating attributes based on existing
fields.
biddesc.active_bool = False
biddesc.save()

# saving winner details
win.save()
messages.success(request,
f'{winners_name} won
{win.bid_win_list.title}.')
return redirect("index")

# checks winner
def winnings(request):
try:
your_win = winner.objects.filter(user
= request.user.username)
except:
your_win = None

return render(request,
"auctions/winnings.html", {
"user_wishlist" : your_win,
})

#shows lists that are present in a specific
category
def cat(request, category_name):
category =
auctionlist.objects.filter(category =
category_name)
return render(request,
"auctions/index.html", {
"a1" : category,
})

#shows all categories in which object is
listed
def cat_list(request):

# unlike filter that takes a values of
object_name in model, to
# display objectname use .values('name
of section from your object')

```

40





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

# and when you add distinct() along with
it
# it shows only unique names, omits
duplicates

category_present =
auctionlist.objects.values('category').distinct()
return render(request,
"auctions/category.html", {
    "cat_list" : category_present,
})

def profile(request):
    # Get the user's profile or create it if it
    doesn't exist
    profile, created =
Profile.objects.get_or_create(user=request.
user)

    return render(request,
"auctions/profile.html", {'profile': profile})

def user_profile(request):

    if request.method=='POST':
        if request.user.is_authenticated:
            user_id = request.user.id
            img=request.FILES['img']
            name=request.POST['name']

phone_no=request.POST['phone_no']

myprofile=add_profile(user_id=user_id,name=name,phone_number=phone_no,profileimg=img)
myprofile.save()
return redirect('profile')

    return
render(request,'auctions/add_profile.html')

def profile(request):
    user_profile, created_user_profile =
Profile.objects.get_or_create(user=request.
user)
    additional_profiles =
add_profile.objects.filter(user=request.user
)

```

41





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

    return render(request,
    "auctions/profile.html", {'user_profile':
    user_profile, 'additional_profiles':
    additional_profiles, 'user_id':
    user_profile.user_id})

def update_profile(request, user_id):
    try:
        profile =
    add_profile.objects.get(user_id=user_id)
    except add_profile.DoesNotExist:
        profile = None

    if profile is None:
        return redirect('user_profile')

    if request.method == 'POST':
        form = ProfileForm(request.POST,
    request.FILES, instance=profile)
        if form.is_valid():
            form.save()
            return redirect('profile')
        else:
            form = ProfileForm(instance=profile)

    return render(request,
    'auctions/update_profile.html', {'form':
    form, 'profile': profile})

def aboutus(request):
    return render(request,
    "auctions/aboutus.html")

def contactus(request):
    return render(request,
    "auctions/contactus.html")

```

3.index.html

```

{% extends "auctions/layout.html" %}

{% block body %}
<h2 style="text-align: center;">Active Listings</h2>
{% if messages %}
{% for message in messages %}
<div class="message">{{ message }}</div>
{% endfor %}
{% endif %}
<div id="activelist">

```

42





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```
{% for list in a1 %}
<div class = "card">
  <a class="title">{{ list.title }}</a>
  <a class= "cat">{{ list.category }}</a>
  {% if list.imageURL_1 %}
    
  {% else %}
    
  {% endif %}
  {% comment %}  {% endcomment %}

  <p class="desc">{{ list.desc }}</p>
  <a><a class="c_price">Starting Bid: </a>₹{{ list.starting_bid }}</a>
  <a href="{% url 'listingpage' list.id %}">View Bid</a>
</div>
{% endfor %}

</div>

<style>
P{
padding: 1vw;
}
#activelist{
margin-top: 4vw;
grid-gap: 2vw;
display:grid;
width: 90%;
margin-left: 5%;
grid-template-rows: repeat(auto,1fr);
grid-template-columns: 1fr 1fr 1fr;
font-family: 'Nunito', sans-serif;
text-align: center;
}
.card{
display: grid;
grid-template-rows: repeat(auto,1fr);
grid-template-columns: 1fr;
width: 90%;
margin-left: 5%;
}

img{
```

43





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

```

width: 100%;
height: 300px;
padding: 10px;
}

.title{

font-size: 2vw;
font-weight: bold;
text-align: center;
}
.c_price{
font-weight: bold;
}

</style>

```

```
{% endblock %}
```

6. CONCLUSION

CONCLUSION

In summary, our web application, tailored specifically for home developers, serves as a versatile platform for individuals to showcase their diverse skills and sell their handmade products. With a focus on fostering creativity and entrepreneurship, our platform enables users to tap into their talents and reach a wider audience from the comfort of their homes. Whether it's crafting unique décor items, textiles, or other homemade goods, our application provides a seamless avenue for artisans to market their products and connect with potential buyers.

Furthermore, our platform not only empowers sellers but also enriches the consumer experience by offering a curated selection of authentic, home-developed products. By providing a centralized marketplace for buyers to explore and purchase goods from





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

AUCTION MANAGEMENT

THE COCHIN COLLEGE

verified sources, we aim to foster trust and promote sustainable consumption practices. Through innovative features and user-friendly interfaces, we strive to cultivate a vibrant community where creativity thrives, and individuals can find inspiration and fulfillment in both creating and acquiring handmade treasures.

7. REFERENCES

BOOKS REFERRED

- Agarwal, K. K. (2008). Software Engineering.

New Age International (P) Limited. Sommerville, L. (2008). Software Engineering. Dorling

Kindersley (India) Pvt. Ltd

WEBSITES

<https://www.python.org>

<https://www.djangoproject.com>

<https://www.w3schools.com>

<https://www.coursera.or>





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On

“MACHINES AND WORKERS RENTAL”

Submitted by,

RIZDHAN.M.Z

(210021090215)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University Kottayam -686560



THE COCHIN COLLEGE KOOVAPPADAM-682002,
ERNAKULAM 2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

RIZDHAN M.Z(210021090215)

Date:

Place:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE

KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "MACHINES AND WORKERS RENTAL" submitted by **RIZDHAN M.Z(210021090215)**, in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024.

HRIDYA KS
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

I convey my sincere thanks to Ms. KEERTHANA S, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

I express my deep sense gratitude to our project guide, Ms. HRIDYA K S, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their wholehearted co-operation throughout our project, without which the project could not have been accomplished successfully.

I also wish to extend our heartfelt gratitude to my parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYNOPSIS

Efficient resource and personnel management are paramount. We present a comprehensive Machine and Worker Rental System (MWRS) with integrated image searching capabilities. This system streamlines machinery rental, worker hiring, and incorporates advanced image search technology, enhancing user experience and decision-making. Catering to users unfamiliar with tool names. By allowing users to upload images of required tools, MWRS enhances decision-making. The MWRS provides an intuitive platform for businesses to rent machinery and equipment. It also serves as a centralized hub for employers to hire skilled workers, optimizing project execution through streamlined resource allocation. A standout feature of MWRS is its advanced image search. Users can upload images of required machinery or skilled workers, leveraging computer vision and recognition to expedite the search process, ideal for non-technical users or those communicating visually. Emphasizing data security, MWRS implements robust authentication, ensuring privacy. The user-friendly interface accommodates all users, promoting accessibility and ease of use. The Machine and Worker Rental System with image searching offers holistic resource management for the industrial sector. By integrating rentals with cutting-edge image recognition, businesses can make informed decisions, accelerate projects, and revolutionize operations.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

TABLE OF CONTENTS

SL NO.	TITLE	PAGE NO
1	INTRODUCTION	1
1.1	Overview of the System	1
1.2	Aim	1
1.3	Objectives	2
1.4	Problem definition	2
2	SYSTEM ANALYSIS	3
2.1	System Study	3
2.1.1	Existing System	3
2.1.2	Proposed System	4
2.1.3	Feasibility study	5
3	SYSTEM MODELLING	16
3.1	Data flow diagram	7
4	SYSTEM DESIGN	25
4.1	Input design	26
4.2	Output Design	32
4.3	Database Design	33
5	IMPLEMENTATION OF SECURITY	40
5.1	Data security	40
5.2	User and access rights	40





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

6	SYSTEM TESTING	41
6.1	Unit testing	42
6.2	Integration Testing	42
6.3	User acceptance testing	42
7	SYSTEM IMPLEMENTATION AND MAINTENANCE	45
7.1	System maintenance	46
7.2	Source Code	48
8	SCOPE OF THE PROJECT	54
8.1	Purpose of the project	55
9	FUTURE ENHANCEMENT	55
10	FUTURE SCOPE	56
11	CONCLUSION	57
12	BIBLIOGRAPHY	58





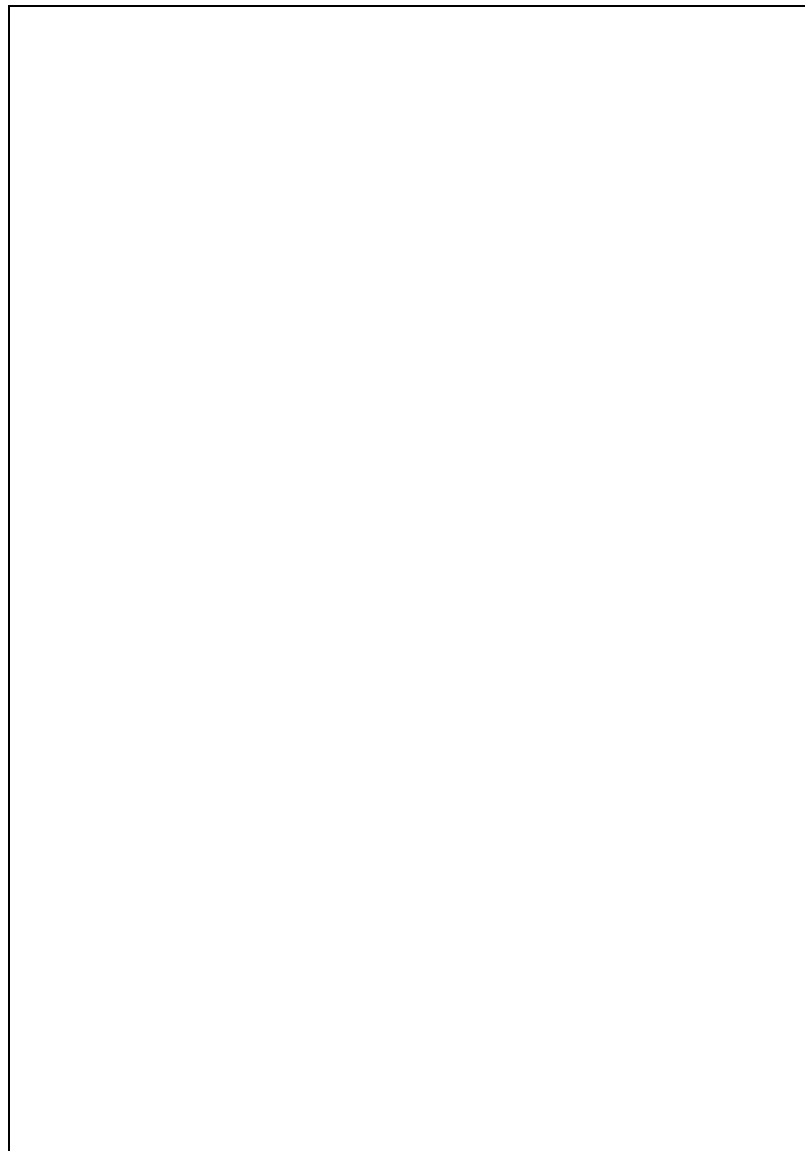
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "HOME SERVICE" submitted by ANEETTA AP (210021090176) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by her during the academic year 2021-2024.

SHINDA VARGHEESE

Project Guide

Submitted for the Viva-Voce held on 17-04-2024 at The cochin college

KEERTHANA S

Head of the Department

Internal Examiner


External Examiner
17/4/24



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On
"Law System"

Submitted by,
DERIN V J
(210021090184)

In partial fulfillment for the award of the degree

*Of
Bachelor of Computer Application
Of*

*Mahatma Gandhi University
Kottayam -686560*



THE COCHIN COLLEGE
KOOVAPADAM- 682002, ERNAKULAM
2021-2024





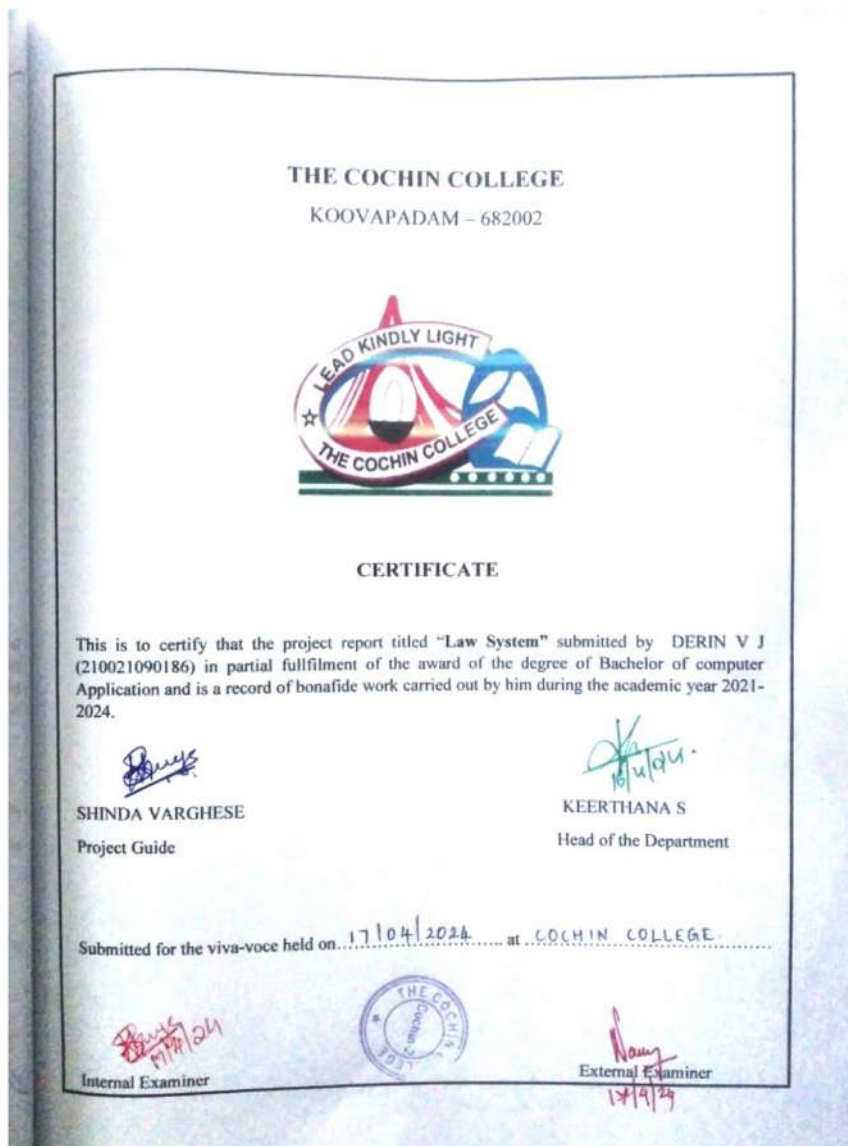
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in



2

2



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002


(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in


Health care management


THE COCHIN COLLEGE
KOOVAPPADAM-682002




CERTIFICATE


This is to certify that the project report titled "HEALTH CARE MANAGEMENT" submitted by NANDANA K.M(210021090211) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by her during the academic year 2021-2024



HRIDYA K.S
Project Guide


KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on 19-4-2024 at The Cochin College


Internal Examiner


External Examiner
19/4/24



3

The Cochin College | Department of Computer Application




Mrudula Menon V.
Principal-in-Charge
The Cochin College



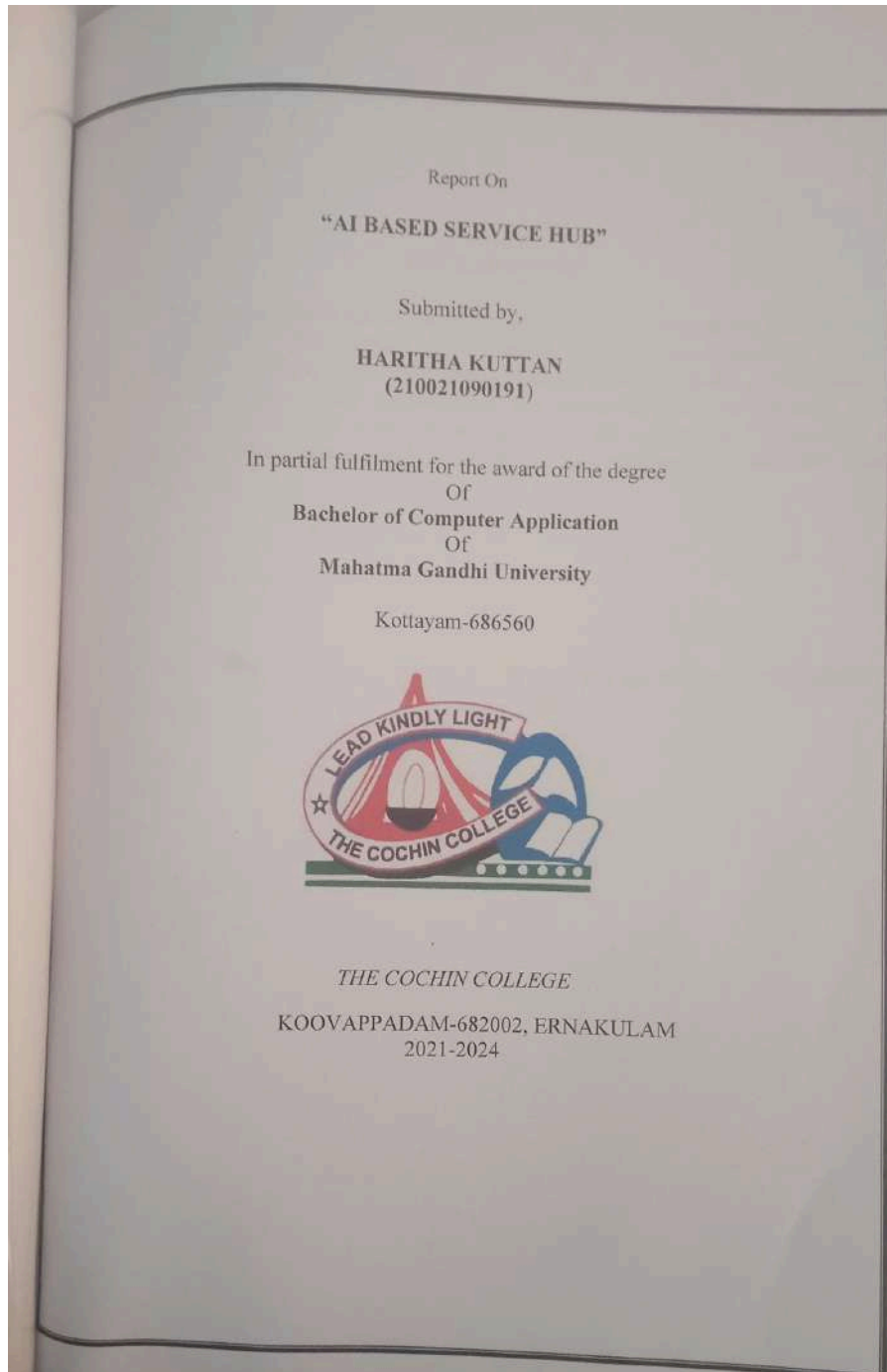
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thechochincollege.edu.in

email: email@thechochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Applications, The Cochin College, Koovapadam, in partial fulfilment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

Haritha

HARITHA KUTTAN (210021090191)

Date: 18-4-24

Place: Kochi





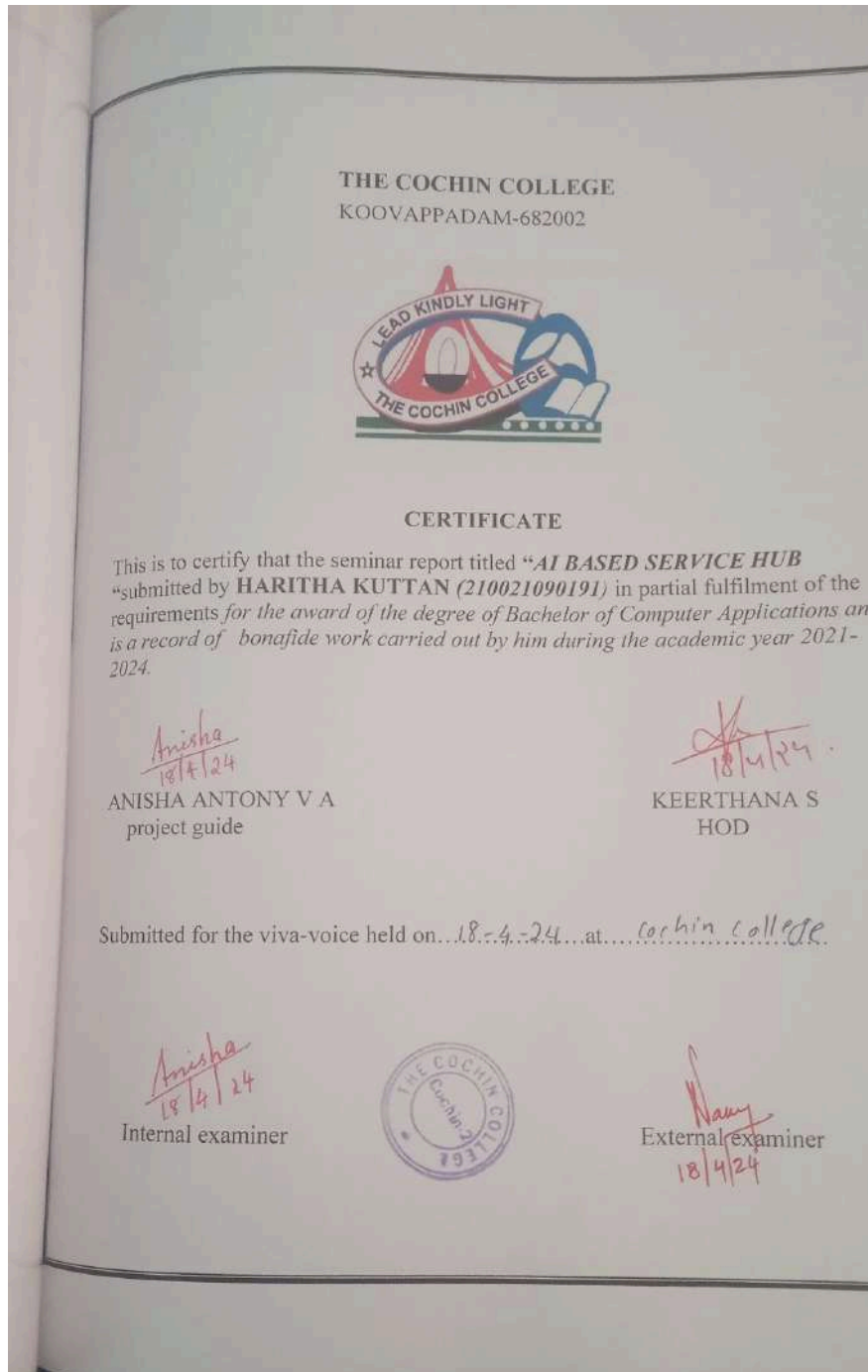
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

A Report On

"FrameFolio"

Submitted by

Amshen Yesudas
(210021090175)

In partial fulfillment for the award of the degree
of
Bachelor of Computer Application
of
Mahatma Gandhi University
Kottayam -686560



THE COCHIN COLLEGE

KOOVAPADAM-682002, ERNAKULAM
2021-2024

The Cochin College

Department of Computer Application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Applications, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

Amshen Yesudas
(210021090175)

Date:

Place:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "**FrameFolio**" submitted by **AMSHEN YESUDAS (210021090175)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bona.fide work carried out by him during the academic year 2021-2024.

HRIDYA K.S
Project Guide

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on at

Internal Examiner

External Examiner



Mendula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

I convey our sincere thanks to **Ms. KEERTHANA S**, HOD, Department of Computer Application, The Cochin College, who provided me the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

I express my deep sense gratitude to my project guide, **Ms. HRIDYA K.S**, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout my project, without which the project could not have been accomplished successfully.

I also wish to extend my heartfelt gratitude to my parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thechochincollege.edu.in

email: email@thechochincollege.edu.in

FrameFolio

SYNOPSIS

The project centers around the development of an image sharing platform designed to provide users with a seamless and engaging experience. With a focus on user convenience and administrative oversight, the platform integrates Google login functionality for secure authentication, allowing users to sign in using their Google accounts with ease. Once authenticated, users gain access to a range of features, including the ability to upload images from their devices. To ensure the quality and appropriateness of uploaded content, an admin approval workflow is implemented, empowering designated administrators to review and approve images before they become publicly accessible. This process includes criteria-based evaluation and tracking of each image's approval status for transparency and accountability. Furthermore, the platform offers an intuitive interface for browsing and viewing approved images, enhancing user satisfaction and interaction. By prioritizing functionality, security, and user experience, the project aims to deliver a comprehensive image sharing solution that caters to the diverse needs of both users and administrators alike.

TABLE OF CONTENTS





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

Sl. No	TITLE	PAGE No
1	INTRODUCTION	
1.1	Overview of the project	1
1.2	Objectives of the Project	1
1.3	Scope of the Project	1
2	SYSTEM ANALYSIS	
2.1	Introduction	2
2.1.1	Existing System	3
2.1.2	Proposed System	3
2.2	System Specification	3
2.2.1	Hardware Specification	3
2.2.2	Software Specification	3
3	SYSTEM DESIGN	
3.1	Introduction	7
3.2	Input and Output Design	7
3.3	Module Design	8
3.4	Data Flow Diagram (DFD)	9
3.4.1	Introduction	
3.4.2	Rules for Constructing Data Flow Diagram	10
3.4.3	Basic Data Flow Diagram Symbols	
3.5	Entity Relationship Diagram (ER Diagram)	12
3.6	Table Description	15
4	SYSTEM TESTING	
4.1	Introduction	16
4.2	Test Cases	17
5	SYSTEM IMPLEMENTATION	
5.1	Introduction	19
5.2	Screen Shots	19
5.3	Source Code	23
6	CONCLUSION AND FUTURE SCOPE	
6.1	Conclusion	32
6.2	Future Enhancements	32
6.3	Bibliography	33





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

1. INTRODUCTION

1.1 OVERVIEW OF THE PROJECT

The project entails the creation of an image sharing platform with a comprehensive feature set aimed at facilitating seamless user interaction. Key functionalities include integration of Google login for secure authentication, enabling users to sign in using their Google accounts effortlessly. Image upload capability will be provided, allowing authenticated users to upload images from their devices, with validation mechanisms ensuring only supported formats are accepted. An admin approval workflow will be implemented, enabling authorized administrators to review uploaded images before they are made publicly accessible. This workflow will include features for approving or rejecting images based on predefined criteria, with the status of each image tracked and stored for auditing purposes. Additionally, the platform will offer a user-friendly interface for browsing and viewing approved images, enhancing the overall user experience. Through these features, the project aims to deliver a robust and intuitive image sharing platform that meets the needs of both users and administrators.

1.2 OBJECTIVES OF THE PROJECT

To develop an interactive and secure image gallery website for showcasing user-contributed images in a 3D environment. The website will allow users to sign in using their Google accounts, upload images, and submit them for approval. An admin panel will enable administrators to review and approve uploaded images before they are displayed on the website. The project aims to provide a seamless user experience while ensuring the integrity and appropriateness of the displayed content.

1.3 SCOPE OF THE PROJECT

The project scope encompasses the development of an interactive image gallery website with user authentication via Google sign-in, enabling users to upload images for display in a 3D gallery environment. A dedicated admin panel will facilitate image management, allowing administrators to review and approve uploaded images before they are showcased on the website. Key features include secure image storage, an intuitive user interface for both regular users and administrators, a streamlined approval workflow with user notifications, and robust security measures to protect user data and prevent unauthorized access. Thorough testing and documentation will ensure the functionality, usability, and scalability of the website, providing a seamless experience for users while maintaining control over the content displayed in the gallery.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thechochincollege.edu.in

email: email@thechochincollege.edu.in

FrameFolio

2. SYSTEM ANALYSIS

2.1 INTRODUCTION

Software Engineering is the analysis, design, construction, verification and management of technical or social entities. To engineer software accurately, a software engineering process must be defined. System analysis is a detailed study of the various operations performed by the system and their relationship within and module of the system. It is a structured method for solving the problems related to the development of a new system. The detailed investigation of the present system is the focal point of system analysis. This phase involves the study of parent system and identification of system objectives. Information has to be collected from all people who are affected by or who use the system. During analysis, data are collected on the variable files, decision point and transactions handled by the present system. The main aim of system is to provide the efficient and user friendly automation. So the system analysis process should be performed with extreme precision, so that an accurate picture of existing system, its disadvantages and the requirements of the new system can be obtained.

System analysis involves gathering the necessary information and using the structured tool for analysis. This includes the studying existing system and its drawback, designing a new system and conducting cost benefit analysis. System analysis is a problem solving activity that requires intensive communication between the system users and system developers. The system is studied to the minute detail and analyzed. The system is viewed as a whole and the inputs to the system are identified. The outputs from the organization are traced through various phases of processing of inputs.

There are a number of different approaches to system analysis. When a computer based information system is developed, systems analysis (according to the Waterfall model) would constitute the following steps:

- The development of a feasibility study, involving determining whether a project is economically, technologically and operationally feasible.
- Conducting fact-finding measures, designed to ascertain the requirements of the system's end-users. These typically span interviews, questionnaires, or visual observations of the work of existing system.
- Gauging how the end-users would operate the system (in terms of general experience in using computer hardware or software), what the system would be used for and so on.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

2.1.1 EXISTING SYSTEM

Techniques such as interviews, questionnaires etc. can be used for the detailed study of these processes. The data collected by these sources must be scrutinized to arrive at a conclusion.

The conclusion is an understanding of how the system functions. This system is called the Existing System. The Existing system is then subjected to close observation and the problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as a proposal which is the Proposed System. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is then presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is a loop that ends as soon as the user is satisfied with the proposal.

2.1.2 PROPOSED SYSTEM

Proposed system can solve all the disadvantages of the existing system.

2.2 SYSTEM SPECIFICATION

To develop this system, it requires hardware as well as software support.

2.2.1 HARDWARE SPECIFICATION

The selection of hardware is very important in the existence and proper working of any software. When selecting hardware, the size and capacity requirements are also important. Below is some of the hardware that is required by the system:

Processor	:	Dual core processor of 2.0 GHz or more
RAM	:	4GB of RAM
Hard Disk Space	:	2GB free hard disk space
Input Devices	:	Mouse, Keyboard
Output Devices	:	Monitor, Printer

2.2.2 SOFTWARE SPECIFICATION

We require much different software to make the application which is in making to work efficiently. It is very important to select the appropriate software so that the software works properly.

Below are the software requirements.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

Operating System : Windows 11

Front End : ReactJs

Back End : NodeJs

Web Technologies : ThreeJs, NestJs, React Three Fiber

Web Browser : Mozilla Firefox/Google Chrome/Edge

Web Server : NestJs

NodeJs

For the project, consider utilizing Node.js as the backend framework for its ability to handle asynchronous operations efficiently, making it suitable for real-time applications like image uploads and approvals. With its event-driven architecture, Node.js can handle concurrent requests, ensuring optimal performance for user interactions. Additionally, you can leverage npm packages such as Passport.js for user authentication via Google sign-in and Multer for handling image uploads securely. Express.js can serve as the web application framework, providing a robust foundation for routing and middleware integration. Incorporating a NoSQL database like MongoDB would complement Node.js, offering flexibility in schema design and scalability for storing user information and image data. Overall, Node.js offers a powerful platform for building a responsive and scalable backend for your image gallery project.

ReactJs

Integrating React.js into your project for the frontend can greatly enhance its interactivity and user experience. React's component-based architecture allows for easy management of complex UI elements, making it ideal for building dynamic interfaces like an image gallery. You can create reusable components for displaying images, user authentication components, and admin panel elements, improving code maintainability and scalability. Leveraging React's virtual DOM enables efficient rendering of updates, resulting in smooth user interactions and fast response times. Additionally, React's ecosystem offers a plethora of libraries and tools that can streamline development tasks, such as React Router for managing navigation and Redux for managing application state. By incorporating React.js into your project, you can create a modern, responsive, and user-friendly interface that enhances the overall user experience of your image gallery website.

ThreeJs

Integrating Three.js into your project can bring your 3D image gallery to life by enabling the creation of immersive and interactive 3D environments for displaying uploaded images. Three.js is a powerful JavaScript library that simplifies the process of working with WebGL, allowing you to render 3D graphics directly in the browser. You can use Three.js to create a





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

variety of effects and animations, such as rotating and scaling images, implementing lighting and shadows, and adding custom shaders for visual enhancements. By leveraging Three.js, you can provide users with a unique and engaging experience as they navigate through your gallery in a 3D space, enhancing the overall appeal and attractiveness of your project. Additionally, Three.js offers extensive documentation and a supportive community, making it easier to get started and troubleshoot any issues that may arise during development.

Scss (Sassy Cascading Style Sheets)

Utilizing SCSS (Sassy CSS) in your project can streamline the styling process and enhance maintainability by providing features such as variables, mixins, nesting, and inheritance. With SCSS, you can define reusable styles and organize your CSS code more efficiently, resulting in cleaner and more modular stylesheets. By using variables, you can centralize commonly used values such as colors and font sizes, making it easier to maintain a consistent design throughout your project. Mixins allow you to encapsulate reusable style patterns, reducing redundancy and promoting code reuse. SCSS also supports nesting, which mirrors the HTML structure and makes the CSS code more intuitive and easier to understand. Furthermore, SCSS enables inheritance, allowing you to extend styles from one selector to another, promoting code consistency and reducing repetition. Overall, incorporating SCSS into your project can improve productivity, maintainability, and the overall quality of your stylesheet.

Windows 11 Home

Windows 11 Home is a version of the Windows 11 operating system designed for home users. It includes a range of features and tools designed to make it easier to use, manage, and personalize a Windows-based computer. Some of the key features of Windows 11 Home include:

- New Start menu: Windows 11 Home includes a redesigned Start menu that is simpler, cleaner, and more customizable.
- Virtual desktops: Windows 11 Home allows users to create and manage multiple virtual desktops, making it easier to organize and switch between different applications and projects.
- Microsoft Store: The Microsoft Store in Windows 11 Home has been redesigned to make it easier to find and download apps, games, and other content.
- Snap layouts and snap groups: Windows 11 Home includes new snap features that allow users to quickly arrange and organize open windows on their desktop.
- Touch, pen, and voice input: Windows 11 Home includes a range of features and tools designed to support touch, pen, and voice input, making it easier to interact with a Windows-based computer.
- Enhanced security: Windows 11 Home includes enhanced security features, such as Windows Hello biometric authentication, to help keep users and their data safe.

Overall, Windows 11 Home is designed to be an easy-to-use and customizable operating system for home users, with a range of features and tools to help users stay productive and secure.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

NodeJs

Node.js, since its inception, has fundamentally transformed the landscape of web development. By allowing JavaScript code execution on the server-side, it unified the language across both client and server environments, streamlining development workflows and enabling developers to leverage their existing skills across the full stack. Its event-driven, non-blocking I/O model, built on the high-performance V8 JavaScript engine, ensures efficient handling of asynchronous operations, making Node.js particularly well-suited for handling I/O-heavy tasks such as network communication and file system operations. This architecture enables Node.js applications to handle a large number of concurrent connections without incurring the overhead of thread management, leading to highly scalable and responsive applications. Moreover, Node.js comes with npm, the largest ecosystem of open-source libraries and frameworks, empowering developers with a vast array of tools and modules to accelerate development and address various application requirements. Its cross-platform nature further enhances its versatility, allowing developers to build and deploy Node.js applications seamlessly across different operating systems. From web servers and APIs to real-time applications, microservices, and IoT solutions, Node.js has become a cornerstone of modern web development, driving innovation and empowering developers to build robust, high-performance software solutions efficiently.

MongoDB

MongoDB is a widely-used, open-source NoSQL database that provides flexible and scalable document-oriented storage. Unlike traditional relational databases, MongoDB stores data in flexible, JSON-like documents, allowing for dynamic schemas and easier data manipulation. It offers high performance, horizontal scalability, and built-in replication and sharding capabilities, making it suitable for a wide range of use cases, from small-scale applications to large enterprise systems.

One of MongoDB's key features is its ability to handle unstructured or semi-structured data, which is common in modern web and mobile applications. Developers can store data in BSON (Binary JSON) format, which supports various data types and allows for nested documents and arrays, providing a natural way to represent complex data structures.

MongoDB's query language and indexing capabilities allow for efficient retrieval and manipulation of data, supporting features such as ad-hoc queries, aggregation pipelines, and full-text search. It also provides built-in support for geospatial queries, making it suitable for location-based applications.

With its horizontal scalability and distributed architecture, MongoDB can easily scale out to handle large volumes of data and high concurrency, making it a popular choice for applications that require flexibility, scalability, and high availability. Additionally, MongoDB offers comprehensive tooling and integrations with popular programming languages and frameworks, further simplifying development and deployment workflows.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

FrameFolio

Overall, MongoDB has become a go-to database solution for developers and organizations looking to build modern, scalable applications that require flexible data storage and efficient querying capabilities. Its vibrant community, extensive documentation, and active development make it a robust choice for a wide range of use cases across industries.

3. SYSTEM DESIGN

3.1 INTRODUCTION

The most creative and challenging phase of the system development is system design, is a solution to how to approach to the creation of the proposed system. It refers to the technical specification that will be applied. It provides the understanding and procedural details necessary for implementing the system recommended in the feasibility study. Design goes through the logical and physical stages of development. At an early stage in designing a new system, the system analyst must have a clear understanding of the objectives, which the design is aiming to fulfil. The first step is to determine how the output is to be produced and in what format. Second input data and master files (database) have to be designed to meet the requirements of the proposed output. The operational (processing) phases are handled through program construction and testing.

3.2 INPUT AND OUTPUT DESIGN

The system design includes:

- Input design
- Output design

INPUT DESIGN

Input design is the primary step in the system design, to design the input with the predefined guidelines. The objective of the layout is easy to follow and does not include operator errors. Input design is the process of converting user-oriented input to the computer-based output. Input data are collected and organized into group of similar data. The goal of designing input data is to make data entry easy, logical and error free as possible in input design and the administrator checks the entered data valid or not.

OUTPUT DESIGN

Output design has been an ongoing activity. The output is the most important and direct source of information to the user. Efficient intelligible output design should improve the system's relationship with the user and helps in decision making. Designing output requires understanding user's output requirements; the system produces an output, which varying according to user requirements.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

3.3MODULE DESIGN

1. GOOGLE LOGIN

Utilize OAuth 2.0 authentication to integrate Google login functionality into your application. Allow users to sign in with their Google accounts securely. Upon successful authentication, store necessary user information retrieved from Google, such as name and email, in your database.

2. UPLOAD IMAGE

Create an image upload feature that allows authenticated users to upload images from their devices. Implement validation to ensure that only valid image file formats are accepted for upload (e.g., JPEG, PNG). Store uploaded images in a secure location on the server or utilize cloud storage services like Google Cloud Storage.

3. ADMIN APPROVAL

Design an admin interface where authorized administrators can review uploaded images before they are made public. Implement functionality for admins to approve or reject uploaded images based on predefined criteria (e.g., appropriateness, relevance). Store the approval status of each image in the database to track the review process.

4. VIEW IMAGE IN GALLERY

Develop a user interface where authenticated users can browse and view approved images which is approved by the admin, if the user need to replace the image with their own image they can upload the image and wait for the admin approval





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

3.4 DATA FLOW DIAGRAMS (DFD)

3.4.1 INTRODUCTION

Data Flow Diagram is a network that describes the flow of data and processes that change, or transform, data throughout the system. This network is constructed by use a set of symbols that do not imply a physical implementation. It is a graphical tool for structured analysis of the system requirements. DFD models a system by using external entities from which data flows to a process, which transforms the data and creates, output-data-flows which go to other processes or external entities or files. Data in files may also flow to processes as inputs.

There are various symbols used in a DFD. Bubbles represent the processes. Named arrows indicate the data flow. External entities are represented by rectangles. Entities supplying data are known as sources and those that consume data are called sinks. Data are stored in a data store by a process in the system. Each component in a DFD is labelled with a descriptive name. Process names are further identified with a number.

The Data Flow Diagram shows the logical flow of a system and defines the boundaries of the system. For a candidate system, it describes the input (source), outputs (destination), database (files) and procedures (data flow), all in a format that meet the user's requirements.

The main merit of DFD is that it can provide an overview of system requirements, what data a system would process, what transformations of data are done, what files are used, and where the results flow.

This network is constructed by use a set of symbols that do not imply a physical implementation. It is a graphical tool for structured analysis of the system requirements. DFD models a system by using external entities from which data flows to a process, which transforms the data and creates, output-data-flows which go to other processes or external entities or files. External entities are represented by rectangles. Entities supplying data are known as sources and those that consume data are called sinks. Data are stored in a data store by a process in the system. It is a graphical tool for structured analysis of the system requirements. DFD models a system by using external entities from which data flows to a process, which transforms the data and creates, output-data-flows which go to other processes or external entities or files. Data in files may also flow to processes as inputs.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in


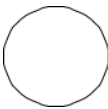

email: email@thecochoincollege.edu.in

FrameFolio

3.4.2 RULES FOR CONSTRUCTING DATA FLOW DIAGRAM

1. Arrows should not cross each other
2. Squares, circles and files must bear names.
3. Decomposed data flow squares and circles can have same time
4. Choose meaningful names for data flow
5. Draw all data flows around the outside of the diagram

3.4.3 BASIC DATA FLOW DIAGRAM SYMBOLS

	<p>A data flow is a route, which enables packets of data to travel from one point to another. Data may flow from a source to a process and from data store or process. An arrow line depicts the flow, with arrow head pointing in the direction of the flow.</p>
	<p>Circles stands for process that converts data in to information. A process represents transformation where incoming data flows are changed into outgoing data flows.</p>
	<p>A data store is a repository of data that is to be stored for use by a one or more process may be as simple as buffer or queue or sophisticated as relational database. They should have clear names. If a process merely uses the content of store and does not alter it, the arrowhead goes only from the store to the process. If a process alters the details in the store then a double-headed arrow is used.</p>





THE COCHIN COLLEGE

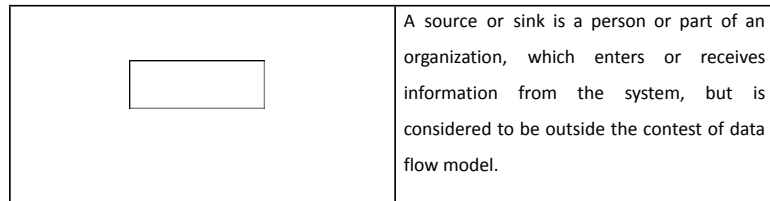
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

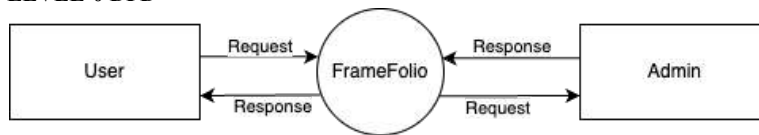
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

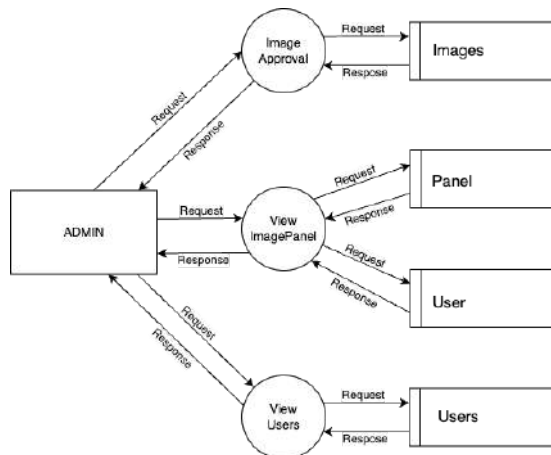
FrameFolio



LEVEL-0 DFD



LEVEL - 1 DFD (ADMIN)





THE COCHIN COLLEGE

KOCHI - 682 002

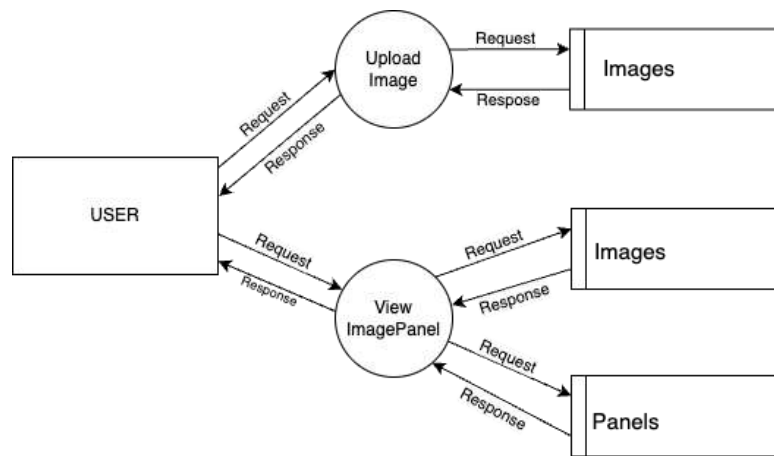
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

LEVEL - 2 DFD (USER)



3.5 E-R DIAGRAM

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships. ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes and diamond shapes to represent relationships.

Attributes: Attributes are the properties which define the entity type. In ER diagram, attribute is represented by an oval.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

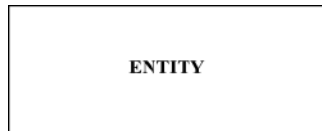
email: email@thecochincollege.edu.in

FrameFolio

Relationship: A relationship type represents the association between entity types. In ER diagram, relationship type is represented by a diamond.



Entity: An entity is an object or component of data. An entity is represented as rectangle in an ER diagram.





THE COCHIN COLLEGE

KOCHI - 682 002

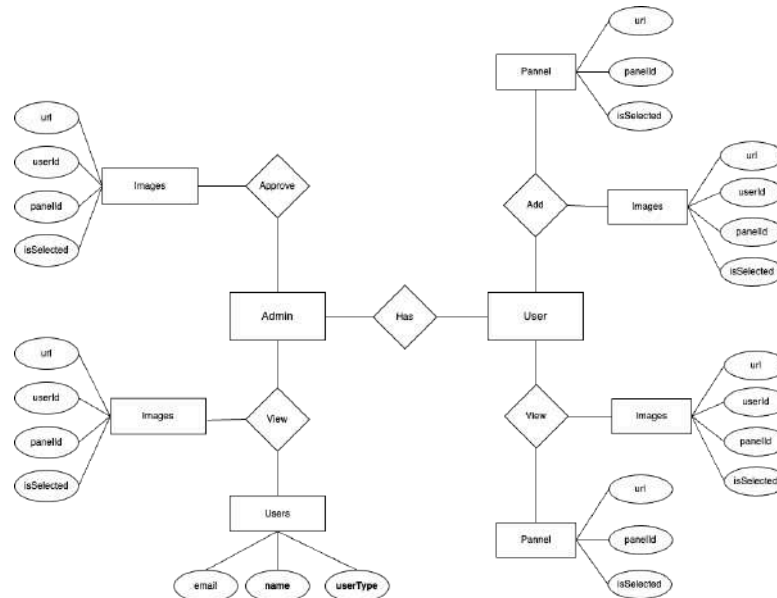
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

3.5.1 ENTITY RELATIONSHIP DIAGRAM (ER DIAGRAM)





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

3.6 TABLE DESCRIPTION

1) USER

Description :- Contain user data

Primary key:- id

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
id	string	Primary key	user id
name	string		user name
email	string		user email
uid	string		user id from google
userType	string		user type

2) PANEL

Description:- Holds the panel data

Primary key:- id

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
id	string	Primary key	Login id
panelNumber	string		panel numer





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

3) IMAGES

Description:- Hold the images data

Primary key:- id

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
id	string	Primary key	Panel Id
url	string		image url
userId	string	Forign Key	user Id
panelId	string	Forign Key	panel Id

4.SYSTEM TESTING

4.1 INTRODUCTION

The objective of system testing is to ensure that all individual programs are working as expected, that the programs link together to meet the requirements specified and to ensure that the computer system and the associated clerical and other procedures work together.

The initial phase of system testing is the responsibility of the analyst who determines what conditions are to be tested, generates test data, produced a schedule of expected results, runs the tests and compares the computer produced results with the expected results with the expected results. The analyst may also be involved in procedures testing. When the analyst is satisfied that the system is working properly, he hands it over to the users for testing. The importance of system testing by the user must be stressed. Ultimately it is the user must verify the system and give the go-ahead.

During testing, the system is used experimentally to ensure that the software does not fail, i.e., that it will run according to its specifications and in the way, users expect it to.

UNIT TESTING

The Cochin College

16

Department of Computer Application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

In computer programming, unit testing is a method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures are tested to determine if they are fit for use. In this testing we test each module individual and integrated the overall system. Unit testing focuses verification efforts on the smaller unit of software design in the module. This is also known as module testing. The modules of the system are tested separately. The testing is carried out during programming stage itself. In this testing step each module is found to working satisfactory as regard to the expected output from the module.

There are some validation checks for verifying the data input given by the user which both the formal and validity of the entered. It is very easy to find error debug the system. In this system four modules registration module, student module, teacher module and online exam module are tested separately.

INTEGRATION TESTING

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. Software components may be integrated in an iterative way or all together ("big bang"). Normally the former is considered a better practice since it allows interface issues to be located more quickly and fixed. Data can be lost across an interface; one module can have an adverse effort on the other sub functions when combined by, may not produce the desired major functions.

Integrated testing is the systematic testing for constructing the uncover errors within the interface. This testing was done with sample data. The developed system has run success full for this sample data. The need for integrated test is to find the overall system performance. In this testing the four modules registration module, student module, teacher module and online exam module are combined and tested as a group using sample data to find overall system performance.

VALIDATION TESTING

Software is completely assembled as a package, interface errors have been uncovered and corrected and final series of software tests, Validation tests begins. Validation testing can be defined many was but a simple definition is that validation succeeds when the software functions in a manner that can be reasonably accepted by the customer. Validation testing done using original data. After validation test has been conducted one of the two possible conditions exists.

- The function or performance characteristics confirm to specification and are accepted.
- A derivation from specification uncovered and a deficiency list is created

4.2 TEST CASES

PROJECT TITLE : FRAMEFOLIO

SOFTWARE TOOL : ReactJs, ThreeJs, NestJs, MongoDB





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

No	DATA INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	PASS/FAIL
1	Name	Name is required	Name is required	PASS
2	Email	Valid email is required	Valid email is required	PASS
3	Number	Valid number is required	Valid number is required	PASS
4	Password	Password must have at least 8 characters	Password must have at least 8 characters	PASS
5	Confirm password	Password must match	Password must match	PASS
6	Address	Address is required	Address is required	PASS
7	Admin Login	Login to the system is done using email and password.	Login to the system is done using email and password.	PASS
	User Login	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login.	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	
	Service Centre	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

FrameFolio

5. SYSTEM IMPLEMENTATION

5.1 INTRODUCTION

As the system is tested it starts to move into the implementation phase. Ideally the system should be completed and fully tested implementation gets under way but unless a package is being installed this seldom happens. Normally what happens is that parts of the system which are required for file set-up are completed first and this process gets under way. Conversion programs may also have to be available which allow data from another system to be used in setting up the files. Once this data is set up it must keep up-to-date and thus the first use is made of the new system. This may be followed by a period of parallel running and then a decision is made to drop the old system.

Implementation involved placing the completed and tested system of hardware and software into the actual work environment of the users. When systems personnel check out and put new equipment into use, train user personnel, install the new application, and construct any files of data needs to use it, we say it is implemented. There are both technical-and people-oriented activities during this stage. Examples of technical activities include converting data files, replacing old programs with new ones, and scheduling computer operations. Examples of people-oriented activities include orientation, training and support.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

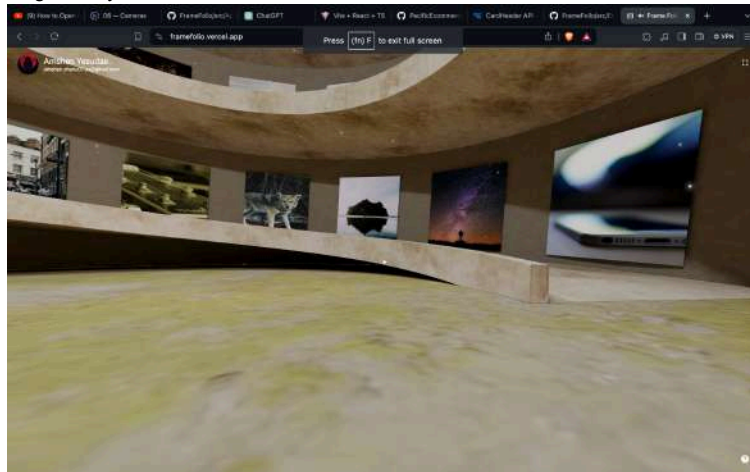
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

5.2 SCREENSHOTS

- Image Gallery





THE COCHIN COLLEGE

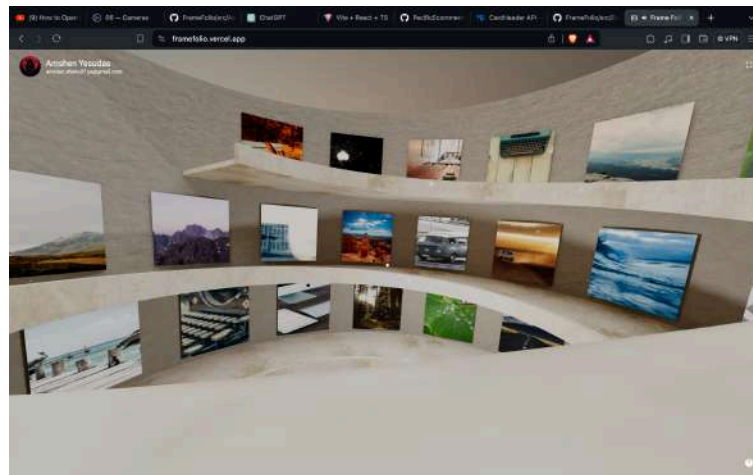
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio



• Recently Uploaded Image

Admin Panel

Recently Added Images

Id	Image	User Name	Panel Number	VIEW	APPROVE
0		John	1	VIEW	APPROVE
1		Alex	2	VIEW	APPROVE
2		Bob	3	VIEW	APPROVE
3		Emma	4	VIEW	APPROVE
4		Michael	5	VIEW	APPROVE



Mr. M. Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

FrameFolio

- Panel List

Id	Image	User Name	Panel Number
0		John	1
1		Alice	2
2		Bob	3
3		Emma	4
4		Michael	5

- Panel Image List

Id	Image	User Name	Email
0		John	amshen@gmail.com
1		Alice	amshen@gmail.com
2		Bob	amshen@gmail.com
3		Emma	amshen@gmail.com
4		Michael	amshen@gmail.com



Mendula Menon
Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

- Users List

ID	Name	Email
0	Jana Jana	jana.jana@exampl.com
1	Jana Jana	jana.jana@exampl.com
2	Jana Jana	jana.jana@exampl.com

- View Image

Admin Panel

Pannel 1 Images

ID	Image	User Name	Email
0			
1			
2			
3			
4			

View Details Modal:

APPROVE CLOSE



Mendula Menon
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

5.3 SOURCE CODE

1) Gallery.tsx

```
import * as THREE from "three";
import { GLTF } from "three-stdlib";
import { useEffect, useRef, useState } from "react";
import { Html, useGLTF, useTexture } from "@react-three/drei";
import { getAllImages, getImageBase64, uploadImageToFireStorage } from
'../Utils/helpers/imageProcessing';
import { useAuth } from '../Utils/userStore';
```

```
function Stadium(props: JSX.IntrinsicElements["group"]) {
  const { nodes } = useGLTF("models/stadium.gltf") as GLTFResult;
```

```
  const { isLoggedIn } = useAuth();
```

```
  const uploadInputRef = useRef<HTMLInputElement>(null);
  const imageGrpRef = useRef<THREE.Group>(null);
  const selectedImage = useRef<number>(-1);
```

```
  const [imgTexture, setImgTexture] = useState<THREE.Texture[]>([]);
```

```
  const textureLoader = new THREE.TextureLoader();
  const texture = useTexture("textures/render.jpg");
  texture.flipY = false;
  const material = new THREE.MeshStandardMaterial({ map: texture });
```

```
  const onSelectImage = (i: number) => {
```

```
    if (
      !isLoggedIn ||
      selectedImage.current === i ||
      !uploadInputRef.current
    ) return;
```

```
    selectedImage.current = i;
    uploadInputRef.current.click();
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

FrameFolio

```

};

const onImageUpload = (e: any) => {
  const file = e.target.files[0];

  if(!file) return;

  getImageBase64(file).then((url)=>{

    uploadImageToFireStorage(url.split(',')[1],seletedImage.current);

    textureLoader.load(url,(texture)=>{
      texture.flipY = false;
      // @ts-ignore
      imageGrpRef.current.children[seletedImage.current].material.map = texture;
    })
  });
};

useLayoutEffect(() => {
  const tempTextures: THREE.Texture[] = [];

  getAllImages.then((urls)=>{

    for (let i = 0; i < 44; i++) {
      const imgTexture = textureLoader.load(
        urls[i+1] || `https://picsum.photos/800/1200?seed=${100 + i}`
      );
      imgTexture.flipY = false;

      tempTextures.push(imgTexture);
    }

    setImgTexture(tempTextures);
  });
};

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

```

    })

    // eslint-disable-next-line react-hooks/exhaustive-deps
  }, []);

  return (
    <group {...props} dispose={null}>
      <Html>
        <input
          type="file"
          onChange={onImageUpload}
          ref={uploadInputRef}
          hidden
        />
      </Html>

      <mesh name="stare" geometry={nodes.stare.geometry} material={material} />
      <mesh name="wall" geometry={nodes.wall.geometry} material={material} />
      <mesh name="floor" geometry={nodes.floor.geometry} material={material} />

      <group ref={imageGrpRef}>
        {imgTexture.map((d, i) => {
          const num = (i + 1).toString().padStart(3, "0");

          return (
            <mesh
              key={i}
              name={`Image${num}`}
              //@ts-ignore
              geometry={nodes[`Image${num}`][`geometry`]}
              onClick={() => onSelectImage(i)}
            >
              <meshStandardMaterial map={d} />
            </mesh>
          );
        })}
      </group>
    </group>
  );

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

```

    </group>
  );
}

useGLTF.preload("models/stadium.gltf");

export default Stadium;

```

2) Admin Home

```

import Table from '@mui/material/Table';
import TableBody from '@mui/material/TableBody';
import TableCell from '@mui/material/TableCell';
import TableContainer from '@mui/material/TableContainer';
import TableHead from '@mui/material/TableHead';
import TableRow from '@mui/material/TableRow';
import Paper from '@mui/material/Paper';
import { Button, Dialog, DialogActions, DialogContent, DialogTitle, Typography } from '@mui/material';

```

```

type RecentImagesType = {
  user: string;
  image: string;
  pannelNumber: number;
}

```

```

export default function Home() {

```

```

  return (
    <main className='main_container' >
    <header>
    <Typography variant='h5' >Admin Panel</Typography>
    </header>
    <Typography variant='h5' sx={{ mb:1 }} >Recently Added Images</Typography>
    <TableContainer component={Paper}>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

```

<Table sx={{ minWidth: 650 }} aria-label="simple table">
  <TableHead>
    <TableRow>
      <TableCell align="center" >id</TableCell>
      <TableCell align="center">Image</TableCell>
      <TableCell align="center">User Name</TableCell>
      <TableCell align="center">Pannel Number</TableCell>
    </TableRow>
  </TableHead>
  <TableBody>
    {rows.map((row:RecentImagesType,i:number) => (
      <TableRow
        key={i}
        sx={{ '&:last-child td, &:last-child th': { border: 0 } }}
      >
        <TableCell align="center">{i}</TableCell>
        <TableCell align="center" scope="row">
          <img src={`https://picsum.photos/800/1200?seed=${i}`} alt=""
            className='uploadedImg' />
        </TableCell>
        <TableCell align="center">{row.user}</TableCell>
        <TableCell align="center">{row.pannelNumber}</TableCell>
        <TableCell align="center">
          <Button sx={{mr:2}} >View</Button>
          <Button variant='outlined' color='success' >Approve</Button>
        </TableCell>
      </TableRow>
    ))}
  </TableBody>
</Table>
</TableContainer>
<Dialog open={false} fullWidth >
  <DialogTitle title='View Details'>View Details</DialogTitle>
  <DialogContent>
    
  </DialogContent>
  <DialogActions>
    <Button variant='contained' color='success' >Approve</Button>
    <Button variant='outlined' color='error' >Close</Button>
  </DialogActions>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

```

</Dialog>
</main>
);
}

```

3) Images.tsx

```

import Table from '@mui/material/Table';
import TableBody from '@mui/material/TableBody';
import TableCell from '@mui/material/TableCell';
import TableContainer from '@mui/material/TableContainer';
import TableHead from '@mui/material/TableHead';
import TableRow from '@mui/material/TableRow';
import Paper from '@mui/material/Paper';
import { Button, Dialog, DialogActions, DialogContent, DialogTitle, Typography } from
 '@mui/material';

type RecentImagesType = {
  user: string;
  image: string;
  pannelNumber: number;
}

export default function Images() {

  return (
    <main className='main_container' >
    <header>
    <Typography variant='h5' >Admin Panel</Typography>
    </header>
    <Typography variant='h5' sx={{ mb:1 }} >Pannel 1 Images</Typography>
    <TableContainer component={Paper}>
    <Table sx={{ minWidth: 650 }} aria-label="simple table">
    <TableHead>
    <TableRow>
    <TableCell align='center' >Id</TableCell>
    <TableCell align="center">Image</TableCell>
    <TableCell align="center">User Name</TableCell>
    <TableCell align="center">Email</TableCell>

```

The Cochin College

29

Department of Computer Application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

FrameFolio

```

</TableRow>
</TableHead>
<TableBody>
{rows.map((row:RecentImagesType,i:number) => (
<TableRow
key={i}
sx={{ '&:last-child td, &:last-child th': { border: 0 } }}
>
<TableCell align="center">{i}</TableCell>
<TableCell align="center" scope="row">
<img src={ `https://picsum.photos/800/1200?seed=${i}` } alt="" className='uploadedImg'
/>
</TableCell>
<TableCell align="center">{row.user}</TableCell>
<TableCell align="center">amshen@gmail.com</TableCell>
<TableCell align="center">
<Button sx={{mr:2}} >View</Button>
<Button variant='outlined' color='success' >Approve</Button>
</TableCell>
</TableRow>
)))
</TableBody>
</Table>
</TableContainer>
<Dialog open={true} fullWidth >
<DialogTitle title='View Details'>View Details</DialogTitle>
<DialogContent>

</DialogContent>
<DialogActions>
<Button variant='contained' color='success' >Approve</Button>
<Button variant='outlined' color='error' >Close</Button>
</DialogActions>
</Dialog>
</main>
);
}

```

4) Backend images.service.ts
import { Injectable } from '@nestjs/common';





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

```
import { PrismaService } from 'src/service/prisma/prisma.service';
import { UploadImageDto } from './dto/upload-image.dto';
import { ApproveImageDto } from './dto/approve-image.dto';

@Injectable()
export class ImagesService {
  constructor(private prisma: PrismaService) {}

  async upload(data: UploadImageDto) {
    const userData = await this.prisma.users.findFirst({
      where: { email: data.email },
    });

    const imageData = await this.prisma.images.create({
      data: {
        url: data.url,
        userId: userData.id,
        pannellId: data.pannellId,
      },
    });

    return imageData;
  }

  getAllImagesOfPannel(id: string) {
    return this.prisma.pannel.findMany({
      where: {
        id: id,
      },
      include: {
        images: true,
      },
    });
  }

  getAllPannels() {
    return this.prisma.pannel.findMany({
      include: {
        images: {
          where: { isSelected: true },
        },
      },
    });
  }
}
```

The Cochin College

31

Department of Computer Application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

```

},
},
});
}

async approveImage(data: ApproveImageDto) {
  await this.prisma.images.updateMany({
    where: {
      isSelected: true,
      pannel: { id: data.pannelId },
    },
    data: {
      isSelected: false,
    },
  });

  const imageData = await this.prisma.images.updateMany({
    where: {
      id: data.imageId,
    },
    data: {
      isSelected: true,
    },
  });

  return imageData;
}
}

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

6. CONCLUSION AND FUTURE SCOPE

6.1 CONCLUSION

The project was successfully completed within the time span allotted. All the modules are tested separately and put together to form the main system. Finally, the modules are tested with real data and it worked successfully. Thus the system has fulfilled the entire objective defined.

This project will help the user to reduce man power and consume less time purchasing smart gadgets without going to the shop. Our goal of developing this "Framefolio" has come to a good result without many defects.

The main motive for developing this system is for the welfare of the society by giving all time access to a set of smart gadgets.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio

6.2 FUTURE ENHANCEMENTS

The system has been designed in such a way that it can be modified with very little effort when such needs arise in the future. New features can be added with slight modifications of software which make it easy to expand the scope of this project. Though the system is working on various assumptions, it can be modified easily to any kind of requirements.

Even though we have tried our best to present the information effectively and efficiently, yet there can be further enhancement in the application. We have taken care of all the critical aspects, which were needed to be taken care of. because of fast changes in the world of programming this system will gradually get outdated and less effective. For the time being it's possible to overcome problems by amendments and minor modifications to acknowledge the need of fundamental design. Though the new system provides base for improving the efficiency of operations, there are a lot of future enhancements that can be added to this project. Keeping this in view, a provision has been made in the system to facilities easy modification updating in the future. Any modification will not affect the normal working of the system. It can also be converted into a mobile application.

6.3 BIBLIOGRAPHY

- <http://www.w3schools.com>
- <http://www.tutorialspoint.com>
- <http://www.stackoverflow.com>





THE COCHIN COLLEGE

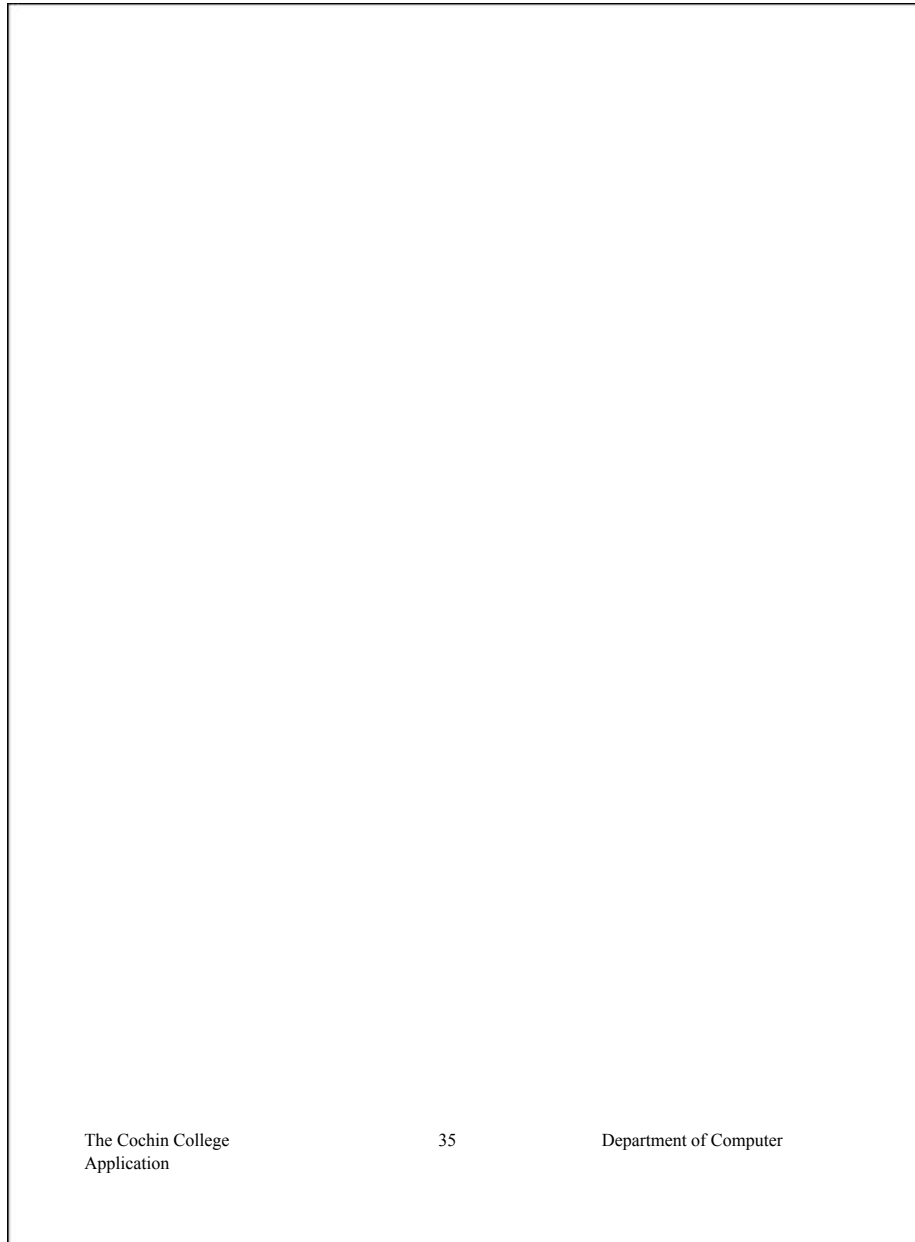
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FrameFolio



The Cochin College
Application

35

Department of Computer





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On

"FrameFolio"

Submitted by

Amshen Yesudas
(210021090175)

In partial fulfillment for the award of the degree
of
Bachelor of Computer Application
of
Mahatma Gandhi University
Kottayam -686560



THE COCHIN COLLEGE

KOOVAPADAM-682002, ERNAKULAM
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "FrameFolio" submitted by **AMSHEN YESUDAS (210021090175)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bona.fide work carried out by him during the academic year 2021-2024.

HRIDYA K.S
Project Guide

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on 17/04/2024 at The cochin college.

Internal Examiner

External Examiner





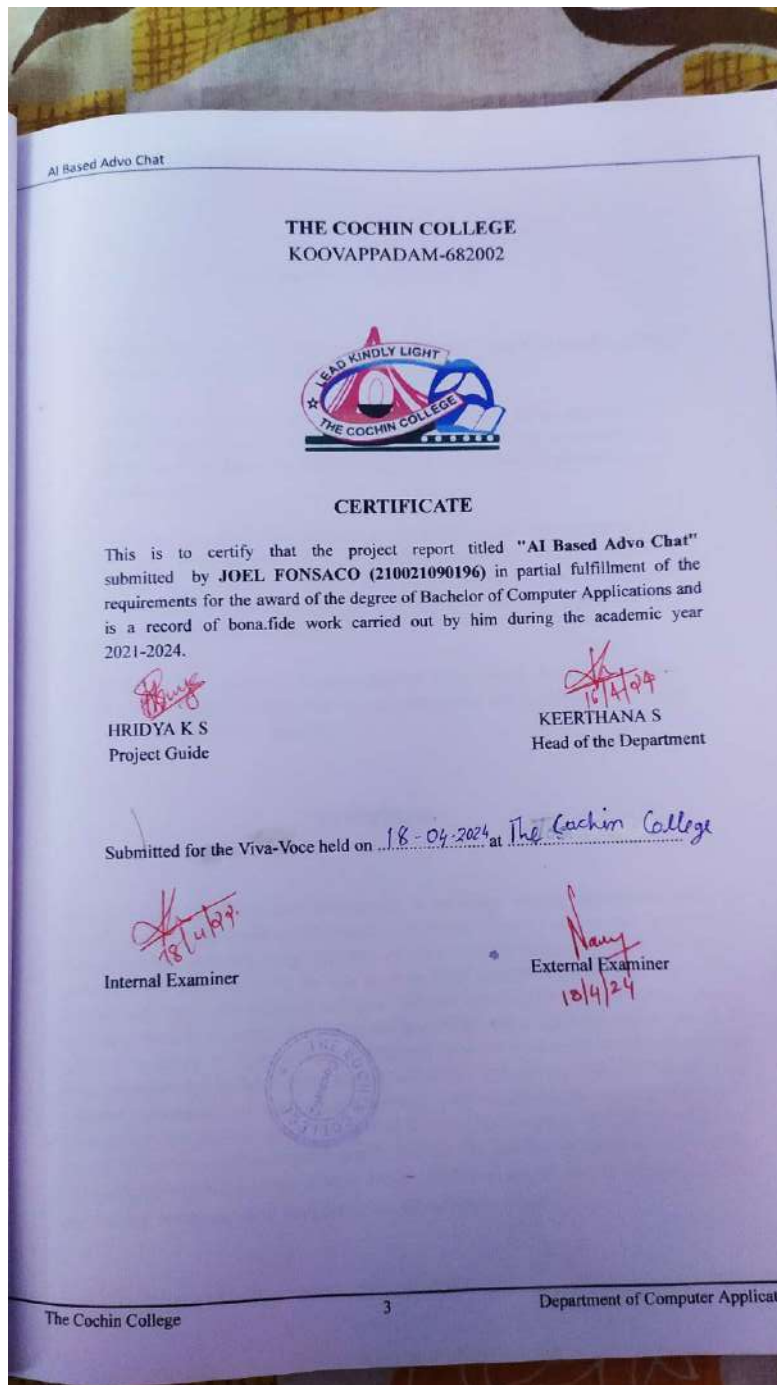
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in



Mendula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



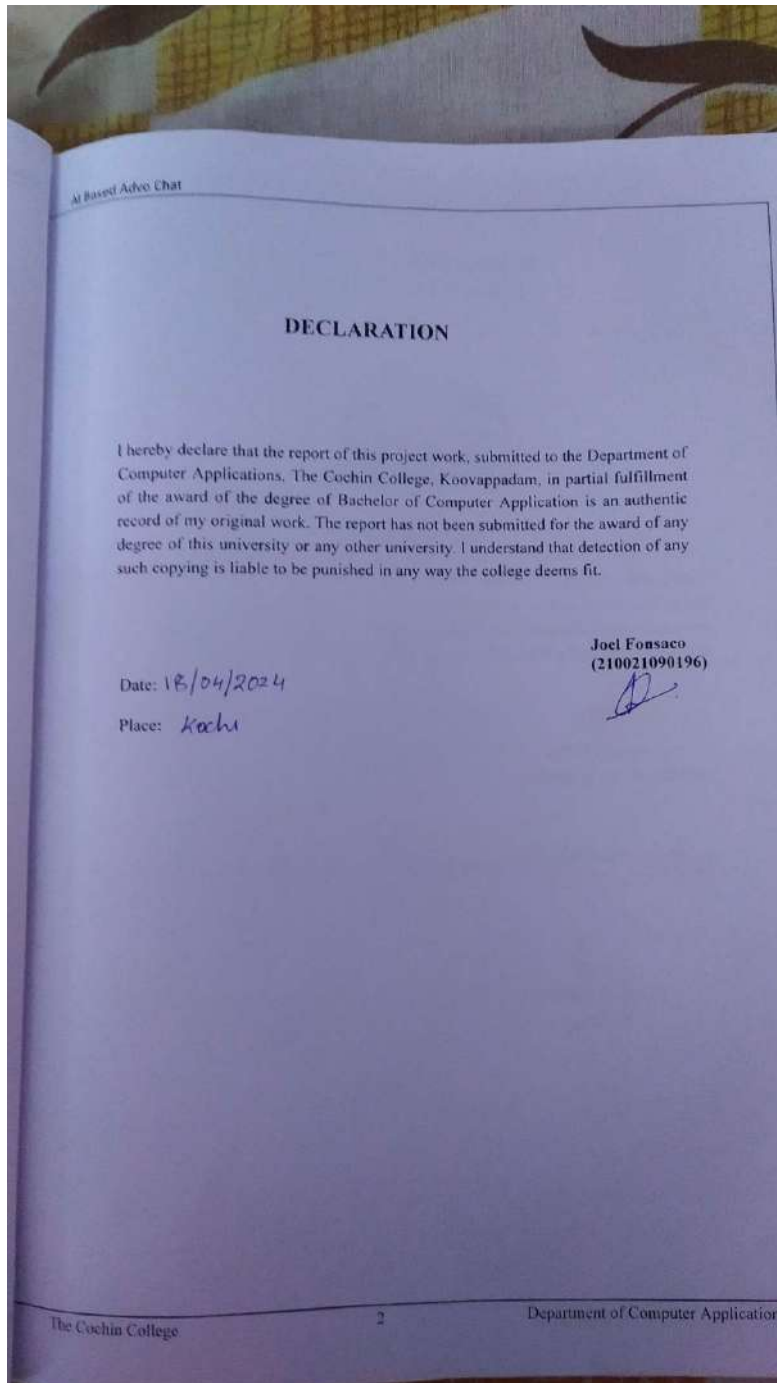
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



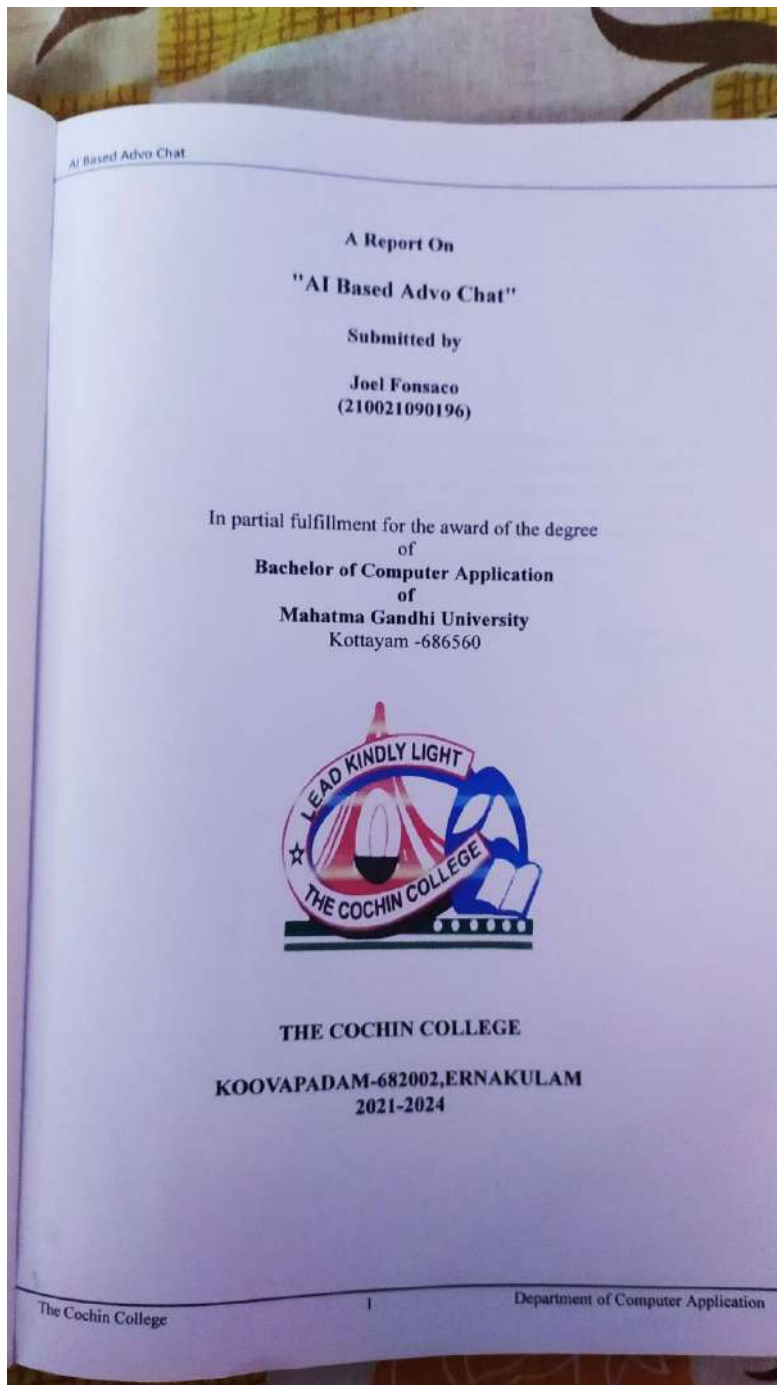
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SAFE KERALA

A Report On
Safe Kerala

Submitted by,
SONA TREESA C.P
(210021090221)

In partial fulfillment for the award of the degree

Of
Bachelor of Computer Application

Of
Mahatma Gandhi University
Kottayam -686560



THE COCHIN COLLEGE
KOOVAPPADAM-682002, ERNAKULAM
2021-2024

The Cochin College

1

Department of computer application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SAFE KERALA

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

SONA TREESA C.P (210021090221)

Date:

Place:

The Cochin College

2

Department of computer application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SAFE KERALA

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "Safe kerala" submitted by SONA TREESA C.P (210021090221), in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024

KEERTHANA S

Project Guide

KEERTHANA S

Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner

The Cochin College

3

Department of computer application



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SAFE KERALA

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

We convey our sincere thanks to **Ms. KEERTHANA S**, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

We express our deep sense gratitude to our project guide, **Ms. KEERTHANA S**, HOD, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout our project, without which the project could not have been accomplished successfully.

We also wish to extend our heartfelt gratitude to our parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success

The Cochin College

4

Department of computer application





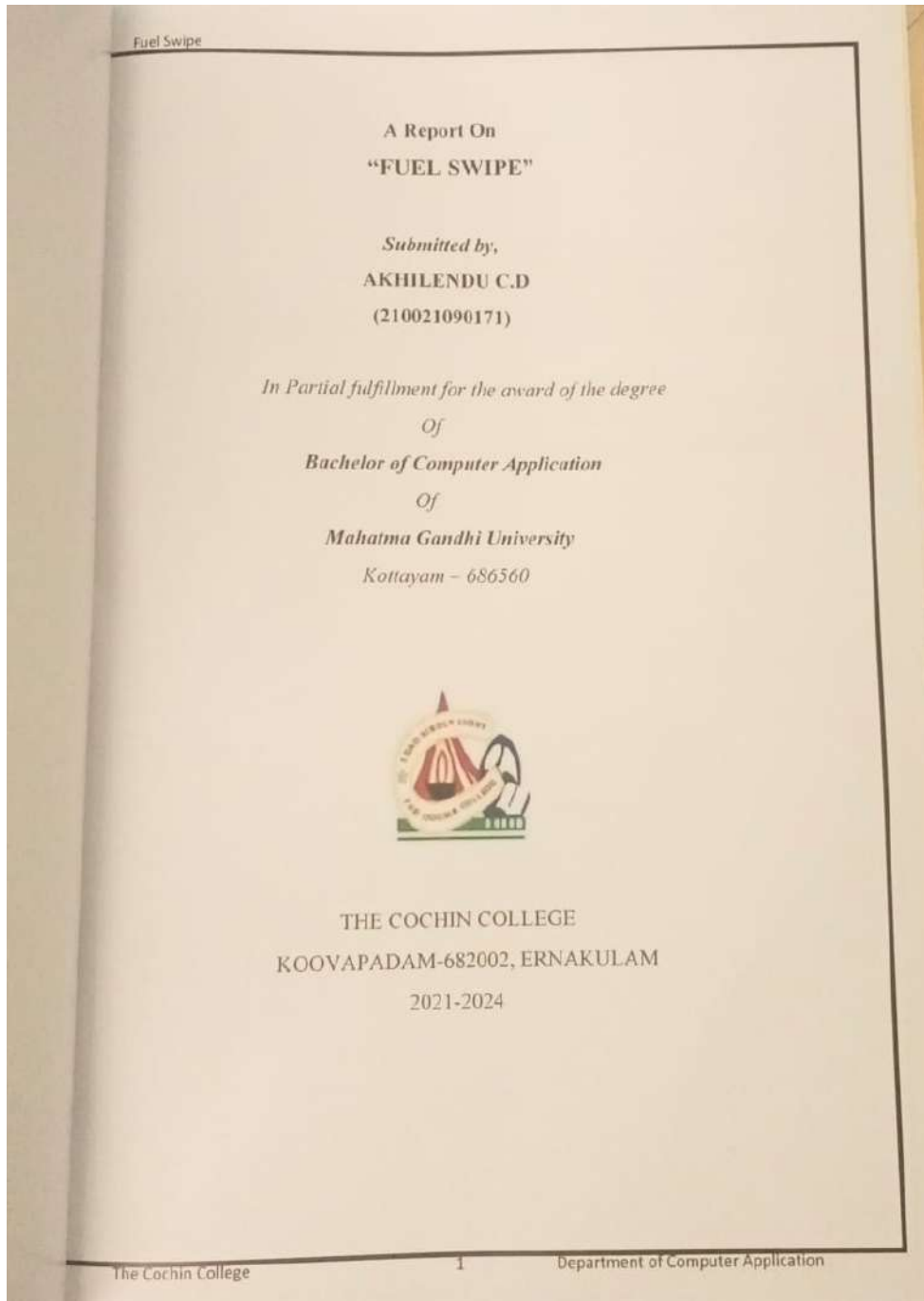
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Fuel Swipe

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovapadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

Akhilendu C.D
AKHILENDU C.D (210021090171)

Date *17/04/2024*
Place *Kochi*

The Cochin College 2 Department of Computer Application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





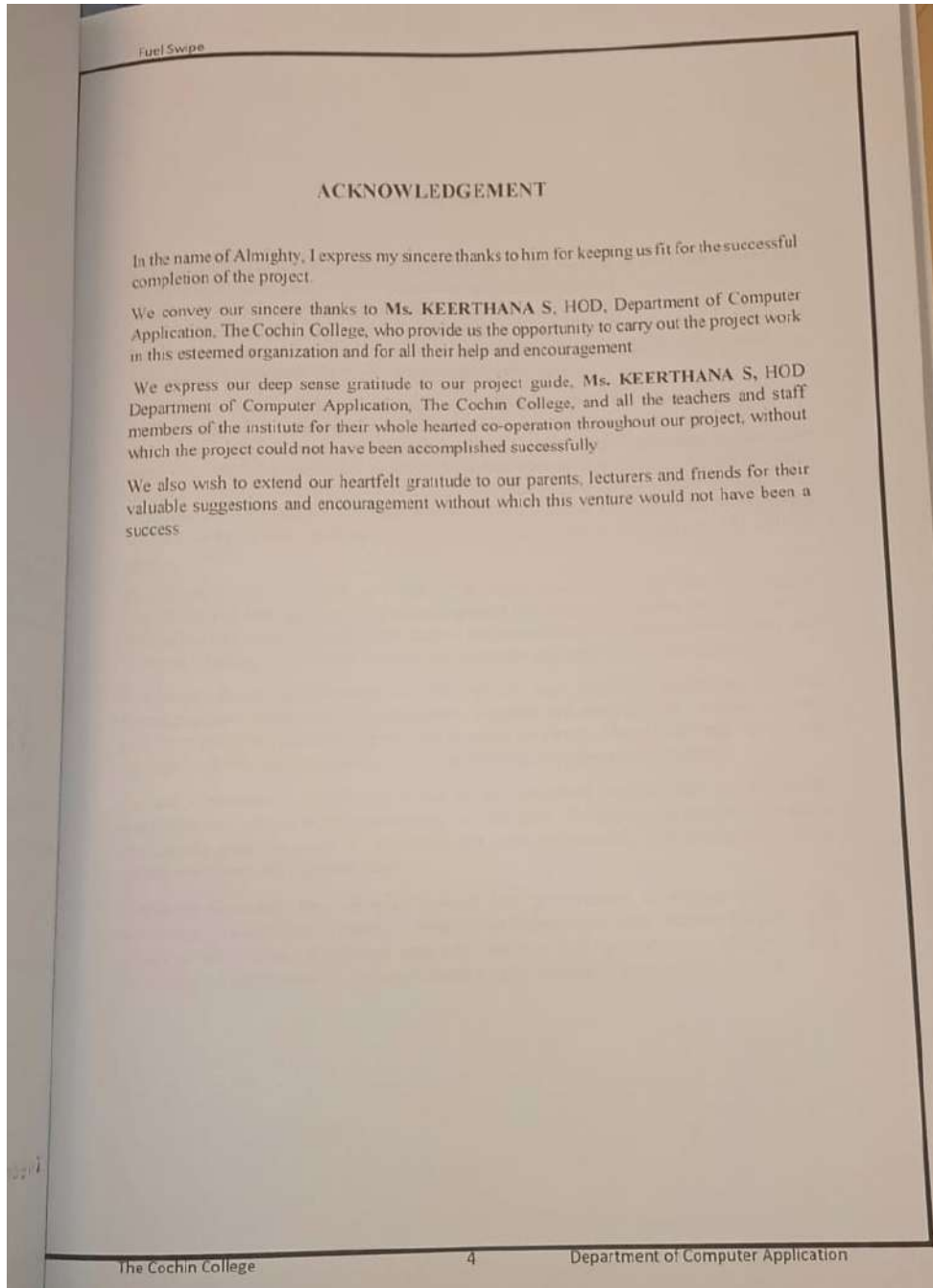
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





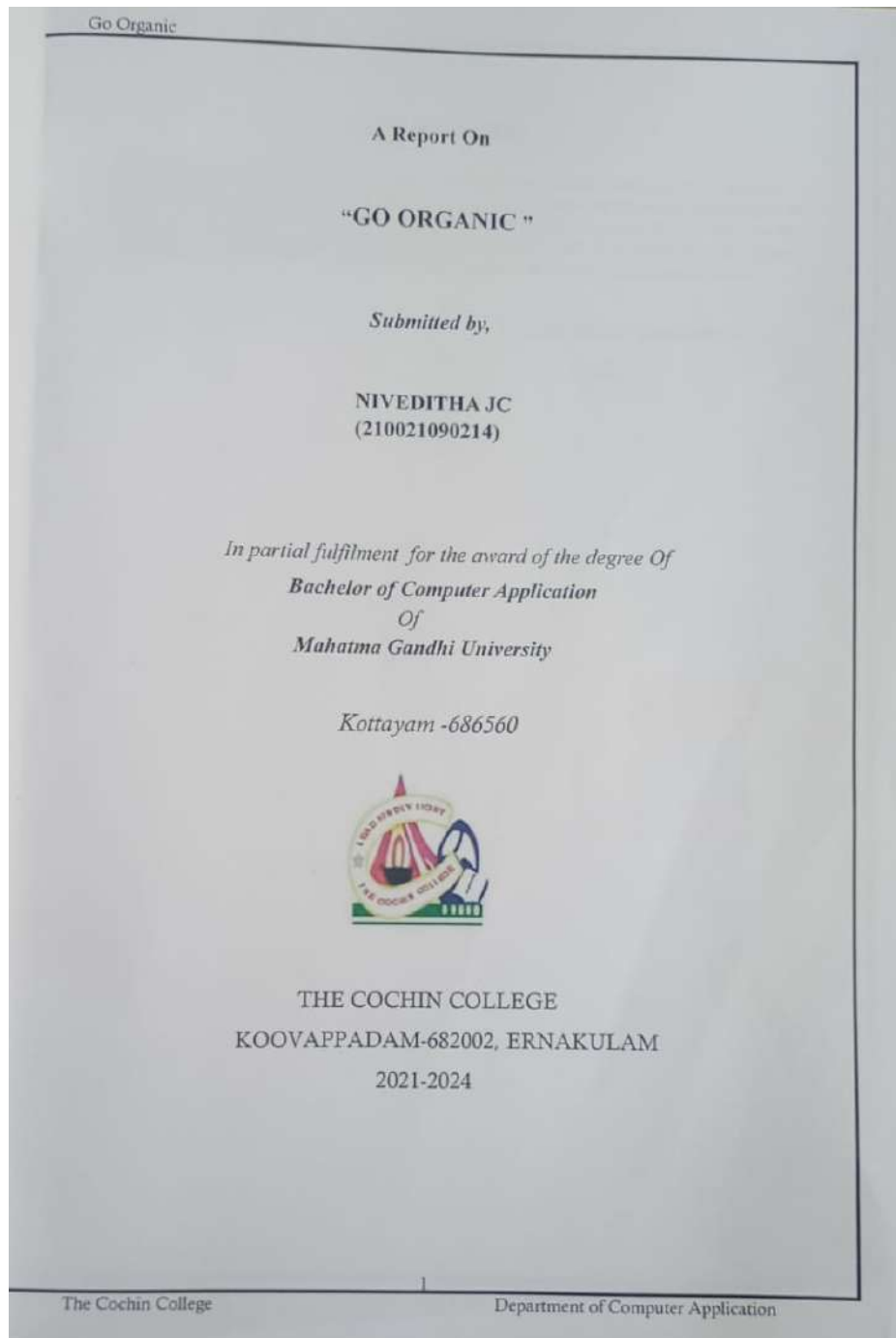
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Go 43 Y

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

NIVEDITHA JC (210021090214)

Netha

Date: 19-4-2024

Place: *Kochi*

2

The Cochin College Department of Computer Application





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Go Organic

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "GO ORGANIC" submitted by NIVEDITHA JC (210021090214) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by her during the academic year 2021-2024


HRIDYA K S
Project Guide


KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on 19.4.2024.....at The Cochin college


Internal Examiner




External Examiner

The Cochin College 3 Department of Computer Application




Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

We convey our sincere thanks to Ms. KEERTHANA S, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

We express our deep sense gratitude to our project guide, Ms. HRIDYA K S, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout our project, without which the project could not have been accomplished successfully.

We also wish to extend our heartfelt gratitude to our parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report on
"TURF BOOKING AND
WEATHER PREDICTIONS"

Submitted by,
ASLAM N A (210021090180)

In partial fulfilment for the award of degree
Of
Bachelor of Computer Applications
Of
Mahatma Gandhi University

Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM- 682002
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

DECLARATION

I hereby declare that the report of the project work submitted to the Department of Computer Applications, The Cochin College, Koovapadam, in partial fulfilment of the award of the Degree of Computer Applications is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university.

I understand the detection of any such copying is liable to be punished in any way the college deems fit.

ASLAM N A (210021090180)

Date:

Place:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE

KOOVAPADAM 682002



CERTIFICATE

This is to certify that the project report titled "TURF BOOKING AND WEATHER PREDICTION" submitted by ASLAM N A (210021090180 in partial fulfilment of the award of the Degree Of Computer Applications and is record of bonafide work carried out by me in the academic year 2021-2024.

MRS.HRIDHYA K S

PROJECT GUIDE

MRS. KEERTHANA SHYAM

HEAD OF THE DEPARTMENT

Submitted for the Viva-voce held on at

INTERNAL EXAMINER

EXTERNAL EXAMINER

The Cochin college

3

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

BUS TRACKING

THE COCHIN COLLEGE
Koovapadam -682002



CERTIFICATE

This is to certify that the project report titled "BUS TRACKING SYSTEM" submitted by **FATHIMA.K.D (210021090189)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024


 AMALA MARY Project Guide	 KEERTHANA S Head of the department
---	--

Submitted for the Viva-Voce held on 19.04.2024..... at THE COCHIN COLLEGE

 Internal Examiner	 External Examiner  19/4/24
--	--

DEPARTMENT OF COMPUTER APPLICATIONTHE COCHIN COLLEGE




Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On

“Machine and Workers Rental System”

Submitted by,

Arun Jayaprakash

(210021090178)

In partial fulfilment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi College

Kottayam – 696560



THE COCHIN COLLEGE

KOOVAPPADAM – 682002, ERNAKULAM

2021 - 2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "Restoran" submitted by Maxwin Francis (200021090202) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024.

Ms.KEERTHANA S
Project Guide

Ms.KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on.....at.....

Internal Examiner

External Examiner





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On

"Restoran"

Submitted by,

Maxwin Francis

(210021090202)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University Kottayam 686560



THE COCHIN COLLEGE

KOOVAPPADAM-682002, ERNAKULAM

2021-2024





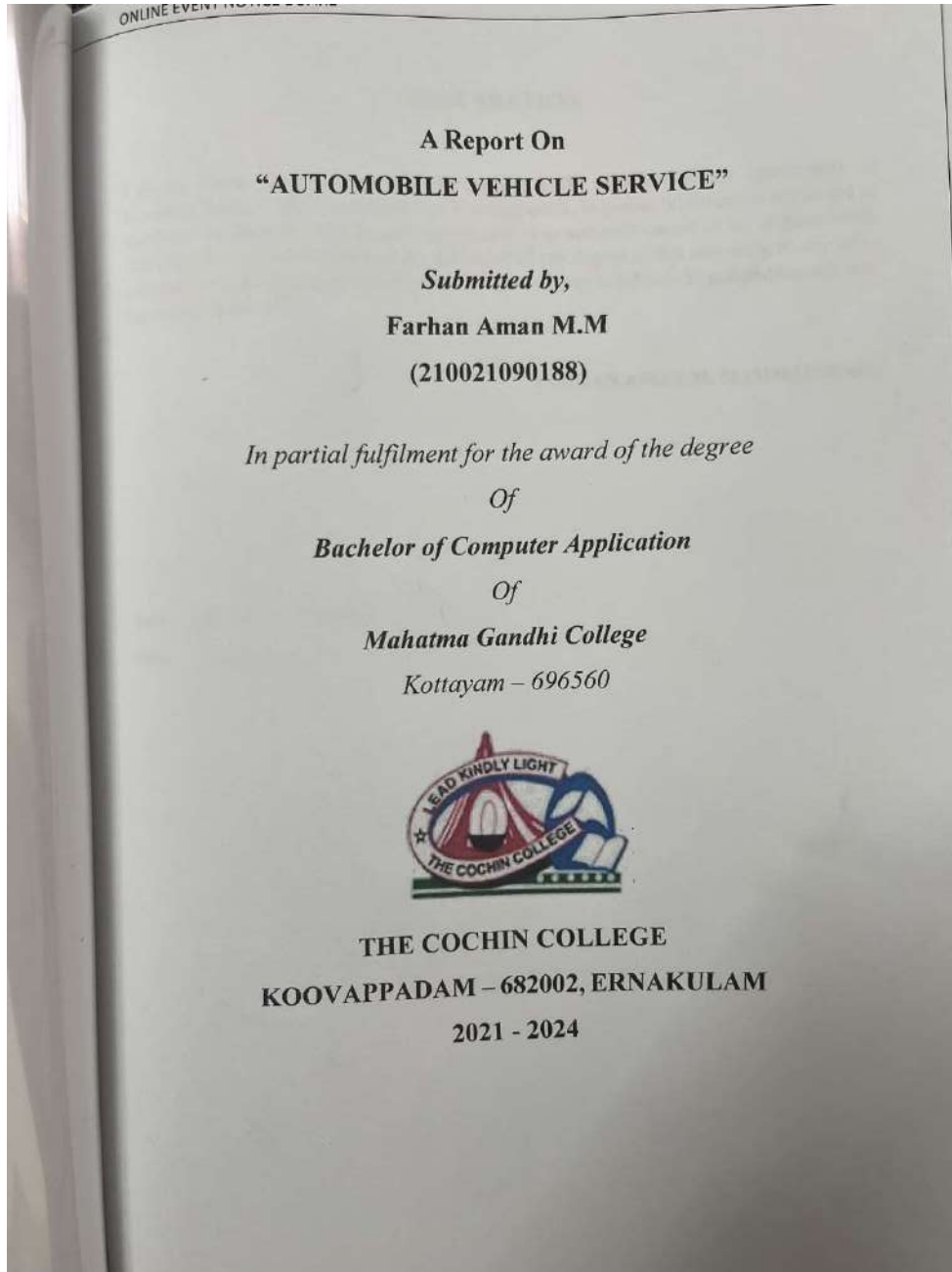
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report on
"LANDHUB"

Submitted by,

AZADULLAH HASEEM
(210021090182)

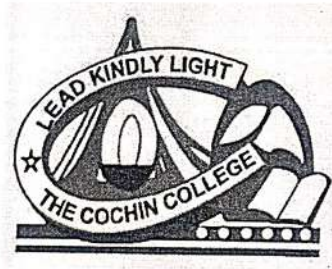
In partial fulfilment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University Kottayam-686560



THE COCHIN COLLEGE

KOOVAPADAM-682002, ERNAKULAM

2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "LANDHUB" Submitted by AZADULLAH HASEEM (210021090182) in partial fulfilment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of Bonafide work carried out by him during the academic year 2021-2024.

ANISHA ANTONY V A
Project Guide

KEERTHANA S
Head of the Department

Submitted for the Viva-Voce held on 17/4/2024 at The Cochin College

Internal Examiner



External Examiner





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On
"Law System"

Submitted by,

DERIN V J

(210021090184)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University

Kottayam -686560



THE COCHIN COLLEGE
KOOVAPADAM- 682002, ERNAKULAM

2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

THE COCHIN COLLEGE

KOOVAPADAM – 682002



CERTIFICATE

This is to certify that the project report titled "Law System" submitted by DERIN V J (210021090186) in partial fulfillment of the award of the degree of Bachelor of computer Application and is a record of bonafide work carried out by him during the academic year 2021-2024.

SHINDA VARGHESE

Project Guide

KEERTHANA S

Head of the Department

Submitted for the viva-voce held on...17-04-2024... at ...COCHIN COLLEGE.....

Internal Examiner



External Examiner





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

BLOOD BANKING SYSTEM

THE COCHIN COLLEGE
Koovapadam -682002



CERTIFICATE

This is to certify that the project report titled "BLOOD BANKING SYSTEM" submitted by IBABINDH MOHAMED SHARIF (210021090193) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024

For *Anisha*
18/4/24
AMALA MARY
Project Guide

Keerthana S
18/4/24
KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on *18/04/2024*..... at *The Cochin college*

Anisha
18/4/24
Internal Examiner



Nancy
18/4/24
External Examiner

THE COCHIN COLLEGE 3 DEPARTMENT OF COMPUTER APPLICATION





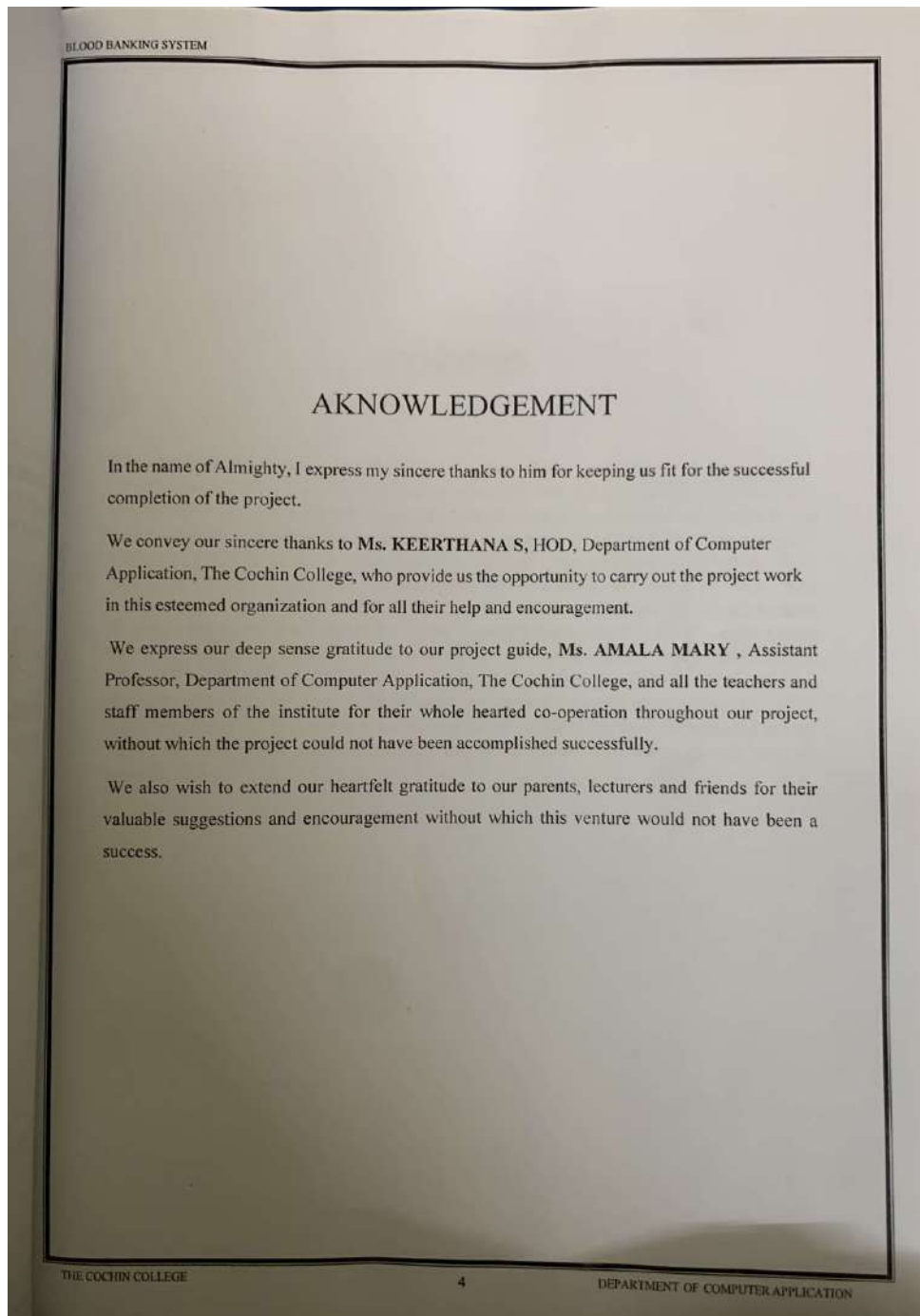
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





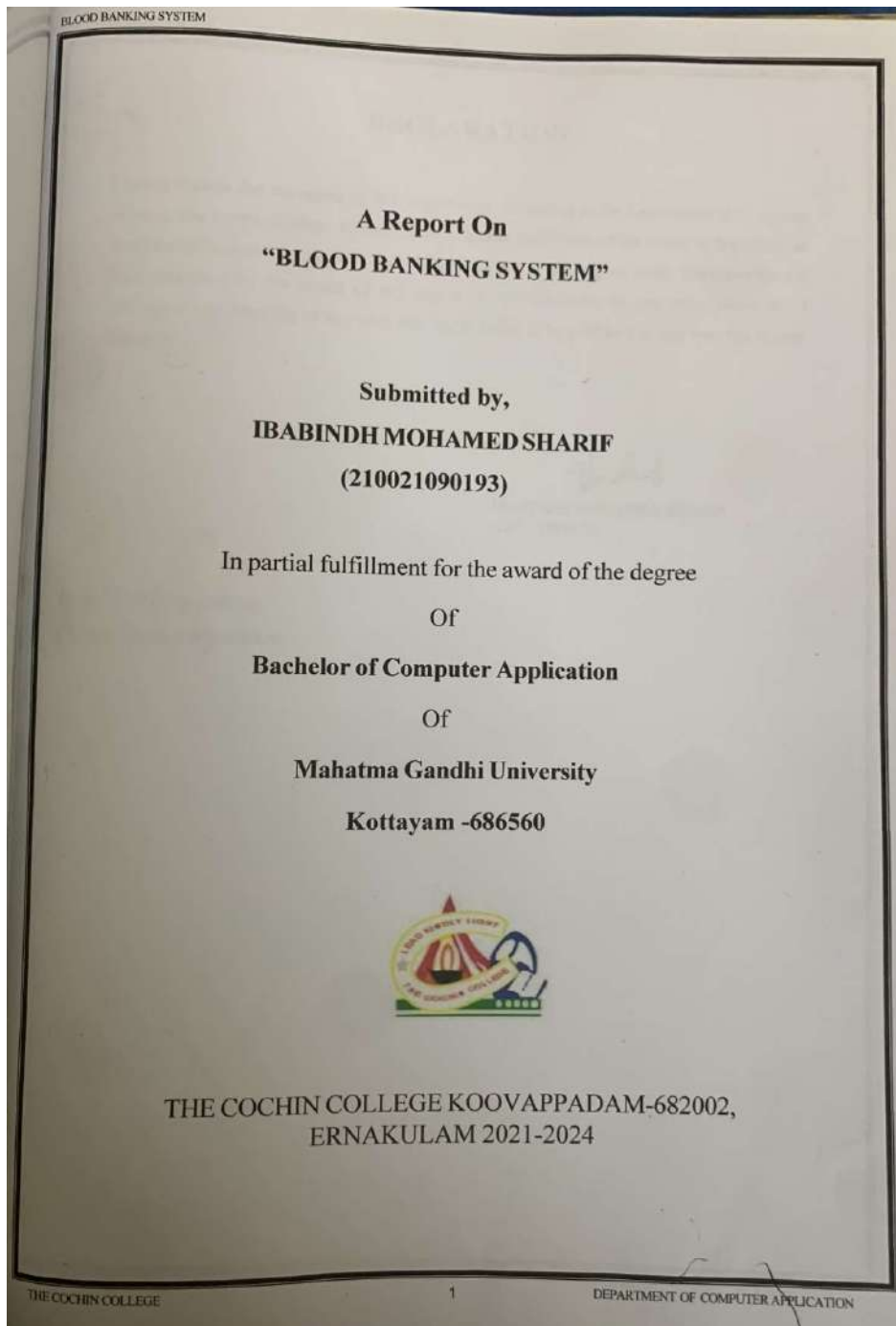
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

**A Report On
"MEET AND PLAY"**

Submitted by,

**DON PRASAD
(210021090185)**

In Partial fulfilment for the award of the degree

Of

Bachelor of Compute Application

Of

Mahatma Gandhi University

Kottayam – 686560



THE COCHIN COLLEGE
KOOVAPADAM- 682002 , ERNAKULAM
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Application, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

DON PRASAD
(210021090185)

Date:

Place:





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "PLASTIC RECYCLING" submitted by DON PRASAD (210021090185) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024

HRIDYA K S
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner



Mendula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful completion of the project.

We convey our sincere thanks to **Ms. KEERTHANA S**, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

We express our deep sense gratitude to our project guide, **Ms. HRIDYA K S**, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout our project, without which the project could not have been accomplished successfully.

We also wish to extend our heartfelt gratitude to our parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

SYNOPSIS

The "Meet and Play" Android app serves as an all-in-one solution for coaches and team leaders to efficiently manage and coordinate their sports teams. With intuitive features and comprehensive functionalities, this app streamlines team organization, player development, and game preparation processes. Users can establish clear team structures, assign roles and responsibilities, and communicate seamlessly with coaching staff and players. The app offers customizable training programs tailored to individual player needs, facilitating skill development and physical conditioning. Coaches can strategize for upcoming games, analyze opponents, and make real-time adjustments during competitions, all within the app's interface. Additionally, the app fosters team unity and cohesion through effective communication channels, feedback mechanisms, and conflict resolution tools. By prioritizing player well-being and support, the app ensures a holistic approach to team management, empowering coaches and leaders to maximize their team's potential both on and off the field. Whether it's organizing practices, planning strategies, or nurturing team dynamics, the "Coordinating Sports Team" app provides the essential tools for success in sports team management.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

TABLE OF CONTENTS

SL NO.	TITLE	PAGE NO
1	INTRODUCTION	
1.1	Overview of the project	8
1.2	Objectives of the Project	8
1.3	Scope of the Project	8
2	SYSTEM ANALYSIS	
2.1	Introduction	9
2.2	Identification of Need	9
2.3	Existing System	9
2.4	Proposed System	10
2.5	Functional Specification	10
2.6	User Specification	11
2.7	System Specification	11
2.7.1	Hardware Specification	11
2.7.2	Software Specification	12
3	FEASIBILITY STUDY	
3.1	Operational feasibility	15
3.2	Technical feasibility	16
3.3	Economical feasibility	17
3.4	Behavioural feasibility	17





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

4	SYSTEM DESIGN	
4.1	Input Design	18
4.2	Output Design	19
4.3	Database Design	19
4.4	Process Design	20
4.5	Structure Design	20
4.6	Data Flow Diagram (DFD)	20
4.7	Entity Relationship Diagram (ER Diagram)	26
4.8	Table Description	27
5	SYSTEM TESTING	
5.1	Introduction	33
5.2	Purpose of testing	33
5.3	Types of testing	34
5.4	Test Cases	36
6	SYSTEM IMPLEMENTATION	
6.1	Introduction	38
6.2	Screenshots	39
6.3	Source code	44
7	CONCLUSION AND FUTURE SCOPE	
7.1	Conclusion	59
7.2	Future Scope	59
7.3	Bibliography	59





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

1. INTRODUCTION

1.1 OVERVIEW OF THE PROJECT

The "Meet and play" Android app project is a comprehensive solution designed to streamline the management and coordination of sports teams. With a focus on empowering coaches and team leaders, the app provides a range of tools and functionalities to optimize team organization, player development, and game preparation processes. From establishing clear team structures and assigning roles to facilitating effective communication and strategizing game plans, the app aims to enhance team cohesion and performance. Additionally, customizable training programs tailored to individual player needs, along with features for analyzing opponents and making real-time adjustments during competitions, contribute to maximizing team effectiveness. By prioritizing player well-being and fostering a positive team culture, the app aims to create an environment conducive to success both on and off the field, ultimately empowering sports teams to achieve their goals and excel in their endeavors.

1.2 OBJECTIVES OF THE PROJECT

The objective of the "Meet and play" Android app project is to create a comprehensive and user-friendly platform that empowers coaches and team leaders to efficiently manage and coordinate sports teams. The app aims to streamline various aspects of team organization, player development, and game preparation processes. By providing tools for establishing clear team structures, assigning roles and responsibilities, and facilitating effective communication among coaching staff and players, the app seeks to enhance team cohesion and performance. Additionally, the project aims to prioritize player development by offering customizable training programs tailored to individual needs, as well as tools for strategizing game plans, analyzing opponents, and making real-time adjustments during competitions. Through these features, the app aims to promote a positive team culture, foster player well-being, and ultimately, maximize the success and effectiveness of sports teams.

1.2 SCOPE OF THE PROJECT

The scope of the "Meet and play" Android app project encompasses a wide range of functionalities aimed at providing comprehensive support for coaches and team leaders in managing sports teams effectively. The project includes features such as team organization tools, allowing users to establish clear team structures, assign roles, and communicate seamlessly with coaching staff and players. Additionally, the app will offer customizable training programs tailored to individual player needs, focusing on skill development, physical conditioning, and overall performance improvement. Game preparation features will enable coaches to strategize for upcoming matches, analyze opponents, and make real-time adjustments during competitions, thereby optimizing team performance. Furthermore, it will address player well-being by integrating features that support physical, emotional, and mental health needs, ensuring a holistic approach to team management. With an intuitive user interface and a comprehensive feature set, the "Meet and play" app aims to empower coaches and team leaders to maximize team potential and achieve success both on and off the field.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

2. SYSTEM ANALYSIS

2.1 INTRODUCTION

Analysis is the process of breaking the problem into the successively manageable parts for individual study, system analysis is the study of various operations that has to be done to solve the problem. one aspect of the system analysis is defining the boundaries of the system and determining whether or not be proposed system should consider other related systems. One of the main meanings of the feasibility is possibility checking of the different criteria for success is included in feasibility study section. these criteria's are cost, time, efficiency etc....all these factors play an important role in achieving objective of the system. that means the system should be such it gives optimum performance at minimum cost, time requirements. these system contributes to the overall objectives of the organization. the system be implemented using current technology and within given cost and schedule constraints. the system is integrated with systems which are already in place. It is a general term that refers to a structural process for identifying and solving problems. in a computer-based transformation system it is the structured approach. Analysis implies the process of breaching something down in to its parts so that the whole may be understood. The definition of system analysis, but also that of synthesis, which is the process of putting parts together to form a new whole.

2.2 IDENTIFICATION OF NEED

System analysis is the reduction of the entire system by studying various operations and their relationships with the system and the requirements of its successor. A system can be defined as an orderly grouping of interdependent components linked together according to plan to achieve a specific objective.

The idea of the system has become most practical and necessary in conceptualizing the interrelationships and integrations of operations especially when using computers. Organizing consists of several interrelated and interacting components. Analysis is the detailed study of various operations performed by the system and their relations within and outside the system. During analysis, data are connected on the available files, decision points and is handled by the present system.

2.3 EXISTING SYSTEM

To make computation and data entry easy we need a digitalized system. The existing system may lack advanced features for performance tracking, detailed player statistics, and administrative capabilities for managers. The user interface and overall user experience might also be limited, potentially leading to inefficiencies in managing teams effectively. Despite its basic functionalities, the existing system serves as a foundation for team organization but may





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

not fully meet the diverse needs and demands of coaches, players, and managers in modern sports environments.

2.4 PROPOSED SYSTEM

The aims to streamline the administration and organization of sports teams by providing a comprehensive platform for coaches, players, and physio. This app will offer features such as roster management, scheduling, communication tools, and performance tracking. Coaches will be able to create and manage team rosters, schedule practices and games, and track player attendance and performance statistics. Players will have access to their schedules, receive notifications for upcoming events, and be able to communicate with teammates and coaches. Physio will have administrative capabilities to oversee the players medical and physical status and make it up to date , and generate reports on players condition and progress. With intuitive user interfaces and seamless integration of essential functionalities, this app aims to enhance the efficiency and effectiveness of sports team management, ultimately improving the overall experience for coaches, players, and managers alike.

2.5 FUNCTIONAL SPECIFICATION

A well-structured design improves the maintainability of a system. A structured system is one that is developed from the top down and modularize, that is, broken down into manageable components. In this Meet and play app, we modularize the system so that they have minimal effect on each other. The system mainly consists of four major modules .

1.Admin

- The admin can manage the coaches, physicians and the players including addition and viewing.
- Access to manage venues and all details of others .
- View review and rating and also to chat with the moderators

2.Players

- The players can view the teams status which he/she is allowed.
- Can view the next game schedules and venues also the training details.
- The players can chat with the coache ,admin and the physician and they are also allowed to post the rating and reviews.

3.Coaches

- Coach can manage the training details and schedule games .
- All access to team and player management .
- Can chat with players and physicians

4.Physio

- The physio can only manage the players physical and medical status and update the details to it.
- Can chat with the players and physician.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

2.6 USER SPECIFICATION

The admin is responsible for maintaining the website and its content. They add and manage coaches, physicians and also manage players details . The admin can also check report, review and complaint from the moderators , and provide proper reply for that.

2.7 SYSTEM SPECIFICATION

To develop this system, it requires hardware as well as software support. The recommended specification is the following configuration.

- Language used: PYTHON
- Database: MySql
- User interface design: HTML, JS, CSS

2.7.1 HARDWARE SPECIFICATIONS

The selection of hardware is very important in the existence and proper working of any software. When selecting hardware, the size and capacity requirements are also important. Below is some of the hardware that is required by the system

Processor	64 bit
RAM	8 GB (min)
SSD	20 GB
Key Board	Standard Windows Keyboard
Mouse	Two or Three Button Mouse
Monitor	LED





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

2.7.2 SOFTWARE SPECIFICATION

We require many different software to make the application which is in making to work efficiently. It is very important to select the appropriate software so that the software works properly

Below are the software that are required to make the new system.

Operating System	Windows 11
Application Server	Xamp
Front End	HTML , Css
Scripts	JavaScript.
Server-side Script	PYTHON
Database	MySQL
Framework	Django

Windows 11

Windows 11, the latest iteration of Microsoft's operating system, brings a host of new features and enhancements aimed at delivering a more modern and productive computing experience. Released in October 2021, Windows 11 boasts a redesigned user interface characterized by centered taskbar icons, rounded corners, and an updated Start menu featuring recommended apps and recent files. Notable additions include Snap Layouts and Snap Groups, facilitating easy organization and multitasking with multiple windows. Microsoft Teams integration directly into the taskbar streamlines communication and collaboration, while gaming experiences are enhanced with features like DirectX 12 Ultimate support and Xbox app integration. Windows 11 is optimized for performance, offering faster startup times, improved energy efficiency, and better responsiveness. Virtual desktops enable users to create separate workspaces for different tasks, enhancing organization and productivity. With enhancements to touch and pen input, Windows 11 provides an improved experience on touch-enabled devices. Overall, Windows 11 represents a significant step forward in refining the Windows experience, catering to the needs of both productivity and entertainment





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

Hypertext Mark-up Language (HTML)

It is the standard mark-up language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets.

Tags such as `` and `<input />` directly introduce content into the page. Other tags such as `<p>` surround and provide information about document text and may include other tags as subelements. Browsers do not display the HTML tags but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content.

Cascading Style Sheets (CSS)

It is a style sheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, Math or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.

JavaScript

It is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well. It is a prototype-based, multi-paradigm scripting language that is dynamic, and supports object-oriented, imperative, and functional programming styles.

JavaScript runs on the client side of the web, which can be used to design / program how the web pages behave on the occurrence of an event. JavaScript is an easy to learn and powerful scripting language, widely used for controlling web page behavior.

JavaScript can function as both a procedural and an object oriented language. Objects are created programmatically in JavaScript, by attaching methods and Properties to otherwise





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

empty objects at run time, as opposed to the syntactic class definitions common in compiled languages like C++ and Java. Once an object has been constructed it can be used as a blueprint (or prototype) for creating similar objects.

Python

Python, a high-level programming language renowned for its simplicity and versatility, has become a cornerstone in various fields of software development, data analysis, machine learning, and more. Launched in the late 1980s, Python's readability and ease of use have made it an immensely popular choice among developers of all levels. Its syntax emphasizes readability and clarity, making it particularly accessible for beginners while remaining powerful enough to handle complex tasks. Python's extensive standard library provides a rich set of modules and tools for diverse programming needs, further enhancing its appeal. Its versatility is exemplified by its adoption in web development frameworks like Django and Flask, scientific computing libraries like NumPy and Pandas, and machine learning frameworks like TensorFlow and PyTorch. Python's community-driven development model has fostered a vibrant ecosystem of open-source projects, tutorials, and resources, contributing to its widespread adoption and continued evolution. As a result, Python continues to be a preferred choice for developers seeking efficiency, flexibility, and ease of use in their programming endeavors.

MYSQL

MySQL is an Oracle-backed open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web applications and online publishing.

MySQL is an important component of an open-source enterprise stack called WAMP. WAMP is a web development platform that uses Linux as the operating system, Apache as the web server, and MySQL as the relational database management system and PHP as the object-oriented scripting language. (Sometimes Perl or Python is used instead of PHP.)

Originally conceived by the Swedish company MySQL AB, MySQL was acquired by Sun Microsystems in 2008 and then by Oracle when it bought Sun in 2010. Developers can use MySQL under the GNU General Public License (GPL), but enterprises must obtain a commercial license from Oracle. Today, MySQL is the RDBMS behind many of the top websites in the world and countless corporate and consumer-facing web-based applications, including Facebook, Twitter and YouTube.

MySQL is the database management system, or a database server.

How MySQL works

MySQL is based on a client-server model. The core of MySQL is MySQL server, which handles all of the database instructions (or commands). MySQL server is available as a





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

separate program for use in a client-server networked environment and as a library that can be embedded (or linked) into separate applications.

MySQL operates along with several utility programs which support the administration of MySQL databases. Commands are sent to MySQL Server via the MySQL client, which is installed on a computer.

MySQL was originally developed to handle large databases quickly. Although MySQL is typically installed on only one machine, it is able to send the database to multiple locations, as users are able to access it via different MySQL client interfaces. These interfaces send SQL statements to the server and then display the results.

Android

Android, developed by Google, stands as a mobile operating system that debuted in 2008 and quickly surged to prominence. Built atop the Linux kernel, its primary focus is touchscreenbased devices like smartphones and tablets. Offering an open-source framework, Android fosters a vibrant ecosystem of developers who continually enhance and customize the platform. A hallmark feature is its user-friendly interface, featuring customizable home screens, widgets, and a robust notification system. The Google Play Store serves as a gateway to millions of apps, games, and digital content, enriching the user experience. Moreover, Android's multitasking capabilities empower users to seamlessly navigate between multiple applications. Integration with Google's suite of services further amplifies its utility, spanning email, navigation, cloud storage, and AI-powered assistance. Security remains paramount, with Android implementing layers of protection, including app sandboxing and regular security updates. Its compatibility with diverse hardware configurations ensures widespread adoption across a plethora of manufacturers. Users appreciate Android's extensive customization options, which extend to themes, wallpapers, and launchers, fostering a deeply personalized experience. Additionally, Android prioritizes accessibility, providing features tailored to users with disabilities. This blend of versatility, accessibility, and robust functionality has firmly established Android as the cornerstone of the mobile landscape, reshaping how we interact with technology.

3.FEASIBILITY STUDY

Feasibility is conducted to identify the best system that meets all requirements. It is both necessary and important to evaluate the feasibility of a project at the earliest possible time. feasibility study includes an identification description, an evaluation of proposed system and selection of the best system for the job. During the system is to be carried out. this is to ensure that the proposed system is not A burden to the shop. The feasibility study should be relatively cheap and quick. the results should inform the decision of whether





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

to go ahead with a more detailed analysis, some understanding of the major requirements for the system is essential. Four key considerations involved in the feasibility analysis are

- Operational feasibility
- Technical feasibility
- Economical feasibility
- Behavioral feasibility

3.1 OPERATIONAL FEASIBILITY

The purpose of the operational feasibility is to determine whether the new system will be used if it is developed and implemented and whether there will be resistance from users that will undermine the possible application benefits. The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity. The level of acceptance by the user solely depends on the methods that are employed to educate the user about the system and to make him familiar with it. His level of confidence must be raised so that he is also able to make some constructive. The proposed system is an upgrade version of the current systems new fields have been implemented according to the user need, hence it ensures all the aspects. The proposed system is very much user-friendly and the system is easily understood by simple training and it is operationally feasible to use by any users.

3.2 TECHNICAL FEASIBILITY

A study of function, performance and constraints may improve the ability to create an acceptable system, technical feasibility is frequently the most difficult area to achieve at the stage of product Engineering process. Technical feasibility is deals with the hardware as well as software requirements. The scope was whether the work for the project is done with the current equipment's and the existing system technology has to be examined in the feasibility study. The result was found to be true. This feasibility is carried out to check the technical requirements of the system. The developed system must have a modest requirement; as only minimal or null changes are required for implementing this system. This is related to the technicality of the project. This evaluation determines whether the technology needed for proposed system is available or not. It deals with hardware as well as software requirements. That is, type of hardware, software and the methods required for running the system are analyzed. So it can be used in any windows so computer. This system requires very low system resources and it will work in almost all configurations. In the existing system all functions are doing manually. So, if they get this designed software, the problems can be avoided and thus the system will run smoothly.

In the proposed system, data can be easily stored and the managed using database management system software. The reports and the results for various queries can be generated easily. Our proposed system is technically feasible to use by any users.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

3.3 ECONOMICAL FEASIBILITY

Economic feasibility is the most frequently used method for evaluating the effectiveness of the candidate system. It is very essential because the main goal of the proposed system is to have economically better results along with increased efficiency. A cost evaluation is weighed against the ultimate income or product. Economic justification is generally the bottom-line consideration that includes cost-benefit analysis, long-term corporate income strategies, and cost of resources needed for development and potential market growth. When compared to the advantage obtained from implementing the system, its cost is affordable. The proposed system was developed with available resources. Since the cost input for the software is almost nil, the output of the software is always a profit. Hence, software is economically feasible.

3.4 BEHAVIOURAL FEASIBILITY

People are inherently resistant to change, and computer is known for facilitating changes. An estimate should be made of how strongly the user; staff reacts towards the development of the computerized system. In the existing system, more manpower is required, and the time factor is more. The more manpower for managing many files for dynamic data replication and more time for search through these files is needed. But in the proposed system, both manpower and time factors are reduced, and also unnecessary burden is reduced. Thus, the remaining people are made to engage in some other important work. Also, there is no need to wait in case of downloading the data for the users; therefore, the system is behaviorally feasible.

4. SYSTEM DESIGN

4.1 INTRODUCTION

System designing is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. It is a solution to a "how to" approach compared to system analysis, which is a "what is" orientation. It translates the system requirements into ways of making them operational. The design phase focuses on the detailed implementation of the system recommended in the feasibility study.

The system which is in making is developed by working on two different modules and combining them to work as a single unit. That single unit is the one which is known as the new software. We go through the different design strategies to design the system we are talking about. In the input design, we decide which type of input screens are going to be used.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

for the system in making. In the output design we decide the output screens and the reports that will be used to give the output and in the database design we decide what all tables will be required and what all fields will be there in those tables. Each of them is discussed briefly below.

System design is the solution to the creation of a new system. This phase is composed of several systems. This phase focuses on the detailed implementation of the feasible system. It emphasizes on translating design specifications to performance specifications. System design has two phases of development: logical and physical design.

During the **Logical Design** phase the analyst describes inputs (sources), outputs (destinations), databases (data sources) and procedures (data flows) all in a format that meets the user's requirements. The analyst also specifies the user needs and at a level that virtually determines the information flow into and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. **Physical Design** is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which tell the programmers exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data through call and produce the required report on a hard copy or display it on the screen.

4.2 INPUT AND OUTPUT DESIGN

The system design includes:

- Input design
- Output design

4.1 INPUT DESIGN

Input design is the link that ties the information system into the world of its users. The input design involves determining what the input is, how the data should be performed, how to validate data, how to minimize data entry and how to provide a multi user facility, inaccurate input data are the most common cause of errors in data processing. Errors entered by data entry operator can be controlled by input design. Input design is the process of converting user originated input to a computer-based format. Input data are collected and organized into groups





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

of similar data. Once identified, appropriate input media are selected for processing All the input data re validated in the order and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, then it is transferred to the appropriate table in the database. A form is designed to enter the details should be user friendlier so that authorized user with even less knowledge can enter the data. The form is designed using v b tools like command boxes, text boxes, labels, option buttons, combo boxes etc. System analyst decodes the following input design details.

4.2 OUTPUT DESIGN

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision making. The output design of this system includes various reports. output requirements are designed during system analysis. An application is successful only when it can provide efficient and effective reports. The goal of the output design is to capture the output and get the data into a format suitable for the computer. It is very helpful to produce the clear, accurate and speedy information for end users. A major form of the output is the harder copy from the pointer and screen reports. Printouts are designed around the output requirements of the user. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. Output of this project is provided in the form of reports created using crystal report tool.

Efficient, intelligible output design should improve the system's relationship with the user and help in decision making. So, while designing output the following things are to be considered.

- Determine what information to present
- Arrange the presentation of information in an acceptable form
- Decide how to distribute the output to intended receipts

Depending on the nature and future use of output required, they can be displayed on the monitor for immediate need and for obtaining the hardcopy

4.3 DATABASE DESIGN

Database is a collection of interrelated data stores with minimum the overall objective in the development of the database technology has been to treat data as an organizational resource and has an integrated whole. Database management system allows data to be protected and organized separately from other resources. Database is an integrated collection of data. this is the difference between logical and physical data. The general objective is to make information access easy, quick, inexpensive and flexible for users. the database approach to system design places greater emphasis on





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

the integration, integrity and independence of data. this involves the separation of logical and Physical storage and vice versa. databases are normally implemented by using a package called dams.

4.4 PROCESS DESIGN

Process design represents the structure of data and program components that are required to build a computer-based system. It considered the architectural style that the system will take, the structure and properties of the components constitute the system, and the interrelationships that occur among all architectural components of a system. Although a software engineer can design both and architecture, the job is often allocated to specialist when large, complex system are to be built. A database or data warehouse designer creates data architecture for a system. The 'system architect 'select an appropriate architectural style for the requirements derived during system engineering and software requirement analysis. Architectural design begins with data design and proceeds to the derivation of one or more representations of the architectural structure of the system. An architecture model encompassing data architecture and program structure is created during architectural design. In addition, component properties and the process by which it is developed. It refers to technical specifications that will be applied in implementing the system. It includes the construction of program and program testing. The input to design phase is software requirement specification . Dad's, e-r diagrams and structured diagrams depending on analysis. The output will be design specification. System design involves designing from layouts for input and reports for output.

4.5 STRUCTURED DESIGN

Structured design deals with the data-flow in the system. It partitions a program into hierarchy of modules. The modules are organized in a top-down manner and the details will be at the bottom. The structured Design begins with a system specification that identifies inputs and outputs that described the functional of the Table.

4.6 DATAFLOW DIAGRAM

Data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects. A DFD is often used as a preliminary step to create an overview of the system without going into great detail, which can later be elaborated. A DED shows what kind of information will be input to and output from the system, how the data will advance through the system, and where the data will be stored.

DFD is a designing tool used in the top-down approach to system Design. This context level DFD is next "exploded ", to produce a Level 1 DFD that shows some of the detail of the system being modelled. The Level 1 DFD shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It also identifies





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

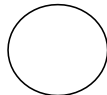
internal data stores that must be present in order for the system to do its job and shows the flow of data between the various parts of the system.

- Function- An activity or a function that is performed for some specific reason; can be manual or computerized; ultimately each process should perform only one activity.
- Data Store- collection of data that is permanently stored.
- External Entity- A person, organization or system that is external to the system but interact with it.
- Data Flow- Single piece of data or logical collection of information like a bill.

The following are some DFD symbols used in the project.



Rectangle: - It defines a source or destination of system data.



Circle: - It represents a process that transforms incoming data flow into outgoing data flow.



Arrow: - It defines data flow. It is a pipeline through which information flows.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

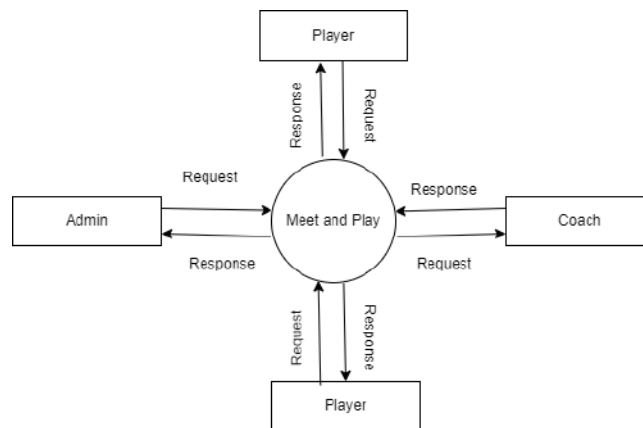
Meet and Play



Open rectangle: - It is used to store data or a temporary repository of data.

DATA FLOW DIAGRAMS (DFD)

LEVEL -0 DFD



Mrudula Menon V.
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



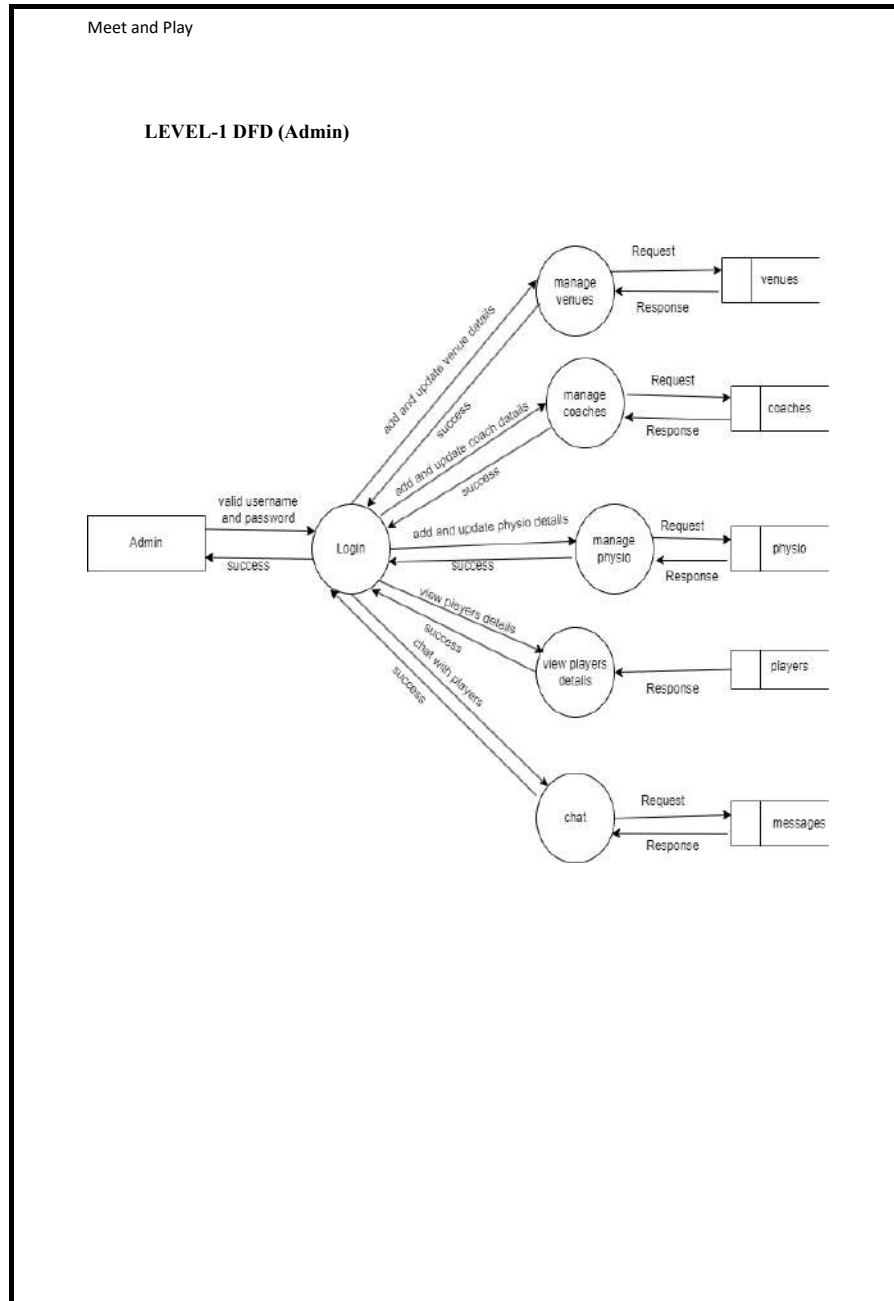
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in



Mrudula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



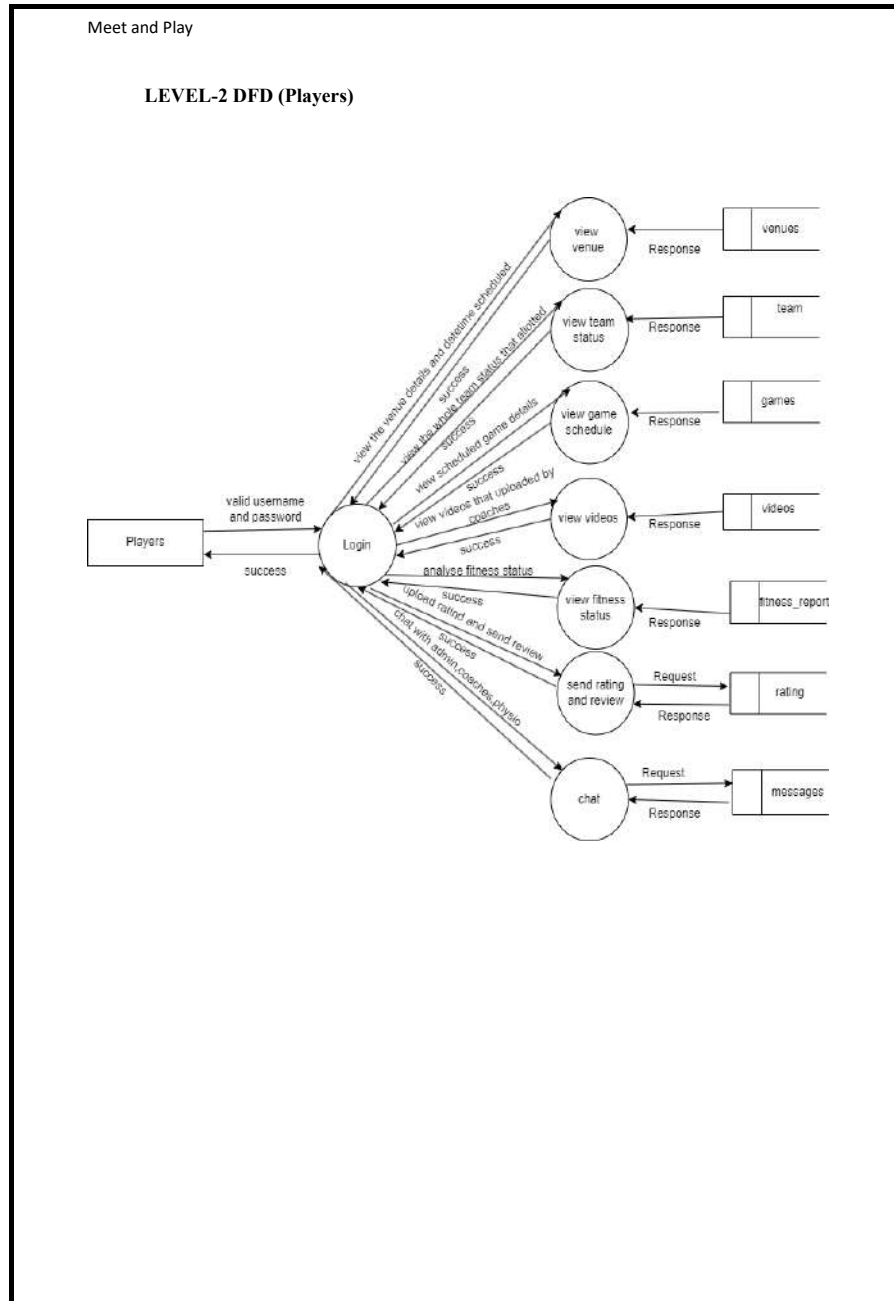
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





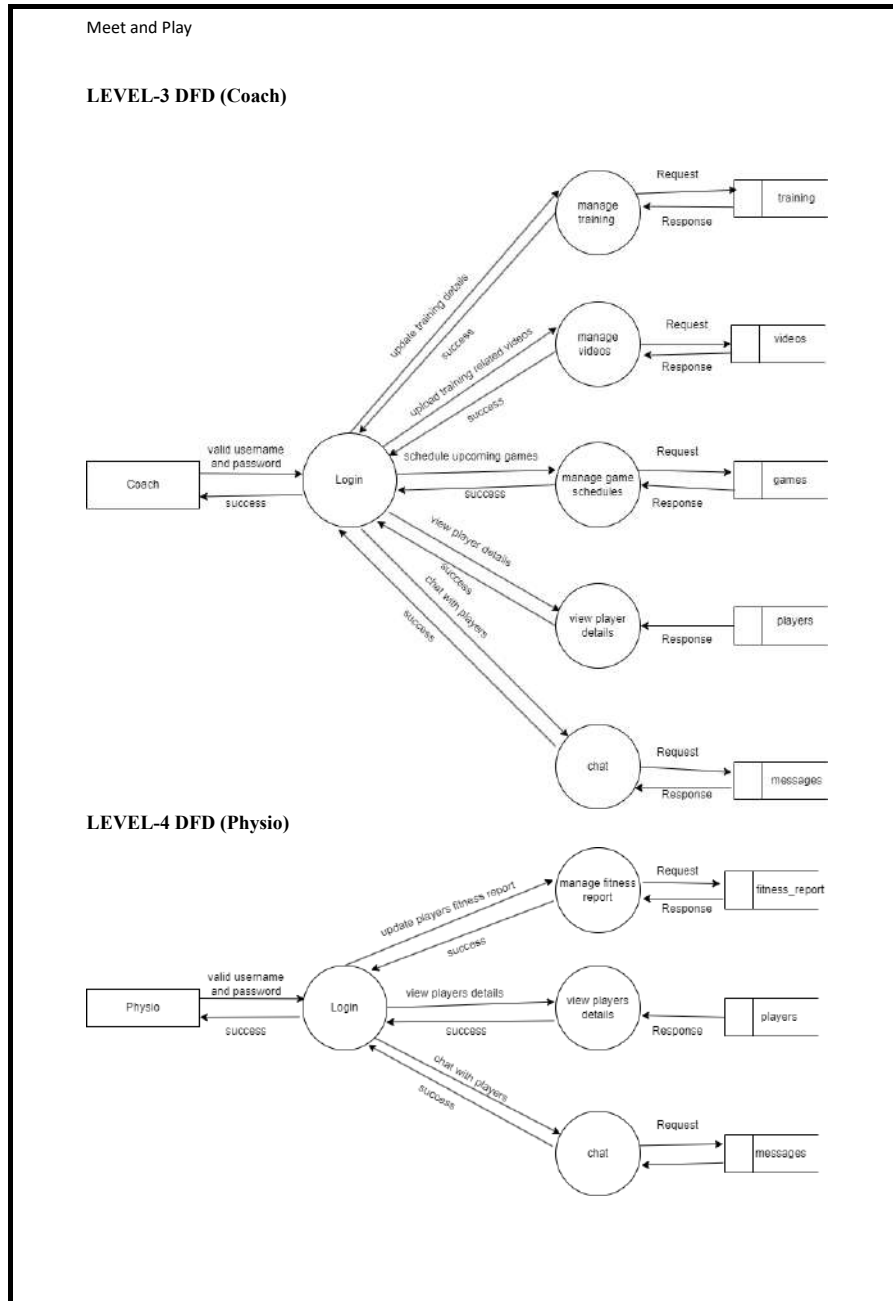
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

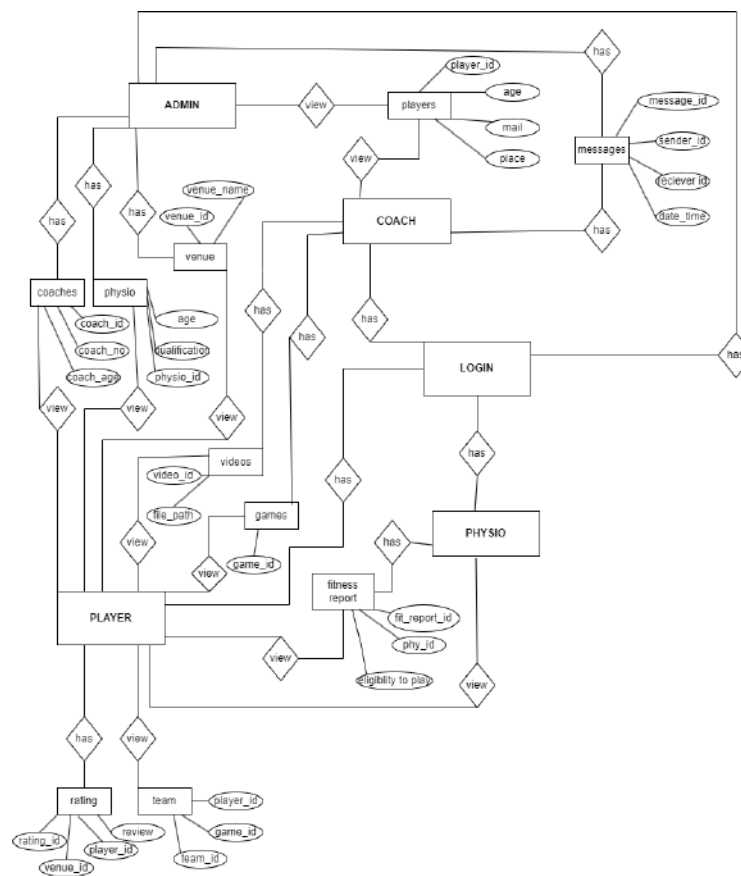
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

4.7 ENTITY RELATIONSHIP DIAGRAM [ER DIAGRAM]



Mendula Menon V.
 Mrudula Menon V.
 Principal-in-Charge
 The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

4.8 TABLE DESCRIPTION

1) LOGIN

Description: - Contains the login details

Primary key: - login_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
login_id	int	Primary Key	Login id
username	varchar	-	User name
password	varchar	-	Password
user_type	varchar	-	User type

2) COACHES

Description: - Contains the coach details

Primary key: - coach_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
Coach_id	int	Primary key	Coach id
Log_id	int	Foreign key	Login id
First_name	varchar	-	Coach firstname
Last_name	varchar	-	Coach lastname
place	varchar	-	Coach place
phone	varchar	-	Coach phone
email	Varchar	-	Coach email
age	varchar	-	Coach age
gender	varchar	-	Coach gender
qualification	varchar	-	Coach qualification





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

3) PHYSIO

Description: - Contains the physio details

Primary key: - phy_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
phy_id	int	Primary key	Physio id
Log_id	int	Foreign key	Login id
First_name	vchar	-	physio firstname
Last_name	vchar	-	Physio lastname
place	vchar	-	Physio place
phone	vchar	-	Physio phone
email	Vchar	-	Physio email
age	vchar	-	Physio age
qualification	vchar	-	Physio qualification

4) FITNESS REPORT

Description: - Contains the fitness details of players

Primary key: - fit_reprt_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
Fit_report_id	int	Primary key	Fitness report id
Player_id	int	Foreign key	Player id
Phy_id	int	Foreign key	Physio id
Description	vchar	-	Fitness description
Eligibility_to_play	vchar	-	Player eligibility to play
datetime	vchar	-	Date and time





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

5) PLAYER

Description: - Contains the details of players

Primary key: - player_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
Player_id	int	Primary key	Player id
Log_id	int	Foreign key	Login id
Latitude	varchar	_	Player latitude
Longitude	varchar	_	Player longitude
Profile_pic	varchar	_	Player profile pic
First_name	varchar	_	player firstname
Last_name	varchar	_	player lastname
Place	varchar	_	player place
Phone	varchar	_	player phone
Email	varchar	_	player email
Dob	varchar	_	Player date of birth
Age	varchar	_	player age
Gender	varchar	_	player gender
House_name	varchar	_	Player house name

6) RATING

Description: - Contains the details of player rating and review

Primary key: - rating_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
rating_id	int	Primary key	Rating id
player_id	int	Foreign key	Player id





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

venue_id	Int	Foreign key	venue id
rating	varchar	-	Player rating
review	varchar	-	Player review

7) GAMES

Description: - Contains the details about games

Primary key: - game_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
game_id	int	Primary key	Game id
venue_id	int	Foreign key	venue id
Against_team_name	varchar	-	Against playing team name
Datetime	varchar	-	Date and time
status	varchar	-	Game status

8) MESSAGE

Description: - Contains the messages and its details

Primary key: - message_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
message_id	int	Primary key	Message id
message	varchar	-	messages
sender_id	int	-	Message sender id
receiver_id	int	-	Message receiver id
datetime	varchar	-	Date and time





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

9) TEAM

Description: - Contains the details about the team

Primary key: - team_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
team_id	int	Primary key	Team id
player_id	int	Foreign key	Player id
game_id	int	Foreign key	Game id
coach_id	int	Foreign key	Coach id
description	varchar	_	Team description

10) TRAINING

Description: - Contains the training details

Primary key: - training_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
training_id	int	Primary key	Training id
coach_id	int	Foreign key	coach id
Description	varchar	_	Description about training
Datetime	varchar	_	Date and time
status	varchar	_	Training status





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

11) VENUE

Description: - Contains the details about venue

Primary key: - venue_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
venue_id	int	Primary key	Venue id
venue_name	varchar	-	Venue name
Description	varchar	-	Description
place	varchar	-	Place details

12) VIDEOS

Description: - Contains the details about the video uploaded by coaches

Primary key: - video_id

FIELD	TYPE	CONSTRAINT	DESCRIPTION
video_id	int	Primary key	Video id
coach_id	int	Foreign key	Coach id
title	varchar	-	Video title
filepath	varchar	-	Video file path





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

5. SYSTEM TESTING

5.1 INTRODUCTION

Testing is an important phase in software development. After completion, the system may work without any problem. But there should be several unknown or hidden errors in the system still remaining. The error chances may be injected into the system at any stage of the development. Even if there are techniques to detect and eliminate the errors, some errors may retain in the system. So, after the completion of coding, the system is to be executed with the only purpose of detecting maximum number of errors. The tester executes the system, and inputs different types of values those may cause error or some exceptional situation in the system. The error locations detected through the testing are to be corrected in the system then. So, the important and the only aim of testing is to detect and cure even a less possible of an error that may face in the future executions of the system. Testing is a set of activity that can be planned in advance and conducted systematically. Testing begins at the module level and work towards the integration of entire computers-based system. Nothing is completed without testing, as it is vital to the success of the system. System testing makes a logical assumption that if all parts of the system are corrected, the goal will be successfully achieved. Inadequate testing or non-testing may lead to errors that may not appear until months later.

5.2 PURPOSE OF TESTING

Testing is the success of the system. System testing makes a logical assumption that if all part of the system is correct, the goal will be successfully achieved. The following points shows how testing is essential. Existence of program defects of inadequacies is inferred. Verifies whether the software behave as intended by its designer. Checks conformance with requirements specification or user need.

Access the operational reliability of the system. Test the performance of the system. The performance of the system. Reflects the frequencies of actual user inputs. Find the fault which caused the output anomaly. Detect flaws and deficiencies in requirements. Exercise the program using data like the real data processed by the program. Test the system capabilities. Judges whether or not the program is usable in practice. Testing objectives There are several rules that can serve as testing objectives. They are; Testing is a process of executing a program with the intent of finding error. A good test case is one that has high probability of finding an undiscovered error. A successful test is one that uncovers an undiscovered error.

If testing is conducted successfully according to the objectives as stated above, it would uncover errors in the software. Also testing demonstrates that software functions appear to the working according to the specifications, that





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

performance requirement appear to have been met. These are three ways to test a program for correctness for implementation efficiency for computational complexity Test for correctness are supported to verify that a program does exactly what it was designed to do. This is much difficult that it may at first appear especially for large programs.

Tests for implementation efficiency attempt to find ways to make a correct program faster or use less storage. It is a code-refining process, which reexamines the implementation phase algorithm development. Tests for computational complexity amount to an experiment analysis of the complexity of an algorithm or an experiment comparison of two or more algorithms, which solve the same problem.

5.3 TYPES OF TESTING

System testing is the stage of implementation, which is aimed at ensuring that the system works accurately and efficiently before live operation commences. Testing is vital to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct. The goal will be successfully achieving. The candidate system is subject to a variety of tests. A series of tests are performed for the proposed system is ready for system acceptance testing. The various levels at which testing are conducted are,

- Unit testing
- Integration testing
- Sequential testing
- System testing
- Validation testing unit testing

UNIT TESTING

In unit testing each program unit is tested individually. so any errors in a unit are debugged. Sample data is given for unit testing. The unit test results are recorded for future references. Unit testing focus verification efforts on the smallest unit of software design, the module. This is known as "module testing". It comprises of the set test performed by an individual programmer prior to the integration of unit into the large system. The modules are tested separately, this testing is carried out programming stage itself.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

In this step each module is found to be working satisfactory as regard to the expected out from module. The unit testing was done for every module in the software for various inputs, such they each line of code is at least once executed. This testing was carried out during the unit to a large system.

INTEGRATION TESTING

Integration testing is a systematic technique for constructing the program structure while at the same time conducting test to uncover errors associated with interfacing.

PROGRAM TESTING

Program testing checks for two types of errors; syntax and logic. A syntax error is a program statement that violates one or more rules of the language in which it is written. A logic error deals with incorrect data fields. When a program is tested, the actual output is compared with the expected output. All the modules are combined and tested as a whole. Here correction is difficult because the vast expenses of all errors uncovered are correct for the next testing steps. We follow bottom-up integration. Bottom-up integration testing as its name implies begin construction and sling with atomic modules. Because components are integrated from the bottom up, accessing required for the components subordinate to a given level is always available and need for stubs is eliminated.

SEQUENTIAL TESTING

Sequential or series testing is checking the logic of one or more programs in the candidate system, where the output of one program will affect the processing done by another program.

SYSTEM TESTING

System testing executing a program to check logic changes made in it and with the intension of finding errors-making the program fails. Effective testing does not guaranty reliability is a design consideration. This testing actually consists of a series of different test whose primary purpose is to fully exercise the computer based system.it begins where integration testing is completed and finally software is completely assembled as package, interfacing errors are uncovered and corrected.

ACCEPTANCE TESTING

Acceptance testing is running the system with live data by the actual user. An acceptance test has the objective of selling the user in the validity and reliability of the system. A comprehensive test report is prepared. The report indicates the system's tolerance, performance range, error rate and accuracy. It verifies the system procedures operate to system specification and the integrity of important





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

data is maintained, performance of an acceptance test is actually the users show. User motivation is very important for the successful performance of the system. After that a comprehensive test report is prepared. This report shows the systems tolerance, performance range, error rate and accuracy.

INPUT TESTING

Here system is tested with all verifiable combination of input. User may type data in situations like entering password, numerical details etc. The system is tested with all the causes and it responded with appropriate error message.

OUTPUT TESTING

Here the output is tested to view where the screen is what which is desired. It is also checked whether it is to the satisfaction of the user. Changes that need to be done can be done after the result is seen.

5.4 TEST CASES

PROJECT TITLE : MEET AND PLAY

SOFTWARE TOOL : PYTHON/MySQL/JS

NO	DATA INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	PASS/FAIL
1	Player name	Player name is required	Player name is required	PASS
2	First name	First name is required	First name is required	PASS
3	email	Valid email is required	Valid email is required	PASS
4	password	Password must contain atleast 8 characters	Password must contain atleast 8 characters	PASS





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play				
5	gender	Gender is required	Gender is required	PASS
6	Admin login	Login to the system is done using username and password. Successful login redirects to the admin panel. Successful login redirects to the homepage.	Login to the system is done using username and password. Successful login redirects to the admin panel. Successful login redirects to the homepage.	PASS
	Player login	The system denies access and prints Invalid Login	The system denies access and prints Invalid Login	
	Coach login	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	
	Physio login	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	Successful login redirects to the admin panel. Successful login redirects to the homepage. The system denies access and prints Invalid Login	PASS





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

6. SYSTEM IMPLEMENTATION

6.1 INTRODUCTION

A crucial phase in the system life cycle is the successful implementation of the new system design. Implementation involves creating computer compatible files, training the operating staff, installing hardware, terminals. In the system implementation, user training is crucial for minimizing resistance to change and giving the new system a chance to prove its worth. The objectives of the system implementation are to put the system into operation while holding costs, risks and personal irritation to minimum. Once the physical system has been designed in details, the next stage is to run the design into a working system and then to monitor the operation of the system to ensure that it continues to work efficiently and the operation of the system to ensure that it continues to work efficiently and effectively. The implementation stage of a is often very complex and time consuming because many more people are involved than in the earlier stages. The system implementation took place through various stages as follows,

- Implantation planning.
- Education and training.
- System testing.
- System implementation.
- Change over.

The implementation plan includes a description of all the activities that must occur to implement the new system and to put it into operation. To achieve the objectives and benefits from computer-based system, it is essential for the people who will be confident of their role in the new jobs. After software is developed to meet user's requirements, users test it for acceptance. The changes over phase are used to provide adaptability for the new system.





THE COCHIN COLLEGE

KOCHI - 682 002

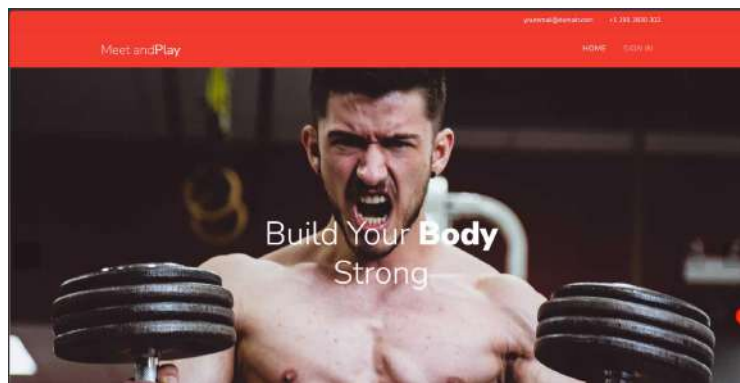
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

6.2 SCREENSHOTS



LOGIN

Username	<input type="text" value="admin"/>
Password	<input type="password" value="*****"/>
<input type="button" value="Login"/>	



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

Manage Venue

Venue Name	<input type="text" value="camp nou"/>
Description	<input type="text" value="sdvsba"/>
Place	<input type="text" value="barcelona"/>
<input type="button" value="submit"/>	

Manage Venue

Venue Name	Description	Place		
Providence Plaza	Related with games.	Kochi	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
sample	sample	sample	<input type="button" value="Update"/>	<input type="button" value="Delete"/>

Manage Coaches

First Name	<input type="text" value="naveen"/>
Last Name	<input type="text" value="babu"/>
Place	<input type="text" value="chellanam"/>
Contact	<input type="text" value="9988776655"/>
Email	<input type="text" value="babu@gmail.com"/>
Age	<input type="text" value="45"/>
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Description	<input type="text" value="d"/>





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

Meet and play
HOME MANAGES SID

Player Details

Profile Picture	Name	Place	Phone	Email	DOB	Gender	House Name	
	Anu Elsa	Alappu	983423232	as@redas	20/08/1998	female	modvkl	Chat
	Sanku III	ghshs	6238526459	sankusanku00@gmail.com	86666	female	hnhh	Chat
	bhbh hnhh	dhfjh	6238526459	sankusanku00@gmail.com	19-1-2023	male	hnhh	Chat
	hnh jn	kottayam	6238526458	mikumiku00@gmail.com	20-1-2023	female	kkk	Chat
	Dona Prasad	ekm	9998887776	dona@gmail.com	11-7-2003	female	padathparambu	Chat

Manage Training

Description

Manage Training

Coach Name	Description	Datetime	Status		
Blesson Baby	running	2017-03-20 17:34:17	active	Update	Delete
naveen babu	ground session	2011-04-24 16:40:36	active	Update	Delete





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in


Meet and Play

Manage Video

Title

File Path No file chosen

Manage Video

Coach Name	Title	Video		
Blesson Baby	techno		<input type="button" value="Update"/>	<input type="button" value="Delete"/>

Game Schedule

Select Venue:

Add Opposite Team:

Venue Name	Against Team Name	Datetime	Status	
Providence Plaza	Barca FC	2023-01-18 09:00:00	pending	Add Team
Providence Plaza	Barca FC	2023-01-18 09:23:30	pending	Add Team
sample	Barca FC	2023-01-18 09:23:35	pending	Add Team
sample	Kerala Warriors	2024-04-12 16:41:54	pending	Add Team





THE COCHIN COLLEGE

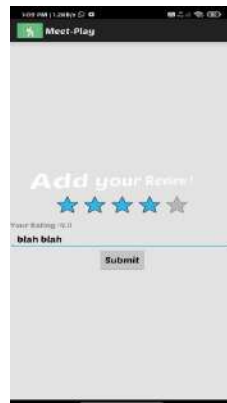
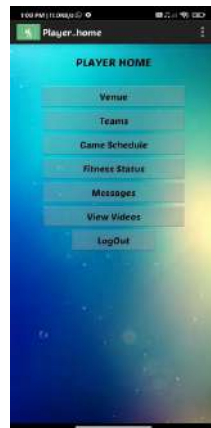
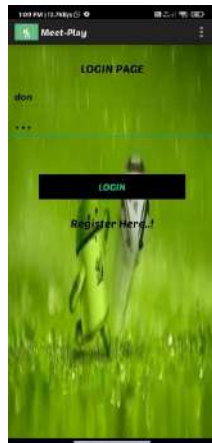
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play



Mendula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

6.3 SOURCE CODE

1,Adminhome.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Meet and Play</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Nunito+Sans:200,300,400,700,900|Roboto+Mono:300,400,500">
<link rel="stylesheet" href="fonts/icomoon/style.css">

<link rel="stylesheet" href="/static/css/bootstrap.min.css">
<link rel="stylesheet" href="/static/css/magnific-popup.css">
<link rel="stylesheet" href="/static/css/jquery-ui.css">
<link rel="stylesheet" href="/static/css/owl.carousel.min.css">
<link rel="stylesheet" href="/static/css/owl.theme.default.min.css">
<link rel="stylesheet" href="/static/css/bootstrap-datepicker.css">
<link rel="stylesheet" href="/static/css/animate.css">

<link rel="stylesheet" href="/static/fonts/flaticon/font/flaticon.css">

<link rel="stylesheet" href="/static/css/aos.css">

<link rel="stylesheet" href="/static/css/style.css">
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

</head>
<body>

<div class="site-wrap">

<div class="site-mobile-menu">
<div class="site-mobile-menu-header">
<div class="site-mobile-menu-close mt-3">
<span class="icon-close2 js-menu-toggle"></span>
</div>
</div>
<div class="site-mobile-menu-body"></div>
</div> <!-- .site-mobile-menu -->

<div class="site-navbar-wrap bg-white">
<div class="site-navbar-top">
<div class="container py-2">
<div class="row align-items-center">
<div class="col-6">
<a href="#" class="p-2 pl-0"><span class="icon-twitter"></span></a>
<a href="#" class="p-2 pl-0"><span class="icon-facebook"></span></a>
<a href="#" class="p-2 pl-0"><span class="icon-linkedin"></span></a>
<a href="#" class="p-2 pl-0"><span class="icon-instagram"></span></a>
</div>
<div class="col-6">
<div class="d-flex ml-auto">
<a href="#" class="d-flex align-items-center ml-auto mr-4">
<span class="icon-envelope mr-2"></span>
<span class="d-none d-md-inline-block">youremail@domain.com</span>
</a>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

```

<a href="tel://12912830302" class="d-flex align-items-center">
  <span class="icon-phone mr-2"></span>
  <span class="d-none d-md-inline-block">+1 291 2830 302</span>
</a>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="site-navbar-wrap bg-white">

<div class="container">
<div class="site-navbar bg-light">
<div class="py-1">
<div class="row align-items-center">
<div class="col-2">
<h2 class="mb-0 site-logo"><a href="/">Meet and <strong>play</strong> </a></h2>
</div>
<div class="col-10">
<nav class="site-navigation text-right" role="navigation">
<div class="container">
<div class="d-inline-block d-lg-none ml-md-0 mr-auto py-3"><a href="#" class="site-
menu-toggle js-menu-toggle text-black"><span class="icon-menu h3"></span></a></div>

<ul class="site-menu js-clone-nav d-none d-lg-block">
<li class="active">
<a href="/admin/adminhome">Home</a>
</li>
<!-- <a href="/admin/adminhome">Home</a>
<a href="/admin/manage_venue">Venues</a>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

<a href="/admin/manage_coaches">Coaches</a>
<a href="/admin/manage_physio">Physio</a>
<a href="/admin/view_players">Players</a>
<a href="/">Signout</a> -->
  <li class="has-children">
    <a href="">Manages</a>
    <ul class="dropdown arrow-top">
      <li><a href="/admin/manage_venue">Venues</a></li>
      <li><a href="/admin/manage_coaches">Coaches</a></li>
      <li><a href="/admin/manage_physio">Physio</a></li>
    <li class="has-children">
      <a href="">View</a>
      <ul class="dropdown">
        <li><a href="/admin/view_players">Players</a></li>
        <!-- <li><a href="/admin/view_message">Message</a></li> -->
      </ul>
    </li>
  </ul>
</li>

  </ul>
</li>
<li><a href="/">Sign Out</a></li>
</ul>
</div>
</nav>
</div>
</div>
</div>
</div>
</div>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

2.Adminmanagecoach.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Meet and Play</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Nunito+Sans:200,300,400,700,900|Roboto+Mono:300,400,500">
<link rel="stylesheet" href="fonts/icomoon/style.css">

<link rel="stylesheet" href="/static/css/bootstrap.min.css">
<link rel="stylesheet" href="/static/css/magnific-popup.css">
<link rel="stylesheet" href="/static/css/jquery-ui.css">
<link rel="stylesheet" href="/static/css/owl.carousel.min.css">
<link rel="stylesheet" href="/static/css/owl.theme.default.min.css">
<link rel="stylesheet" href="/static/css/bootstrap-datepicker.css">
<link rel="stylesheet" href="/static/css/animate.css">

<link rel="stylesheet" href="/static/fonts/flaticon/font/flaticon.css">

<link rel="stylesheet" href="/static/css/aos.css">
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

<link rel="stylesheet" href="/static/css/style.css">

</head>
<body>

<div class="site-wrap">

<div class="site-mobile-menu">
<div class="site-mobile-menu-header">
<div class="site-mobile-menu-close mt-3">
<span class="icon-close2 js-menu-toggle"></span>
</div>
</div>
<div class="site-mobile-menu-body"></div>
</div> <!-- .site-mobile-menu -->

<div class="site-navbar-wrap bg-white">
<div class="site-navbar-top">
<div class="container py-2">
<div class="row align-items-center">
<div class="col-6">
<a href="#" class="p-2 pl-0"><span class="icon-twitter"></span></a>
<a href="#" class="p-2 pl-0"><span class="icon-facebook"></span></a>
<a href="#" class="p-2 pl-0"><span class="icon-linkedin"></span></a>
<a href="#" class="p-2 pl-0"><span class="icon-instagram"></span></a>
</div>
<div class="col-6">
<div class="d-flex ml-auto">
<a href="#" class="d-flex align-items-center ml-auto mr-4">
<span class="icon-envelope mr-2"></span>
<span class="d-none d-md-inline-block">youremail@domain.com</span>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

```

</a>
<a href="tel://12912830302" class="d-flex align-items-center">
  <span class="icon-phone mr-2"></span>
  <span class="d-none d-md-inline-block">+1 291 2830 302</span>
</a>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="site-navbar-wrap bg-white">

<div class="container">
  <div class="site-navbar bg-light">
    <div class="py-1">
      <div class="row align-items-center">
        <div class="col-2">
          <h2 class="mb-0 site-logo"><a href="/">Meet and<strong>Play</strong> </a></h2>
        </div>
        <div class="col-10">
          <nav class="site-navigation text-right" role="navigation">
            <div class="container">
              <div class="d-inline-block d-lg-none ml-md-0 mr-auto py-3"><a href="#" class="site-menu-toggle js-menu-toggle text-black"><span class="icon-menu h3"></span></a></div>

              <ul class="site-menu js-clone-nav d-none d-lg-block">
                <li class="active">
                  <a href="/coach/coachhome">Home</a>
                </li>
              <!-- <a href="/coach/coachhome">Home</a>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

<a href="/coach/manage_training">Training</a>
<a href="/coach/manage_video">Videos</a>
<a href="/coach/send_message">Message</a>
<a href="/coach/view_players">Player</a>
<a href="/">Signout</a> -->
  <li class="has-children">
    <a href="">Manages</a>
    <ul class="dropdown arrow-top">
      <li><a href="/coach/manage_training">Training</a></li>
      <li><a href="/coach/manage_video">Video</a></li>
      <!-- <li><a href="/coach/send_message">Message</a></li> -->
    <li class="has-children">
      <a href="">View</a>
      <ul class="dropdown">
        <li><a href="/coach/view_players">Players</a></li>
        <li><a href="/coach/view_gameschedule">Game Schedule</a></li>
      </ul>
    </li>
  </ul>
</li>
<li><a href="/">Sign Out</a></li>
</ul>
</div>
</nav>
</div>
</div>
</div>
</div>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```
{% with messages = get_flashed_messages() %}
{% if messages %}

{% for message in messages %}
<script>alert('{{ message }}')</script>
{% endfor %}

{% endif %}
{% endwith %}
```

3.Adminmanagephysio.html

```
{% include 'adminheader.html'%}
<body>
<br><br>
<h1 align="center"><font color="red"><u>Manage Physio</u></font></h1>
<form method="post">
<table border=1 align="center" class="table" style="width:700px;background-color:#f1f1c1">
    {% if data['updateprt']%}
    <tr>
        <th><font color="red">Place</font></th>
        <td><input type="text" name="place" class="form-control"
required="" style="width:90%;height: 40px" value="{{data['updateprt']|[0]['place'}}"></td>
    </tr>
    <tr>
        <th><font color="red">Phone</font></th>
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

```

                <td><input type="text" name="phone" class="form-control"
required="" style="width:90%;height: 40px" pattern="[0-9]{10}"
value="{{data['updateprt']}[0]['phone'}}"></td>
            </tr>
            <tr>
                <th><font color="red">Email</font></th>
                <td><input type="email" name="email" class="form-control"
required="" style="width:90%;height: 40px" value="{{data['updateprt']}[0]['email'}}"></td>
            </tr>
            <tr>
                <th><font color="red">Age</font></th>
                <td><input type="text" name="age" class="form-control"
required="" style="width:90%;height: 40px" value="{{data['updateprt']}[0]['age'}}"></td>
            </tr>
            <tr>
                <th><font color="red">Qualification</font></th>
                <td><input type="text" name="qual" class="form-control"
required="" style="width:90%;height: 40px" value="{{data['updateprt']}[0]['qualification'}}"></td>
            </tr>
            <tr>
                <th><font color="red">Username</font></th>
                <td><input type="text" name="username" class="form-control"
required="" style="width:90%;height: 40px" value="{{data['updateprt']}[0]['username'}}"></td>
            </tr>
            <tr>
                <th><font color="red">Password</font></th>
                <td><input type="text" name="password" class="form-control" required=""
style="width:90%;height: 40px" value="{{data['updateprt']}[0]['password'}}"></td>
            </tr>
            <tr>
                <td colspan="2" align="center"><font color="red"><input
type="submit" name="update" value="submit" class="form-control" style="width:100%;height:
40px"></font></td>
            </tr>
    
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

</table>
{% else %}
<table border=1 align="center" class="table" style="width:700px;background-
color:#f1f1c1">
<tr>
<th><font color="red">First Name</font></th>
<td><input type="text" name="fname" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<th><font color="red">Last Name</font></th>
<td><input type="text" name="lname" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<th><font color="red">Place</font></th>
<td><input type="text" name="place" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<th><font color="red">Phone</font></th>
<td><input type="number" name="phone" class="form-control"
required="" style="width:90%;height: 40px" pattern="[0-9]{10}"></td>
</tr>
<tr>
<th><font color="red">Email</font></th>
<td><input type="email" name="email" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<th><font color="red">Age</font></th>
<td><input type="number" name="age" class="form-control"
required="" style="width:90%;height: 40px"></td>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

```

</tr>
<tr>
<th><font color="red">Qualification</font></th>
<td><input type="text" name="qual" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<th><font color="red">Username</font></th>
<td><input type="text" name="username" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<th><font color="red">Password</font></th>
<td><input type="password" name="password" class="form-control"
required="" style="width:90%;height: 40px"></td>
</tr>
<tr>
<td colspan="2" align="center"><font color="red"><input
type="submit" name="submit" value="submit" class="form-control" style="width:100%;height:
40px"></font></td>
</tr>
</table>

```

{% endif %}

```
<table border=1 align="center" class="table" style="width:700px;background-color:#f1f1c1">
```

```
<h1 align="center"><font color="red"><u>Physio
Detils</u></font></h1>
```

```
<tr>
```

```
<th><font color="red">Name</font></th>
```

```
<th><font color="red">Place</font></th>
```

```
<th><font color="red">Phone</font></th>
```

```
<th><font color="red">Email</font></th>
```

```
<th><font color="red">Age</font></th>
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

                <th><font color="red">Qualification</font></th>

            </tr>
        </tbody>
    </table>
</form>
{% include 'footer.html'%}

```

4.coachmanagetraining.html

```

{% include 'coachheader.html'%}
<body>
    <br><br>
    <h1 align="center"><font color="red"><u>Manage Training</u></font></h1>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

```

<form method="post">
  {% if data['updateprt']%}
    <table border=1 align="center" class="table" style="width:700px;background-
color:#f1f1c1">
      <tr>
        <th><font color="red">Description</font></th>
        <td><textarea name="des" class="form-control" required=""
style="width:90%;height: 40px">{{data['updateprt']}[0]['description']}</textarea></td>
      </tr>
      <tr>
        <td colspan="2" align="center"><font color="red"><input
type="submit" name="update" value="submit" class="form-control" style="width:100%;height:
40px"></font></td>
      </tr>
    </table>
  {% else %}
    <table border=1 align="center" class="table" style="width:700px;background-
color:#f1f1c1">
      <tr>
        <th><font color="red">Description</font></th>
        <td><textarea name="des" class="form-control" required=""
style="width:90%;height: 40px"></textarea></td>
      </tr>
      <tr>
        <td colspan="2" align="center"><font color="red"><input
type="submit" name="submit" value="submit" class="form-control" style="width:100%;height:
40px"></font></td>
      </tr>
    </table>
  {% endif %}
  <table border=1 align="center" class="table" style="width:700px;background-
color:#f1f1c1">
    <tr>
      <td align="center"><font color="red"><u>Manage
Training</u></font></td>
    </tr>
  </table>

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

Meet and Play

```

<tr>
  <th><font color="red">Coach Name</font></th>
  <th><font color="red">Description</font></th>
  <th><font color="red">Datetime</font></th>
  <th><font color="red">Status</font></th>
</tr>
<tbody>
  {% for row in data['train']%}
  <td>{{row['NAME']}}</td>
  <td>{{row['description']}}</td>
  <td>{{row['datetime']}}</td>
  <td>{{row['status']}}</td>
  <td><a href="?action=update&id={{row['training_id']}}" class="btn
btn-primary">Update</a></td>
  <td><a href="?action=delete&id={{row['training_id']}}" class="btn
btn-primary">Delete</a></td>
  </tbody>
  {% endfor %}
</table>
</form>
{% include 'footer.html'%}

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Meet and Play

7. CONCLUSION AND FUTURE SCOPE

7.1 CONCLUSION

In conclusion, **Meet and play** android app represents a pivotal advancement in the realm of sports organization and coordination. Through meticulous development and thoughtful design, we have created a versatile tool that addresses the multifaceted needs of coaches, players, and managers alike. The app's comprehensive set of features, including roster management, scheduling, communication tools, and performance tracking, serve to streamline operations and enhance the efficiency of team management processes. Its intuitive interface and seamless integration with mobile technology make it an invaluable asset for sports teams at all levels, from grassroots clubs to professional organizations. Moving forward, continued iteration and refinement will be key to staying abreast of emerging technologies and evolving user needs. With its potential for further expansion into areas such as advanced analytics, augmented reality, and global localization, the sports team management Android app is poised to remain at the forefront of innovation, empowering teams to achieve greater success both on and off the field.

7.2 FUTURE SCOPE

Looking ahead, the future scope of **Meet and play** Android app is rich with possibilities for further enhancement and innovation. As technology continues to evolve, there are several avenues for expansion and improvement that can elevate the app's functionality and utility. One key area of future development lies in the integration of advanced analytics and data-driven insights. By incorporating algorithms and machine learning techniques, the app could offer predictive analytics for performance forecasting, injury prevention, and strategic decision-making. Additionally, the app could explore augmented reality (AR) and virtual reality (VR) features to provide immersive training experiences and tactical simulations for players and coaches. Another promising direction is the incorporation of biometric sensors and wearable devices to track player metrics in real-time, enabling personalized training regimens and performance optimization. Furthermore, enhancing the app's social features, such as live streaming of matches, interactive fan engagement tools, and community forums, could foster a deeper sense of connection and camaraderie among team members and supporters. Finally, as sports continue to globalize, localization and customization features will be essential for catering to the specific needs and preferences of diverse user demographics and sporting cultures. By embracing these future opportunities for innovation, the sports team management Android app can continue to evolve as a leading solution for empowering teams to achieve their full potential.

7.3 BIBLIOGRAPHY

- [1] <http://www.w3schools.com>
- [2] <http://www.tutorialspoint.com>
- [3] <http://www.stackoverflow.com>





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report on
MINDEYE -AN AI IMAGE GENERATION WEB APP

Submitted by,
Nandhana Jeeraj (210021090212)

In partial fulfilment for the award of degree
Of
Bachelor of Computer Applications
Of
Mahatma Gandhi University

Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM- 682002
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DECLARATION

I hereby declare that the report of the project work submitted to the Department of Computer Applications, The Cochin College, Koovapadam, in partial fulfilment of the award of the Degree of Computer Applications is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university.

I understand the detection of any such copying is liable to be punished in any way the college deems fit.

Nandhana Jeeraj (210021090212)

Date:

Place:

The Cochin college

2

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE

KOOVAPADAM 682002



CERTIFICATE

*This is to certify that the project report titled **MIND EYE** submitted by **NANDHANA JEERAJ (210021090212)**, in partial fulfilment of the award of the Degree Of Computer Applications and is record of bonafide work carried out by me in the academic year 2021-2024.*

HRIDYA K S

PROJECT GUIDE

KEERTHANA SHYAM

HEAD OF THE DEPARTMENT

Submitted for the Viva-voce held on at

INTERNAL EXAMINER

EXTERNAL EXAMINER

The Cochin college

3

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

ACKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to God for keeping me fit for the successful completion of the project.

I convey my sincere thanks to Ms.KEERTHANA S. HOD, Department of Computer Application, The Cochin College, who provided me the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

I express my deep sense gratitude to my project guide, Ms. HRIDYA K S, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout my project, without which the project could not have been accomplished successfully.

I also wish to extend my heartfelt gratitude to my parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

TABLE OF CONTENTS

No	Contents	Pg no
1	INTRODUCTION	7
1.1	Core Functionality	7
2	SYNOPSIS	6
2	SYSTEM ANALYSIS	8
2.1	Existing System	8
2.2	Proposed System	9
2.3	Feasibility	9
3	SYSTEM SPECIFICATION	11
3.1	Hardware Specification	14
3.2	System Configuration	14
4	SYSTEM DESIGN	15
5	DATA FLOW DIAGRAM	18
6	ER DIAGRAM	20
7	TABLE STRUCTURE	21
8	MODULE DESCRIPTION	22
9	SYSTEM TESTING	23
10	SYSTEM IMPLEMENTATION	27
11	SAMPLE SCREEN INPUTS	28
12	SOURCE CODE	30
13	CONCLUSION	34
13.1	Bibliography	34





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYNOPSIS

Mindeye : Unleash Your Vision with AI Image Generation

Mindeye is a web application built with Python Django that empowers users to generate unique and creative images using the power of Artificial Intelligence. This user-friendly platform allows you to transform your textual descriptions into stunning visuals, all within a web browser.

Key Features:

Intuitive Interface: Simply provide a textual description of your desired image, specifying details like objects, scene, artistic style, and mood. Mindeye's AI engine takes care of the rest.

AI-Powered Creativity: Leverage the power of deep learning to generate images that transcend traditional methods. Explore a world of possibilities where your imagination takes center stage.

Effortless Workflow: Save time and resources by generating image variations in seconds. Mindeye streamlines the creative process, allowing you to focus on refining your vision.

This user-friendly platform eliminates the need for complex design software. Mindeye streamlines the creative process, allowing you to generate and explore diverse image variations in seconds. Whether you're a designer, artist, or simply looking for a creative outlet, Mindeye empowers you to overcome creative roadblocks and explore new artistic possibilities. Built with the robust Django framework, Mindeye ensures a seamless user experience and paves the way for future innovation in AI-powered image creation.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

INTRODUCTION

Imagine a world where your wildest visual ideas can be brought to life with just a few words. Mindeye, a revolutionary web application built with Python Django, makes this a reality. Say goodbye to complex design software and hello to an intuitive interface that empowers you to harness the power of AI image generation. Simply describe the image you envision, detailing objects, scene, artistic style, and mood. Mindeye's advanced AI engine then interprets your prompt and generates unique visuals that embody your vision.

Mindeye streamlines the creative process, allowing you to explore a vast landscape of possibilities in seconds. Generate countless image variations, iterate on your ideas, and overcome creative roadblocks with ease. Whether you're a seasoned artist seeking new avenues of expression or someone with a spark of an idea, Mindeye empowers anyone to unlock their creative potential. Built with the robust Django framework, Mindeye ensures a user-friendly experience and paves the way for the future of AI-powered image creation.

Core Functionality:

Text-to-Image Generation: This is the core functionality where users provide a text description and the AI generates a corresponding image. You can define the level of detail users can provide in their prompts (e.g., object types, number of objects, color palettes, artistic styles).

Image Editing (Optional): Allow users to refine the generated images with basic editing tools like cropping, resizing, or applying simple filters





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

SYSTEM ANALYSIS

System analysis is the reduction of the entire system by studying various operations and their relationships with the system and the requirements of its successor. A system can be defined as an orderly grouping of interdependent components linked together according to plan to achieve a specific objective.

The idea of the system has become most practical and necessary in conceptualizing the interrelationships and integrations of operations especially when using computers. Organizing consists of several interrelated and interacting components. Analysis is the detailed study of various operations performed by the system and their relations within and outside the system. During analysis, data are connected on the available files, decision points and is handled by the present system.

EXISTING SYSTEM

In college settings, the manual counselling system often struggles with high demand and limited resources, resulting in lengthy wait times for students seeking mental health support. Additionally, stigma around seeking counselling services on campus can deter some students from accessing the help they need, exacerbating mental health issues within the college community.

PROPOSED SYSTEM

The proposed soul care system for college is designed to meet the unique needs of students by offering a convenient and confidential platform for accessing mental health support. Through this system, college students will have the opportunity to connect with experienced counsellors.

FEASIBILITY

Feasibility is conducted to identify the best system that meets all requirements. It is both necessary and important to evaluate the feasibility of a project at the earliest possible time. Feasibility study includes an identification description, an evaluation of proposed system and selection of the best system for the job. During the system is to be carried out, this is to ensure that the proposed system is not a burden to the shop. The feasibility study should be relatively cheap and quick. The results should inform the decision of whether to go ahead with a more detailed analysis, some understanding of the major requirements for the system is essential. Four key considerations involved in the feasibility analysis are

The Cochin college

8

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

- Operational feasibility
- Technical feasibility
- Economical feasibility
- Behavioral feasibility

OPERATIONAL FEASIBILITY

The purpose of the operational feasibility is to determine whether the new system will be used if it is developed and implemented and whether there will be resistance from users that will undermine the possible application benefits .the aspect of study is to check the level of acceptance of the system by the user .this includes the process of training the user to use the system efficiently .the user must not feel threatened by the system, instead must accept it as a necessity .the level of acceptance by the user solely depends on the methods that are employed to educate the user about the system and to make him familiar with it .his level of confidence must be raised so that he is also able to make some constructive . The proposed system is an upgrade version of the current systems new fields have been implemented according to the user need, hence it ensures all the aspects.

The proposed system is very much user-friendly and the system is easily understood by simple training and it is operationally feasible to use by any users.

TECHNICAL FEASIBILITY

A study of function, performance and constraints may improve the ability to create an acceptable system, technical feasibility is frequently the most difficult area to achieve at the stage of product Engineering process. technical feasibility is deals with the hardware as well as software requirements. the scope was whether the work for the project is done with the current equipment's and the existing system technology has to be examined in the feasibility study. The result was found to be true. This feasibility is carried out to check the technical requirements of the system. The developed system must have a modest requirement, as only minimal or null changes are required for implementing this system. this is related to the technicality of the project. This evaluation determines whether the technology needed for proposed system is available or not .it deals with hardware as well as software requirements. that is, type of hardware, software and the methods required for running the system are analyzed .so it can be used

The Cochin college

9

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

in any windows so computer. This system requires very low system resources and it will work in almost all configurations. In the existing system all functions are doing manually. So, if they get this designed software, the problems can be avoided and thus the system will run smoothly.

In the proposed system, data can be easily stored and the managed using database management system software. the reports and the results for various queries can be generated easily. our proposed system is technically feasible to use by any users.

ECONOMICAL FEASIBILITY

Economic feasibility is the most frequently used method for evaluating the effectiveness of the candidate system .It is very essential because the main goal of the proposed system is to have economically better result along with increased efficiency. A cost evaluation is weighed against the ultimate income or product. Economic justification is generally the bottom-line consideration that includes cost benefit analysis, long term corporate income strategies, and cost of resources needed for development and potential market growth. When compared to the advantage obtained from implementing the system its cost is affordable. Proposed system was developed with available resources. Since cost input for the software is almost nil the output of the software is always a profit. Hence software is economically feasible.

BEHAVIOURAL FEASIBILITY

People are inherently resistant to change and computer is known for facilitating the changes .an estimate should be made of how strongly the user; staff reacts towards the development of the computerized system. In the existing system more manpower is required and time factor is more. The more manpower for managing many files for dynamic data replication and more time for search through these files is needed. but in the proposed system, both manpower and time factors are reduced and also unnecessary burden is reduced. thus, the remaining people are made to engage in some other important work. also, there is no need to wait in case of downloading the data for the users therefore, the system is behaviorally feasible.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM SPECIFICATION

Python Django

In the context of your Mindeye project, Python plays a critical role in bringing your web application to life. Here's a breakdown of how Python underpins Mindeye's functionalities:

Building the Backend with Django:

- Django is a high-level Python web framework that simplifies the development process. It handles common web development tasks like user authentication, database management, and URL routing. This allows you to focus on the core functionalities of Mindeye without getting bogged down in low-level web development details.

Integrating the AI Model:

- Python excels in data science and machine learning tasks. Libraries like TensorFlow or PyTorch provide powerful tools for working with AI models. These libraries will enable Mindeye to interact with the chosen pre-trained AI model's API. In simpler terms, Python acts as a bridge between your web application and the AI model, allowing you to send the user's text prompt to the model and receive the generated image data back.

Optional: Building the Frontend (with a twist):

- While the user interface (frontend) is typically built with HTML, CSS, and JavaScript, Django offers Django Templates. These are Python templates that dynamically generate the HTML code for your webpages. This means you can use Python code to tailor the user interface based on user input and the retrieved image data from the AI model. For example, Django templates can dynamically display the user's prompt alongside the generated image.

Overall, Python's versatility and Django's functionalities create a powerful foundation for Mindeye. The specific Python libraries and tools you'll use will depend on the chosen AI model and the features you want to implement.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Hypertext Mark-up Language (HTML)

It is the standard mark-up language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets.

Tags such as `` and `<input />` directly introduce content into the page. Other tags such as `<p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content.

Cascading Style Sheets (CSS)

It is a style sheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, Math or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SQLite3

SQLite 3 isn't directly relevant to the core functionality of Mindeye, which relies on Python's Django framework and AI image generation. However, there might be a few scenarios where SQLite 3 could be used in conjunction with Mindeye.

Lightweight Database Engine: SQLite 3 is a self-contained, serverless database management system. Unlike traditional database servers, it doesn't require separate software installation or a dedicated server process. The entire database is stored in a single file, making it very portable and easy to integrate into applications.

Simple Setup and Use: SQLite 3 is known for its ease of use. It has a relatively simple query language based on SQL (Structured Query Language) that allows you to store, retrieve, and manipulate data.

Limitations: While convenient for small-scale projects or prototyping, SQLite 3 has limitations. It's not ideal for very large datasets or high-performance applications that require complex queries or frequent data access by multiple users.

Windows 11

Windows 11 represents Microsoft's latest evolution in operating systems, offering a refined and modernized user experience. Its redesigned interface showcases a centered Start Menu and a revamped taskbar for a cleaner, more organized look. The new Snap Layouts and Snap Groups enhance multitasking, while the revamped Microsoft Store supports a curated selection of apps, including Android apps via the Amazon Appstore. Gamers benefit from features like Direct Storage for faster loading times and Auto HDR for improved visuals, alongside Xbox integration.

Improved productivity tools include virtual desktops, widgets for personalized information, and seamless Microsoft Teams integration. Security enhancements encompass Windows Hello improvements, robust security measures, and expanded hardware requirements for TPM 2.0 support. Accessibility, touch, pen, and voice input have also been refined, while performance optimizations ensure a smoother and more efficient user experience overall. Windows 11's Fluent Design System further unifies the visual experience, providing a cohesive and visually appealing interface across applications.

The Cochin college

13

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

HARDWARE SPECIFICATION

Selection of hardware configuration is very important task related to the software development. The processor should be powerful to handle all the operations. The hard disk should have the sufficient capacity to solve the database and the application.

SYSTEM CONFIGURATION

H/W SYSTEM CONFIGURATION

Processor	I5
RAM	8 GB (min)
SSD	20 GB
Key Board	Standard Windows Keyboard
Mouse	Two or Three Button Mouse
Monitor	LED

S/W SYSTEM CONFIGURATION

Operating System	Windows 10
Front End	HTML
Server-side Script	Python Django
Database	SQLite3





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM DESIGN

The term design describes the final system and the way in which it is developed. The system design is a solution, how to approach to the new system. This important phase is composed of several steps. An emphasis is on translating the performance requirements of our proposed system into design specification. Design goes through logical and physical stage of development. In the design phase the physical design producing the working system by defining a particular specification that helps to knowing exactly what the new system must do. The logical design determines the information flow into and of the system and require database. Design is a multistep process that focuses on data structure, software, architecture, procedural details, and interface between modules. The design process translates the requirements into the representation of the software. Computer software design changes continually because new methods, better analysis and broader understanding evolved. It provides the understanding and procedure details necessary for implementing the proposed system .an emphasis is on translating the performance requirement of our proposed system into design specification. Design goes through logical and physical stage. The system design is the last phase that indicate the final system and process of design phase. In the designed phase of maintenance management system, the database tables, input screens and output reports are designed. In table designing, redundancy is avoided. Design is the only way that we can accurately translate a system requirement into a software product. In our production management system, the all-input screens are designed as user friendly and understandable.

INPUT DESIGN

Input design is the link that ties the information system into the world of its users. The input design involves determining what the input is, how the data should be performed, how to validate data, how to minimize data entry and how to provide a multi user facility, inaccurate input data are the most common cause of errors in data processing. Errors entered by data entry operator can be controlled by input design. Input design is the process of converting user originated input to a computer-based format. Input data are collected and organized into groups of similar data. Once identified, appropriate input media are selected for processing

The Cochin college

15

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

All the input data re validated in the order and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, then it is transferred to the appropriate table in the database. A form is designed to enter the details should be user friendlier so that authorized user with even less knowledge can enter the data. The form is designed using v b tools like command boxes, text boxes, labels, option buttons, combo boxes etc. System analyst decodes the following input design details,

OUTPUT DESIGN

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision making. The output design of this system includes various reports. output requirements are designed during system analysis. An application is successful only when it can provide efficient and effective reports.

The goal of the output design is to capture the output and get the data into a format suitable for the computer. It is very helpful to produce the clear, accurate and speedy information for end users.

A major form of the output is the harder copy from the pointer and screen reports. Printouts are designed around the output requirements of the user. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. Output of this project is provided in the form of reports created using crystal report tool.

DATABASE DESIGN

Database is a collection of interrelated data stores with minimum the overall objective in the development of the database technology has been to treat data as an organizational resource and has an integrated whole. Database management system allows data to be protected and organized separately from other resources. Database is an integrated collection of data. this is the difference between logical and physical data. The general objective is to make information access easy, quick, inexpensive and flexible for users. the database approach to system design places greater emphasis on the integration,

The Cochin college

16

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

integrity and independence of data. this involves the separation of logical and

Physical storage and vice versa. databases are normally implemented by using a package called dams.

PROCESS DESIGN

Process design represents the structure of data and program components that are required to build a computer-based system. It considered the architectural style that the system will take, the structure and properties of the components constitute the system, and the interrelationships that occur among all architectural components of a system. Although a software engineer can design both and architecture, the job is often allocated to specialist when large, complex system are to be built. A database or data warehouse designer creates data architecture for a system. The 'system architect' select an appropriate architectural style for the requirements derived during system engineering and software requirement analysis. Architectural design begins with data design and proceeds to the derivation of one or more representations of the architectural structure of the system. An architecture model encompassing data architecture and program structure is created during architectural design. In addition, component properties and the process by which it is developed. It refers to technical specifications that will be applied in implementing the system. It includes the construction of program and program testing. The input to design phase is software requirement specification

Dad's, e-r diagrams and structured diagrams depending on analysis. The output will be design specification. System design involves designing from layouts for input and reports for output.

STRUCTURED DESIGN

Structured design deals with the data-flow in the system. It partitions a program into hierarchy of modules. The modules are organized in a top-down manner and the details will be at the bottom. The structured Design begins with a system specification that identifies inputs and outputs that described the functional of the Table.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

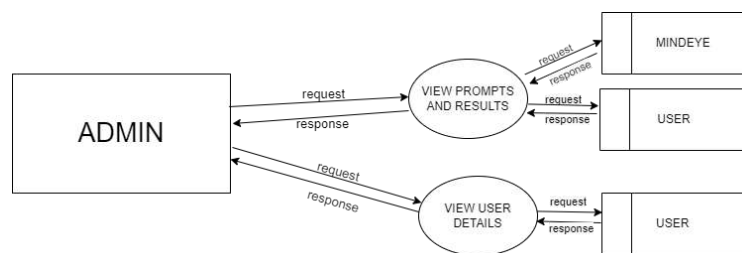
email: email@thecochincollege.edu.in

DATA FLOW DIAGRAM (DFD)

LEVEL 0



LEVEL 1 (ADMIN)





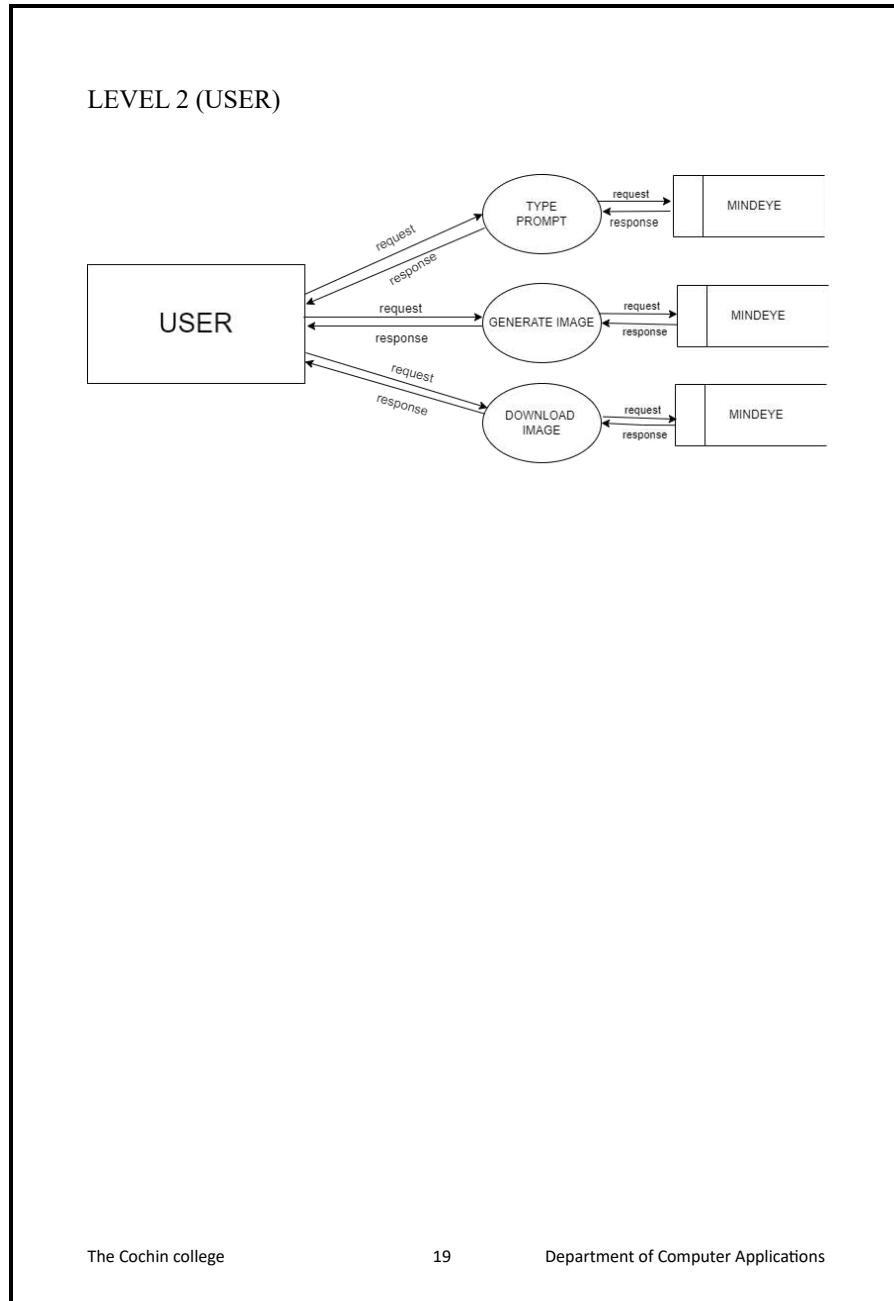
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in





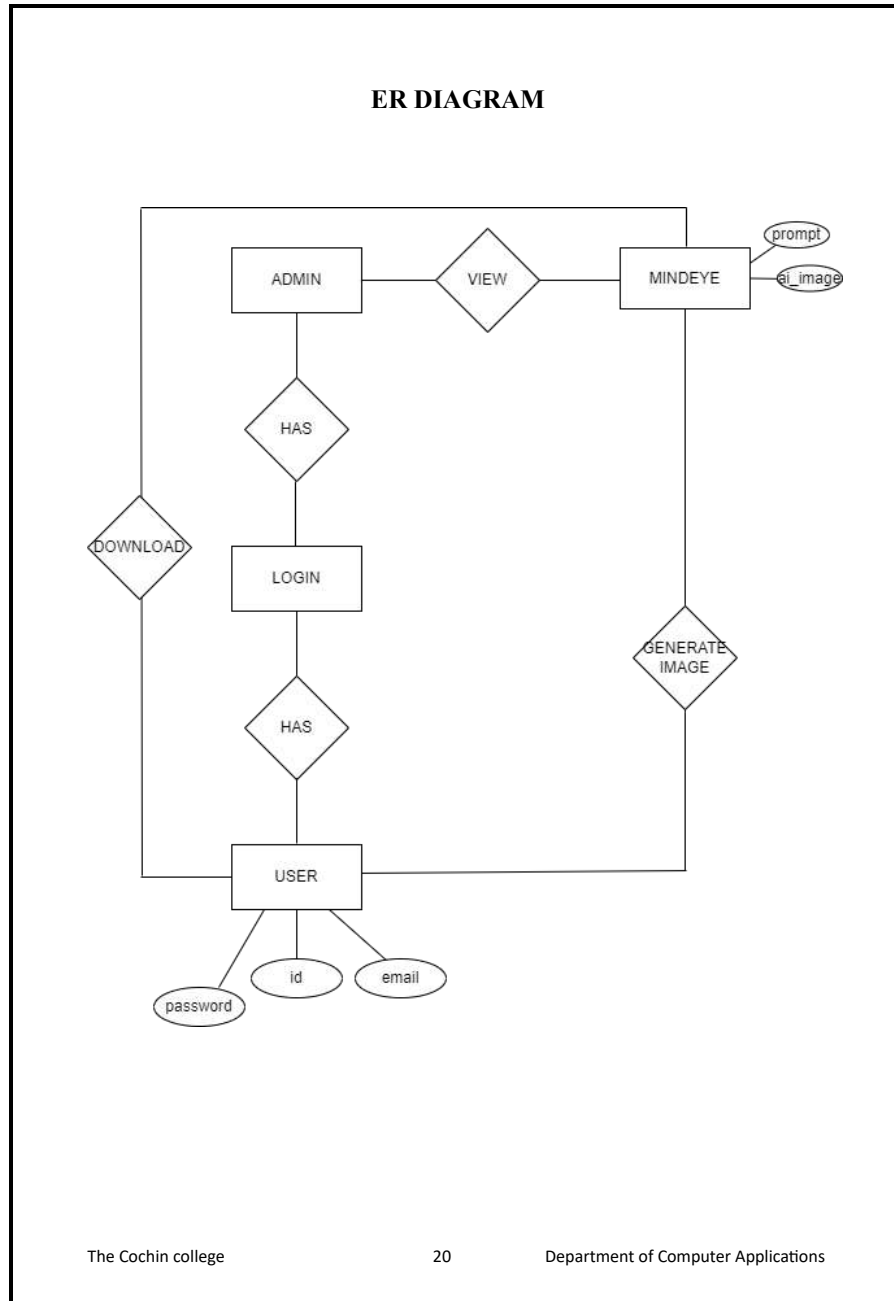
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

TABLE STRUCTURE

DATABASE- MINDEYE

Table structure for Mindeye

Field	Type	Constraint	Default
id	IntegerField(11)	Primary key	
prompt	CharField(300)		
ai_image	ImageField()		

Table structure for User

Field	Type	Constraint	Default
uid	IntegerField(11)	Primary key	
name	CharField(100)		
email	EmailField()		
password	CharField(100)		
usertype	CharField(100)		





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

MODULE DESCRIPTION

A module is a collection of source files and build settings that allow you to divide your project into discrete units of functionality. It enhances design clarity, which in turn eases implementation, debugging, testing, documenting, and maintenance of the software product.

There are 2 modules in this project:

1. Admin
2. Users

1. Admin:

- Login: Admin can login with email and password.
- View User Details: Admin can view the user details.
- View results: View user prompts and results.

2. User:

- Registration: Users need to register using their detail.
- Login: User can login after registration.
- Generation of image : Type prompts and generate an ai image.
- Download: Users can Download generated images





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM TESTING

Testing is an important phase in software development. After completion, the system may work without any problem. But there should be several unknown or hidden errors in the system still remaining. The error chances may be injected into the system at any stage of the development. Even if there are techniques to detect and eliminate the errors, some errors may retain in the system. So, after the completion of coding, the system is to be executed with the only purpose of detecting maximum number of errors. The tester executes the system, and inputs different types of values those may cause error or some exceptional situation in the system. The error locations detected through the testing are to be corrected in the system then. So, the important and the only aim of testing is to detect and cure even a less possible of an error that may face in the future executions of the system. Testing is a set of activity that can be planned in advance and conducted systematically. Testing begins at the module level and work towards the integration of entire computers-based system. Nothing is completed without testing, as it is vital to the success of the system. System testing makes a logical assumption that if all parts of the system are corrected, the goal will be successfully achieved. Inadequate testing or non-testing may lead to errors that may not appear until months later.

PURPOSE OF TESTING

Testing is the success of the system. System testing makes a logical assumption that if all part of the system is correct, the goal will be successfully achieved. The following points shows how testing is essential. Existence of program defects of inadequacies is inferred. Verifies whether the software behave as intended by its designer. Checks conformance with requirements specification or user need.

Access the operational reliability of the system. Test the performance of the system. The performance of the system. Reflects the frequencies of actual user inputs. Find the fault which caused the output anomal. Detect flaws and deficiencies in requirements. Exercise the program using data like the real data processed by the program. Test the system capabilities. Judges whether or not the program is usable in practice. Testing objectives There are several rules that can serve as testing objectives. They are; Testing is a process of executing a program with the intent of finding error. A good test case is





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

one that has high probability of finding an undiscovered error. A successful test is one that uncovers an undiscovered error.

If testing is conducted successfully according to the objectives as stated above, it would uncover errors in the software. Also testing demonstrates that software functions appear to be working according to the specifications, that performance requirements appear to have been met. These are three ways to test a program for correctness for implementation efficiency for computational complexity. Test for correctness is supported to verify that a program does exactly what it was designed to do. This is much difficult that it may at first appear especially for large programs.

Tests for implementation efficiency attempt to find ways to make a correct program faster or use less storage. It is a code-refining process, which reexamines the implementation phase algorithm development. Tests for computational complexity amount to an experiment analysis of the complexity of an algorithm or an experiment comparison of two or more algorithms, which solve the same problem.

TYPES OF TESTING

System testing is the stage of implementation, which is aimed at ensuring that the system works accurately and efficiently before live operation commences. Testing is vital to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct. The goal will be successfully achieving. The candidate system is subject to a variety of tests. A series of tests are performed for the proposed system is ready for system acceptance testing. The various levels at which testing are conducted are,

- Unit testing
- Integration testing
- Sequential testing
- System testing
- Validation testing unit testing





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

UNIT TESTING

In unit testing each program unit is tested individually. so any errors in a unit are debugged. Sample data is given for unit testing. The unit test results are recorded for future references. Unit testing focus verification efforts on the smallest unit of software design, the module. This is known as "module testing". It comprises of the set test performed by an individual programmer prior to the integration of unit into the large system. The modules are tested separately, this testing is carried out programming stage itself.

In this step each module is found to be working satisfactory as regard to the expected out from module. The unit testing was done for every module in the software for various inputs, such they each line of code is at least once executed.

INTEGRATION TESTING

Integration testing is a systematic technique for constructing the program structure while at the same time conducting test to uncover errors associated with interfacing.

PROGRAM TESTING

Program testing checks for two types of errors; syntax and logic. A syntax error is a program statement that violates one or more rules of the language in which it is written. A logic error deals with incorrect data fields. When a program is tested, the actual output is compared with the expected output. All the modules are combined and tested as a whole. Here correction is difficult because the vast expenses of all errors uncovered are correct for the next testing steps. We follow bottom-up integration. Bottom-up integration testing as its name implies begin construction and sling with atomic modules. Because components are integrated from the bottom up, accessing required for the components subordinate to a given level is always available and need for stubs is eliminated.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SEQUENTIAL TESTING

Sequential or series testing is checking the logic of one or more programs in the candidate system, where the output of one program will affect the processing done by another program.

SYSTEM TESTING

System testing executing a program to check logic changes made in it and with the intension of finding errors-making the program fails. Effective testing does not guaranty reliability is a design consideration. This testing actually consists of a series of different test whose primary purpose is to fully exercise the computer based system.it begins where integration testing is completed and finally software is completely assembled as package, interfacing errors are uncovered and corrected.

ACCEPTANCE TESTING

Acceptance testing is running the system with live data by the actual user. An acceptance test has the objective of selling the user in the validity and reliability of the system. A comprehensive test report is prepared. The report indicates the system's tolerance, performance range, error rate and accuracy. It verifies the system procedures operate to system specification and the integrity of important data is maintained, performance of an acceptance test is actually the users show. User motivation is very important for the successful performance of the system. After that a comprehensive test report is prepared. This report shows the systems tolerance, performance range, error rate and accuracy.

INPUT TESTING

Here system is tested with all verifiable combination of input. User may type data in situations like entering password, numerical details etc. The system is tested with all the causes and it responded with appropriate error message.

OUTPUT TESTING

Here the output is tested to view where the screen is what which is desired. It is also checked whether it is to the satisfaction of the user. Changes that need to be done can be done after the result is seen.

The Cochin college

26

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SYSTEM IMPLEMENTATION

A crucial phase in the system life cycle is the successful implementation of the new system design. Implementation involves creating computer compatible files, training the operating staff, installing hardware, terminals. In the system implementation, user training is crucial for minimizing resistance to change and giving the new system a chance to prove its worth. The objectives of the system implementation are to put the system into operation while holding costs, risks and personal irritation to minimum. Once the physical system has been designed in details, the next stage is to run the design into a working system and then to monitor the operation of the system to ensure that it continues to work efficiently and the operation of the system to ensure that it continues to work efficiently and effectively. The implementation stage of a system is often very complex and time consuming because many more people are involved than in the earlier stages. The system implementation took place through various stages as follows,

- Implantation planning.
- Education and training.
- System testing.
- System implementation.
- Change over.

The implementation plan includes a description of all the activities that must occur to implement the new system and to put it into operation. To achieve the objectives and benefits from computer-based system, it is essential for the people who will be confident of their role in the new jobs. After software is developed to meet user's requirements, users test it for acceptance. The changes over phase are used to provide adaptability for the new system.





THE COCHIN COLLEGE

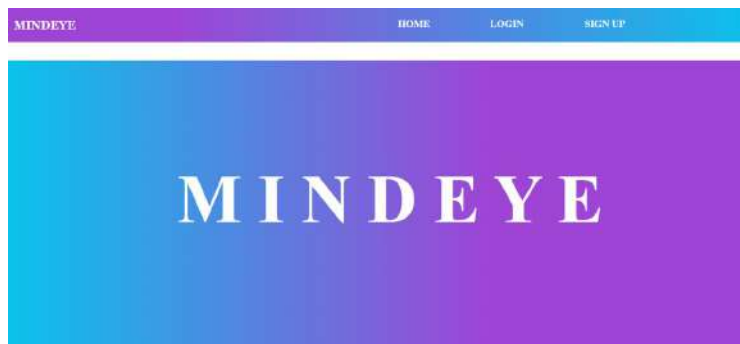
KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

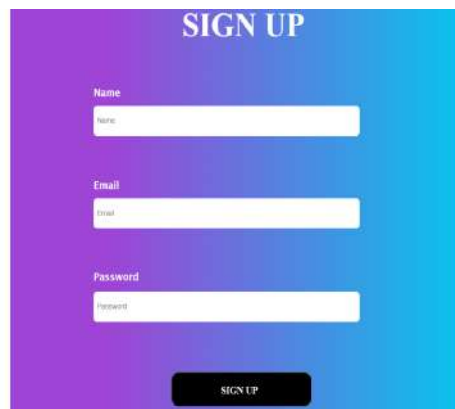
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SAMPLE SCREEN INPUTS



Home page



Registration page





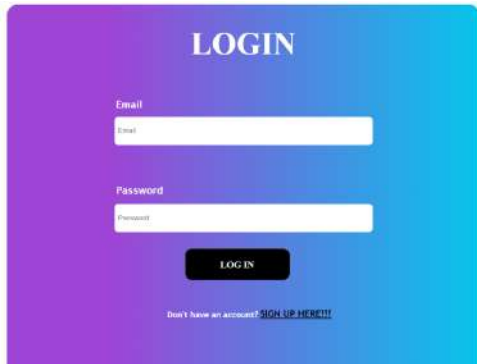
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in



LOGIN

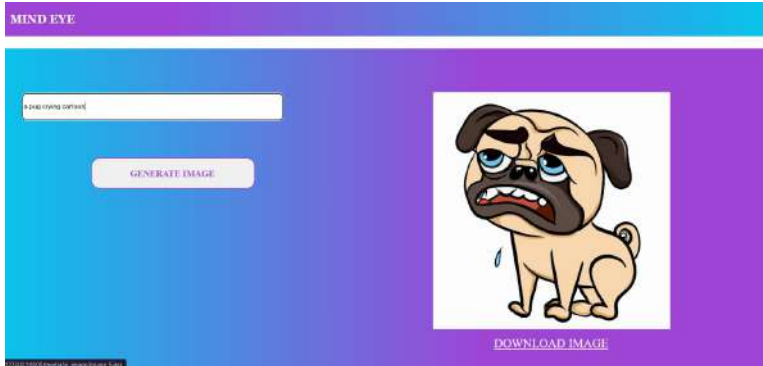
Email

Password

LOGIN


Don't have an account? [SIGN UP HERE!!!](#)

Login page



MIND EYE

GENERATE IMAGE



DOWNLOAD IMAGE

Image generated

The Cochin college 29 Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

SOURCE CODE

```

views.py

from pyexpat.errors import messages
from django.shortcuts import render,redirect
from django.http import HttpResponseRedirect
import openai, os, requests
from dotenv import load_dotenv
from django.core.files.base import ContentFile
from .models import Mindeye
from .models import FormDataForm

load_dotenv()
api_key = os.getenv("OPENAI_KEY", None)
openai.api_key= api_key

def generate_image(request):
    obj=None
    if api_key is not None and request.method=="POST":
        user_input = request.POST.get('user_input')
        client = openai.Client(api_key=api_key)
        response = client.images.generate(
            model="dall-e-2",
            prompt=user_input,
            size="1024x1024",
            quality="standard",
            n=1,
        )

```

The Cochin college

30

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

```

img_url = response.data[0].url

response = requests.get(img_url)
img_file=ContentFile(response.content)

count= Mindeye.objects.count() + 1
fname=f"image-{count}.jpg"

obj= Mindeye(prompt=user_input)
obj.ai_image.save(fname , img_file)
obj.save()

return render (request ,"homepage.html" , {"object":obj})

return render (request ,"homepage.html" , {})

def signUpPage(request):
    return render(request,'signup.html')

def saveform(request):
    if request.method=='POST':
        name=request.POST.get('name')
        email=request.POST.get('email')
        password=request.POST.get('password')
        print(name, email, password)
        data=FormDatum(name=name,email=email,password=password)
        data.save()
        return render(request,'login.html', {})
    else:
        return render(request,"signup.html")

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

```
def loginPage(request):
    return render(request,'login.html')

def login(request):
    if request.method=='POST':
        useremail=request.POST.get('email')
        userpassword=request.POST.get('password')
        loginuser=FormDataForm.objects.filter(email=useremail)
        useremail1 = loginuser[0].email
        userpassword1 = loginuser[0].password

        print(useremail,useremail1,userpassword, userpassword1)
        if useremail==useremail1 and userpassword==userpassword1:

            print("success")
            return render(request,"homepage.html")
        else:

            return render(request,"login.html")

    return HttpResponseRedirect("login")
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

models.py

```
from django.db import models

# Create your models here.
class Mindeye(models.Model):
    prompt=models.CharField(max_length=300)
    ai_image=models.ImageField(upload_to='ai_image')

class FormDataForm(models.Model):
    name = models.CharField(max_length=100)
    email = models.EmailField()
    password=models.CharField(max_length=100)
```

urls.py

```
from django.urls import path
from . import views

urlpatterns =[

    path("",views.generate_image,name="generate_app"),
    path('signup/',views.signUpPage,name="signUpPage"),
    path('saveform/',views.saveform,name="saveform"),
    path('login/',views.loginPage,name="loginPage"),
    path('loginform/',views.login,name="login"),
]
```

The Cochin college

33

Department of Computer Applications





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

CONCLUSION

In conclusion, Mindeye leverages the power of Python's Django framework to create a user-friendly web application for AI image generation. Django streamlines backend development, while Python libraries provide tools to interact with the chosen AI model's API. This allows Mindeye to translate user descriptions into unique images. While SQLite 3 might be a consideration for specific functionalities in a future version, like basic user management or temporary image storage during prototyping, it's not essential for core operations. As your project evolves, you can explore more robust database solutions to handle potential growth in users and generated images. With its focus on Python and Django, Mindeye lays a strong foundation for a powerful and innovative AI-powered image creation tool.

BIBLIOGRAPHY

1. <https://www.w3schools.com/>
2. <https://stackoverflow.com/>





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THEFT INTURUSIOCAMERA

1

A Report On

“THEFT INTRUSION CAMERA”

Submitted by,

ATHIRA M S

(210021090181)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University Kottayam -686560



THE COCHIN COLLEGE KOOVAPPADAM-682002,
ERNAKULAM 2021-2024

THE COCHIN COLLEGE

DEPARTMENT OF COMPUTER APPLICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

FAKE LOGO PREDICTION

THE COCHIN C.

1/48

A Report on
"FAKE LOGO PREDICTION"

Submitted by,
MEENAKSHI MR
(210021090203)

In partial fulfilment for the award of the degree
OF
Bachelor of Computer Application
OF
Mahatma Gandhi University
Kottayam-686560



THE COCHIN COLLEGE
KOOVAPADAM-682002,ERNAKULAM
2021-2024





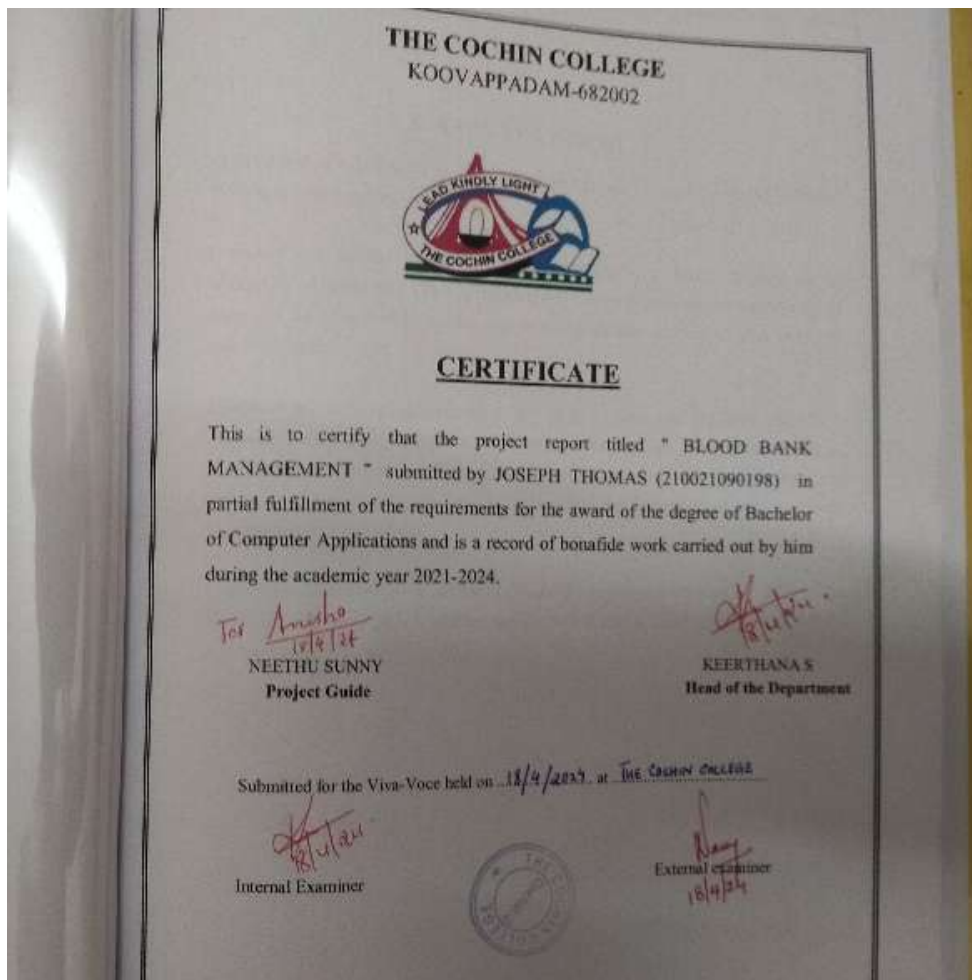
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

A Report On

"Skin sure"

Submitted by,

AISWARYA PRATHAPAN
(200021090166)

In partial fulfillment for the award of the degree

Bachelor of Computer Application

Mahatma Gandhi University

Kottayam 686560



THE COCHIN COLLEGE

KOOVAPPADAM-682002, ERNAKULAM
2021-2024





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

THE COCHIN COLLEGE
KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "SKIN SURE" submitted by AISWARYA PRATHAPAN (200021090166) in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by her during the academic year 2021-2024.

SHINDA VARGHEESE

Project Guide

Submitted for the Viva-Voce held on 17/04/2024 at The Cochin College

KEERTHANA S

Head of the Department

Internal Examiner



External Examiner





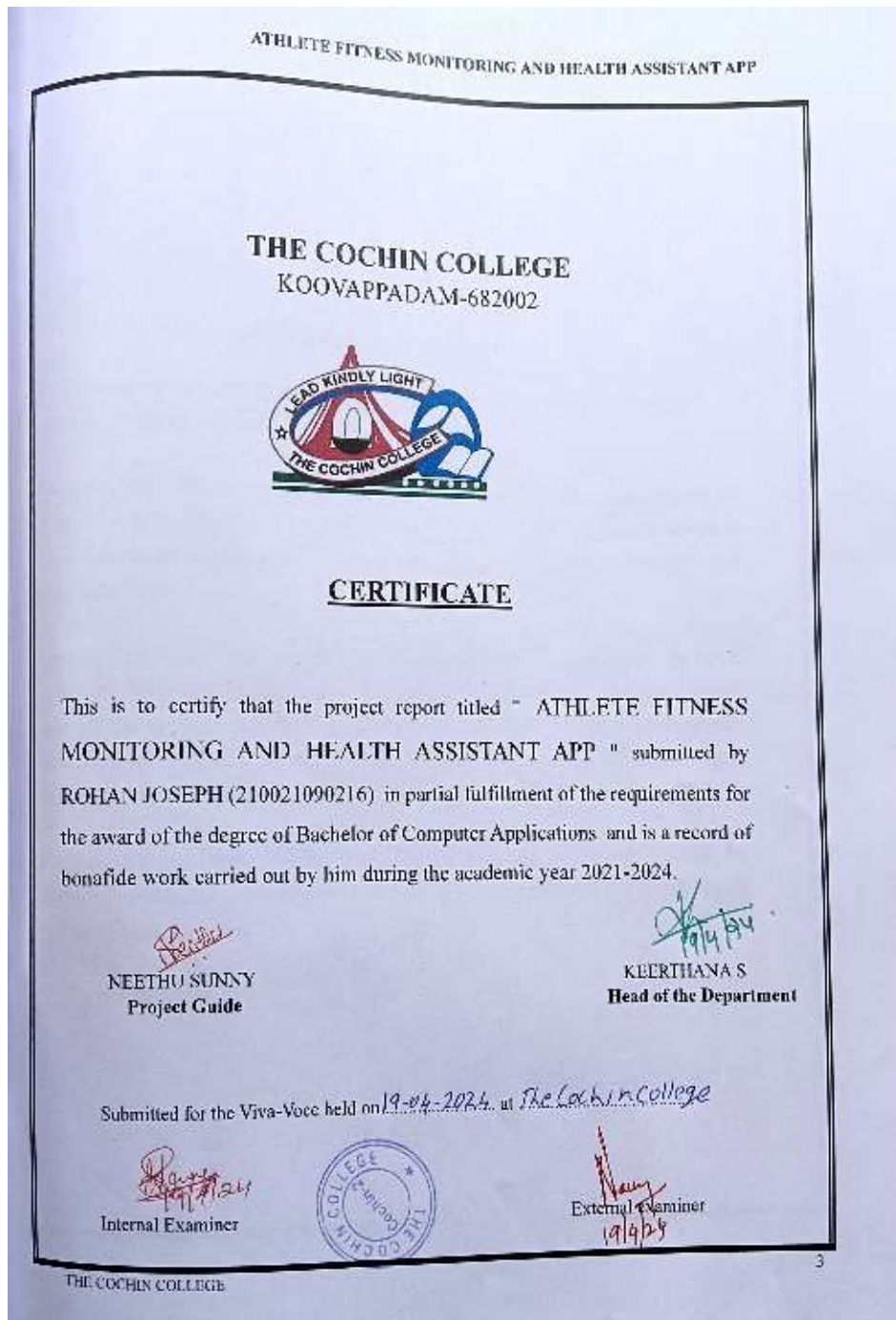
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in





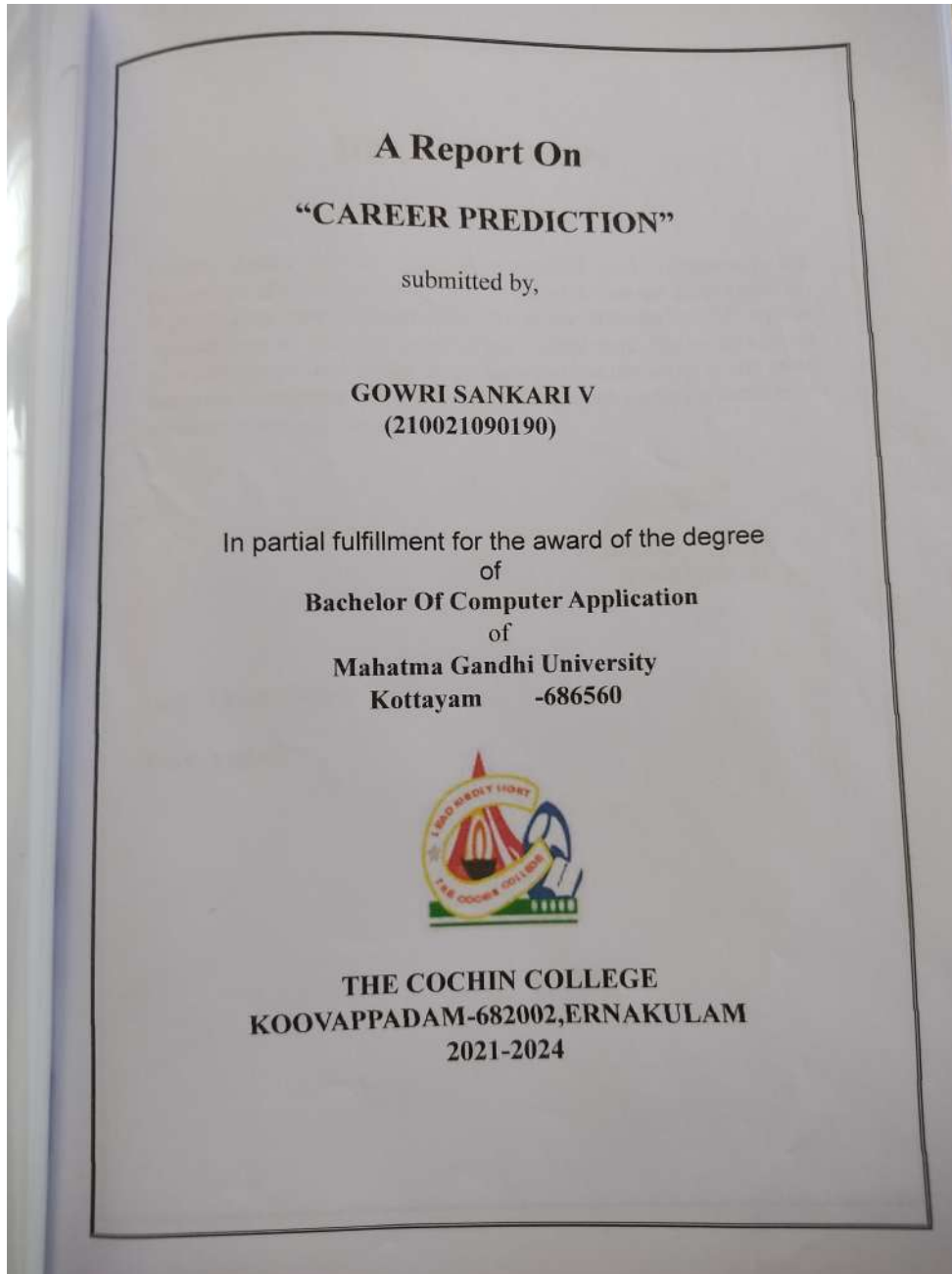
THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

A Report On

“ RENT A CAR ”

Submitted by,

MUHAMMED YAHIYA

(210021090209)

In partial fulfillment for the award of the degree

Of

Bachelor of Computer Application

Of

Mahatma Gandhi University Kottayam -686560



THE COCHIN COLLEGE KOVAPPADAM-682002,
ERNAKULAM 2021-2024

1





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

DECLARATION

I hereby declare that the report of this project work, submitted to the Department of Computer Science, The Cochin College, Koovappadam, in partial fulfillment of the award of the degree of Bachelor of Computer Application is an authentic record of my original work. The report has not been submitted for the award of any degree of this university or any other university. I understand that detection of any such copying is liable to be punished in any way the college deems fit.

MUHAMMED YAHYA (210021090209)

Date:

Place:

2





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

THE COCHIN COLLEGE

KOOVAPPADAM-682002



CERTIFICATE

This is to certify that the project report titled "RENT A CAR" submitted by **MUHAMMED YAHYA (210021090209)**, in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications and is a record of bonafide work carried out by him during the academic year 2021-2024

SHINDA VARGHEESE
Project Guide

KEERTHANA S
Head of the department

Submitted for the Viva-Voce held on at.....

Internal Examiner

External Examiner



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

AKNOWLEDGEMENT

In the name of Almighty, I express my sincere thanks to him for keeping us fit for the successful

completion of the project.

We convey our sincere thanks to **Ms. KEERTHANA S**, HOD, Department of Computer Application, The Cochin College, who provide us the opportunity to carry out the project work in this esteemed organization and for all their help and encouragement.

We express our deep sense gratitude to our project guide, **Ms. SHINDA VARGHEESE**, Assistant Professor, Department of Computer Application, The Cochin College, and all the teachers and staff members of the institute for their whole hearted co-operation throughout our project, without which the project could not have been accomplished successfully.

We also wish to extend our heartfelt gratitude to our parents, lecturers and friends for their valuable suggestions and encouragement without which this venture would not have been a success.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

ABSTRACT

The Car Rental Management System is a software application that provides a comprehensive solution for managing car rental businesses. The system enables car rental companies to manage their operations efficiently by automating various tasks, including vehicle reservation. The Car Rental Management System provides many benefits to car rental companies, including improved efficiency, reduced paperwork, enhanced customer experience, and increased revenue. Additionally, the system provides real-time visibility into rental operations, enabling car rental companies to make informed business decisions based on real-time data. The system is designed to be user-friendly, allowing car rental companies to easily manage their rental fleets and monitor their business operations. The Car Rental Management System consists of two main components: a front-end interface that is used by customers to make rental reservations, and a back-end system used by the car rental company to manage their business operations.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

CONTENTS	PAGENO
1. INTRODUCTION	11
2. SYSTEM ANALYSIS	12
2.1 EXISTING SYSTEM	13
2.2 PROPOSED SYSTEM	14
2.3 FEASIBILITY STUDY	14
2.3.1 ECONOMICAL FEASIBILITY	
1513	
2.3.2 TECHNICAL FEASIBILITY	14
2.3.3 OPERATIONAL FEASIBILITY	14
3. SYSTEM REQUIREMENT SPECIFICATION	15
3.1 ABOUT THE HARDWARE	15
3.2 ABOUT THE SOFTWARE	16
4. SYSTEM ANALYSIS AND DESIGN	19
4.1 DATA FLOW DIAGRAM	20
4.2 ER DIAGRAM	24
4.3 SYSTEM DESIGN	31
4.4 INPUT DESIGN	32
4.5 OUTPUT DESIGN	32
4.6 TABLE DESIGN	32

6





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5. SYSTEM TESTING AND IMPLEMENTATION	33
5.1 SYSTEM TESTING	36
5.1.1 UNIT TESTING	39
5.1.2 INTEGRATION TESTING	40
5.1.3 VALIDATION TESTING	42
5.1.4 OUTPUT TESTING	42
5.1.5 SYSTEM IMPLEMENTATION	43
6. CONCLUSION	48
7. APPENDIX	49
8. BIBLIOGRAPHY	62





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

1.INTRODUCTION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

INTRODUCTION

The Car Rental Management System is a software application that provides a comprehensive solution for managing car rental businesses. The system enables car rental companies to manage their operations efficiently by automating various tasks, including vehicle reservation. The Car Rental Management System provides many benefits to car rental companies, including improved efficiency, reduced paperwork, enhanced customer experience, and increased revenue. Additionally, the system provides real-time visibility into rental operations, enabling car rental companies to make informed business decisions based on real-time data. The system is designed to be user-friendly, allowing car rental companies to easily manage their rental fleets and monitor their business operations. The Car Rental Management System consists of two main components: a front-end interface that is used by customers to make rental reservations, and a back-end system used by the car rental company to manage their business operations.

MODULE DESCRIPTION

ADMIN

- Login and logout
- Add Car
- Delete Car
- View Car
- View customer
- View booking
- Delete booking

USER

- User can login with username and password
- View cars details
- Book car
- Payment
- Staffs can view duty time





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

STAFF

- View booking
- Add Schedule

DRIVER

- View booking
- View schedule





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

2.SYSTEM ANALYSIS





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.inemail: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

2.1 EXISTING SYSTEM

In this system user or customer will directly interact with the car owner and owner will decide whether the car is available or not. Then if it is available he will give rent a car to the customer. The main drawback of this system is customer need to meet the car owner. This is time waste process.

Disadvantages of existing System:

- 1) User should manually go and book the car.
- 2) It's time taking process and cost also
- 3) Doesn't fulfill the client requirements fully.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

2.2 PROPOSED SYSTEM

In this car rental system we are going to introduce online booking of car rent will be available. So the Burdon of the customer will be reduced. Our Aim is to design and create a data management System for a car rental company. This enables admin can rent a car that can be used by a customer. This system increases customer retention and simplify car and staff Management in an efficient way.

- This software car Rental System has a very user friendly interface. Thus the users will feel very easy to work on it. By using this system admin can manage customer confirmand cancel booking request, customer Testimonials, customer issues. The car information can be added to the system by admin
- And admin will decide the requested booking of the customer that should car on rent.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

2.3 FEASIBILITY STUDY

Feasibility study is an analysis of the ability to complete a project successfully, taking into account legal, economical, technological, scheduling and other factors, rather than just diving into a project and hoping for the best. A feasibility study allows project managers to investigate the possible negative and positive outcomes of a project before investing too much time and money. Therefore in short feasibility study can be defined as an assessment of the practicality of a proposed plan or method.

There are three aspects in the feasibility study portion of the preliminary investigation.

- Economic feasibility
- Technical feasibility
- Operational feasibility

2.3.1 ECONOMICAL FEASIBILITY

Economic Feasibility is the most frequently used method for evaluating the effectiveness of the proposed system, more commonly used as cost/benefit analysis. The procedure is to determine the benefit and savings that are expected from the proposed system and compare them with the cost, if the benefit over weight cost then the decision is made to design and implement the system, otherwise further justification in the proposed system will have it made, if it has chance to improve.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

2.3.2 TECHNICAL FEASIBILITY

Technical Feasibility is performed to check whether the proposed system is technically feasible or not. This feasibility assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system.

2.3.3 OPERATIONAL FEASIBILITY

Operational Feasibility refers to how well a planned system solves the problems of the user and how well it works at using the opportunities of the project. Operational Feasibility is one of the key elements of feasibility study.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

3.SOFTWARE REQUIREMENT SPECIFICATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

WHAT IS THE PROBLEM TO BE SOLVED

In the existing system it has to maintain fairly large staff for the smooth running of the processes, which affects its economy. Also payments are not secure and easy. Large efforts are needed in each process because of manual working. The proposed system is user friendly and provides error detection and correction immediately. In this system only few professionals are required and the management can give better service the users and companies who do hosting their advertisements through this site to various websites. Here the system follows online payment which is more secure than the DD payment in the existing system. It also possess efficient utilization of resources. By automating the processes the efficiency also increased.

CUSTOMER REQUIREMENTS

- Xml parsing
- . Free and Premium ads
- Count Clicks
- Renewal Alert
- Secure Payment
- 24*7 service
- Animated ads

WHAT THE DEVELOPERS NEED TO KNOW

The developers should have Well knowledge about the existing system, know the drawbacks of existing system drawbacks. The developer need to know the limitations of a user and what the need of a user are. The developer should have knowledge about the proposed overcome the limitations of existing system. The developed language in which the software is developed.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

BUSINESS REQUIREMENTS

Business requirements evolves one opportunity for improvement involves making reasonable estimates of how big a project is and how much it is going to cost. Business requirements are critical activities of an enterprise that must be performed to meet the organizational objective while remaining solution independent.

A business requirements document details the business solution for a project including the documentation of customer needs and expectations.

The business requirements are:-

- Fast access without lagging.
- Provides graphical user interface.
- Easy to access.
- User friendly.

USER REQUIREMENTS

All users should have registration. The admin can view all the details of both the companies and the websites. For showing an ad on a website approval from both admin and hosting website are needed. First admin approves then only website approves.

- Provides secure online payment.
- Reduce human effort.
- Reliable and efficient.
- Time saving.
- Easy to manage the advertisements of number of companies.
- User friendliness and interactive.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

FUNCTIONAL REQUIREMENTS

The primary purpose of this web based project is hosting of advertisements in various websites. The Ad Server concentrates on how an advertisement is hosted in to websites. This helps the companies and websites to host their advertisements.

3.1 HARDWARE SPECIFICATION

PROCESSOR	Core i3 7 th Gen
CLOCK SPEED	2 GHZ
SYSTEM BUS	64 BIT
RAM	4 GB
HDD	500 GB or Above
MONITOR	VGA COLOR
KEY BOARD	Standard Keyboard
MOUSE	OPTICAL MOUSE





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

3.2 SOFTWARE SPECIFICATION

OPERATING SYSTEM	WINDOWS 10 OR HIGHER VERSION
WEB SERVER	IIS 6.0
FRONT END	HTML,CSS,BOOTSTRAP,JAVASCRIPT
SCRIPTING	PYTHON
FRAMEWORK	DJANGO
BACKEND	SQLLITE3
BROWSER	INTERNET EXPLORER, GOOGLE CHROME, MOZILLA FIREFOX



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4. SYSTEM ANALYSIS AND DESIGN





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

SQL server

SQL Server is a relational database management system developed by Microsoft. It provides an enterprise-level data management platform for an organization. It offers support for developing robust server-side applications. SQL Server is not just simple RDBMS but also provides reporting capabilities, data analysis and mining and features for processing data while waiting for data synchronization with the front-end application.

Feature of SQL server

The major features of SQL Server as well as enhanced features are listed below.

Easy installation

SQL Server provides a set of administrative and development tools for easy installation, deployment, and management.

Integration with internet

SQL Server has a database engine which is a core integral part of the RDBMS and stores data in tables. In SQL Server, the database engine provides integrated support for Extensible Markup Language (XML), thus enriching support for web development. It offers scalability, availability, and security features that are necessary to operate the data components for large websites. It supports features like English Query, to process user-friendly queries, and Microsoft Search Service that provides powerful search capabilities in Web Applications.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

Scalability and availability

One of the editions of SQL Server, the Enterprise Edition, offer support for balancing and processing load across multiple servers, computing and storing views gathered by queries and large memory support. These features combined with multiple platform capabilities allow AQL Server to provide the performance levels required by any large websites.

Support for client/server model

SQL Server is designed to follow the client/server modal. In this model the client and the server take part in a request-server dialog. An application runs on the client and requests data from the server. The server processes the request and sends back only the data that the client requested. As a result, the workload is split between the client and the server. The client's job is to request the data via language statements, whereas the server's job is to process the request and send the result back to the client.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4.1. DFD NOTATIONS

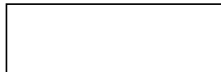
DATA FLOW: Data move in specific direction from an origin to a destination. The data flow is a "packer" of data.



PROCESS: People, procedures or devices that produce data the physical component is not identified.



SOURCE OR DESTINATION OF DATA: External sources or destination of data, which may be people of organization or other entities.



DATA STORE: Here the data referenced by a process in the system.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

Primitive symbols used for constructing DFD

External Entity Symbol: The external entities are essentially those physical entities external to the software system which interact with the system by inputting data to the system or by consuming the data produced by the system. In addition to the human users, the external entity symbols can be used to represent external hardware and software such as application software.

Process or Function Symbol: A function is represented using a circle. It represents either a data structure or a physical file on a disk. Each data store is connected to a process by means of a data flow symbol.

Data Flow Symbol: A data flow symbol represents the data flow occurring between two processes, or between an external entity and a process, in the direction of the data flow arrow. The direction of the data flow arrow shows whether data is being read from or written into a data store. An arrow flowing in or out of a data store implicitly represents the entire data of the data store and hence arrows connecting to a data store need not be annotated with the name of the corresponding data item.

Output Symbol: The output symbol is used when a hard copy is produced and the user of the copies cannot be clearly specified or there are several users of the output.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

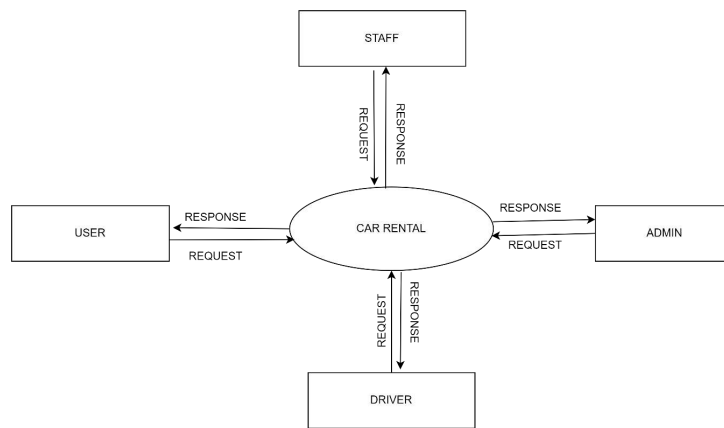
email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4.2 DATA FLOW DIAGRAM

LEVEL - 0





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

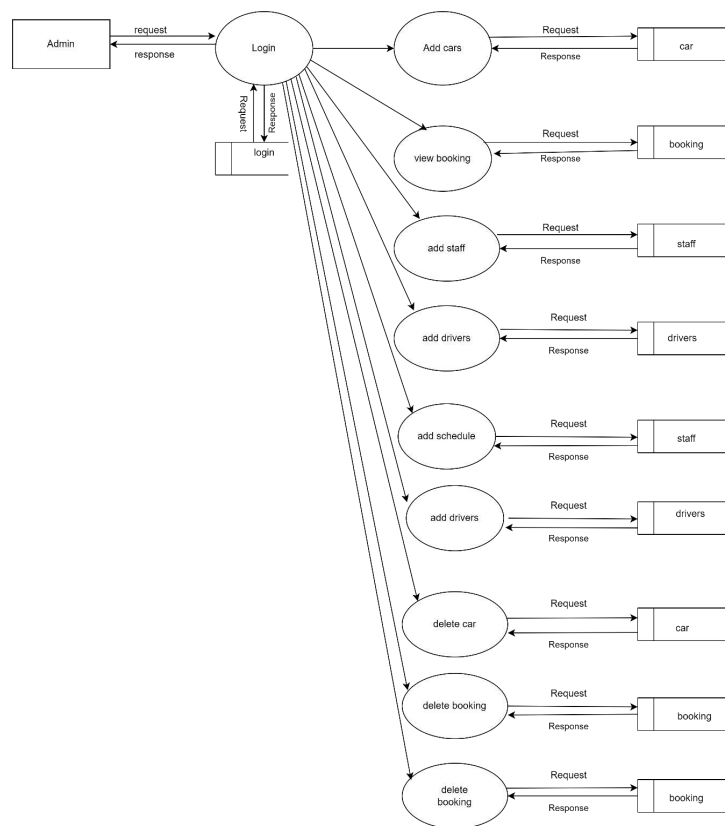
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

LEVEL - 1 (Admin)





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

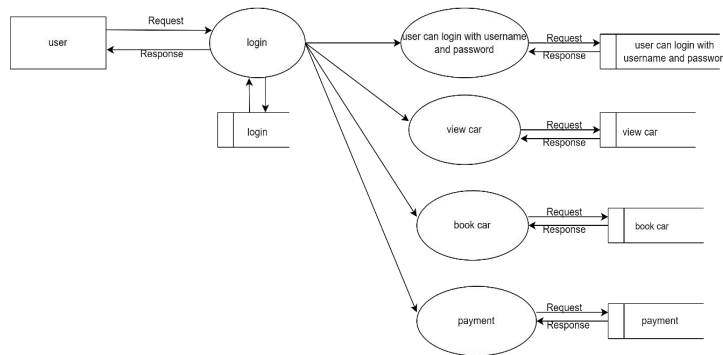
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

LEVEL - 2 (User)





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

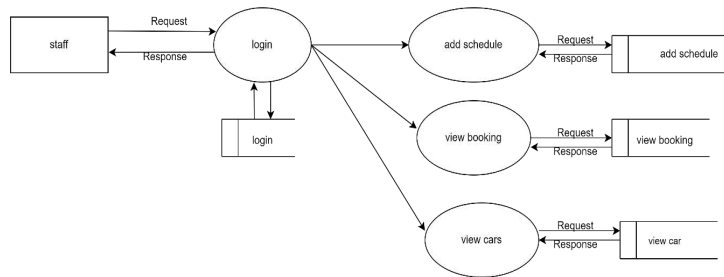
Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

LEVEL – 3 (Staff)





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

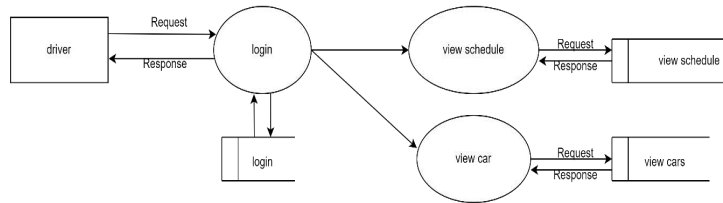
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

LEVEL - 4 (Driver)





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

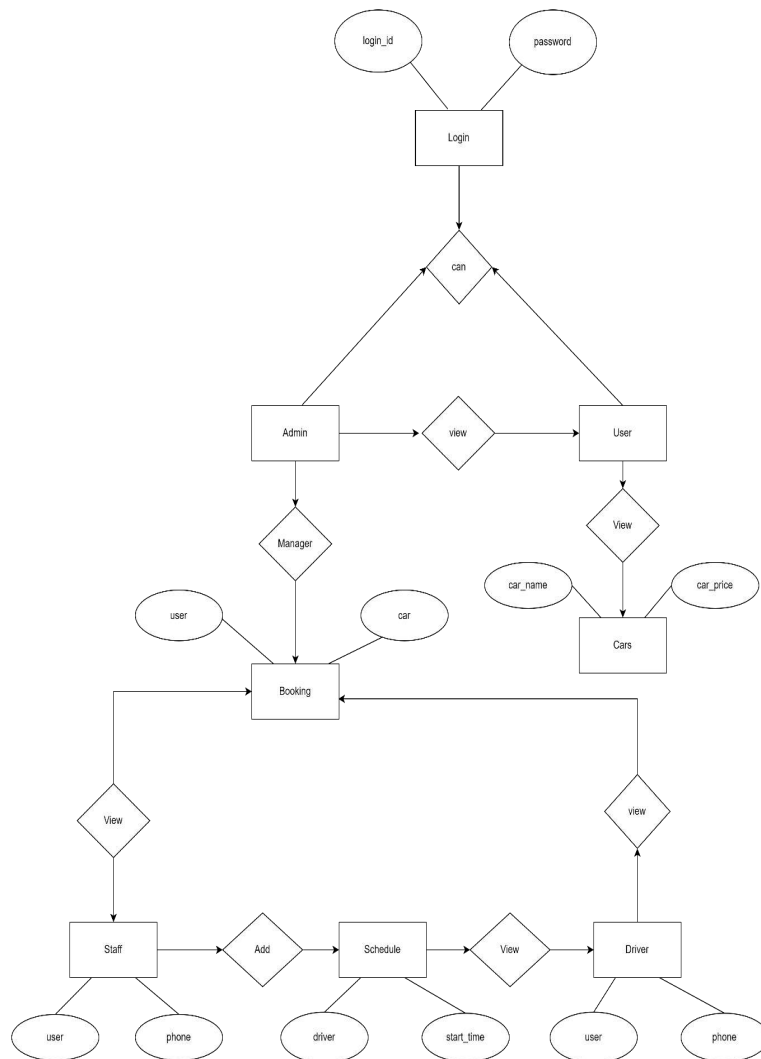
Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4.3 ER DIAGRAM





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4.4.SYSTEM DESIGN

The most creative and challenging phase of the system development is system design. It is a solution to how to approach to the creation of the proposed system. System design refers to the technical specification that will be applied. System Design is the creative act of invention, developing new inputs, a database, offline files, method, procedures and output for processing business to meet an organization objective. System design builds based on the information gathered during the system analysis. System design provides shape and structure to the information gathered during the system analysis so that the requirements and objectives are changed to the useable format.

4.4.1 INPUT DESIGN

The input design is the link between the information system and the user. It comprises the developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

What data should be given as input? How the data should be arranged or coded?

The dialog to guide the operating personnel in providing input.

Methods for preparing input validations and steps to follow when error occur.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

OBJECTIVES:

1. Input Design is the process of converting a user-oriented description of the input into a computer-based system. This design is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.
2. It is achieved by creating user-friendly screens for the data entry to handle large volume of The goal of designing input is to make data entry easier and to be free from errors. The data entry screen is designed in such a way that all the data manipulates can be performed. It also provides record viewing facilities.
3. When the data is entered it will check for its validity. Data can be entered with the help of screens. Appropriate messages are provided as when needed so that the user will not be in maize of instant. Thus the objective of input design is to create an input layout that is easy to follow

4.4.2. OUTPUT DESIGN

A quality output is one, which meets the requirements of the end user and presents the information clearly. In any system results of processing are communicated to the users and to other system through outputs. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent output design improves the system's relationship to help user decision-making.

1. Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analysis design computer output, they should Identify the specific output that is needed to meet the requirements.
2. Select methods for presenting information.
3. Create document, report, or other formats that contain information produced by the system.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

The output form of an information system should accomplish one or more of the following objectives.

- Convey information about past activities, current status or projections of the Future.
- Signal important events, opportunities, problems, or warnings.
- Trigger an action.
- Confirm an action





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4.4.3 TABLE DESIGN

Database design is the logical form of design of data storage in the form of records in a particular structure in the form of tables with fields which is not transparent to the normal user but it actually acts as the backbone of the system. As we know database is a collection of data. which helps the system to manage and store data called database management system. Data base management system builds some form of constraints like integrity constraints, ie, the primary key unique key and referential integrity which help to keep data structure storage and access of data from tables efficiently and accurately and take necessary steps to concurrent access of data and avoid redundancy of data in tables by normalization criterions.

Normalization is the method of breaking down complex table structures into simple table structures by using certain rules thus reduce redundancy and inconsistency and disk space usage and thus increase the performance of the system or application which is directly linked to the database design and also solve the problems of anomalies. The Data Base design of new system's is in second normal form and the second normal form defines that all non-key fields of the table are fully dependent on the whole key. Each field of the tables is made to depend only on key attributes and dependency on non key fields is eliminated.

Objectives if database are

- Controlled redundancy
- Ease of learning and use
- Data independence
- More information at low cost
- Accuracy from failure
- Privacy and security
- Performance





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

4.5 TABLE DESIGN

1. Car

Field	Type	Size	Constrains	description
car_img	varchar	50	Not Null	Image of the car
car_name	varchar	50	Not Null	Name of the car
car_type	varchar	50	Not Null	Type of car
car_price	int	50	Not Null	Price of the car

2. Booking

Field	Type	Size	Constrains	description
user	varchar	50	Not Null	ID for the user
car	varchar	50	Not Null	Name of the car
Booking_date	int	50	Not Null	Booking date of the car
Return_date	int	50	Not Null	Return date of the car
carprice	int	50	Not Null	Price of the car

3. Login

Field	Type	Size	Constrains	description
id	tinyint	50	Primary Key	ID for login





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

password	varchar	50	Not Null	Password for logging
Last_login	bigint	50	Not Null	Last login
username	Varchar	50	Not Null	User name of the user
First_name	varchar	50	Not Null	First name of the user
Last_name	varchar	50	Not Null	Last name of the user
Is staff	varchar	50	Not Null	Staff for login
Is activate	varchar	50	Not Null	Activate to login
User type	varchar	50	Not Null	User type of the user
User password	varchar	50	Not Null	User password of the user

4. Driver

Field	Type	Size	Constrains	description
user	varchar	50	Not Null	ID of the user
phone	varchar	50	Not Null	phone

5. Staff





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

Field	Type	Size	Constrains	description
user	tinyint	50	Not Null	ID for the user
phone	varchar	50	Not Null	phone





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5. SYSTEM TESTING AND IMPLEMENTATION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5.1. System testing

This section discusses about the business, technical or resource related constraint that may keep us from performing all tests necessary. Time schedule is a major constraint when we talk about testing at the site. The application is developed using a PC this means that we cannot test the software using the PC from some other brand or PC that is of lesser price and lower hardware. Testing the security of the software is one major constraint so we have to rely on our own knowledge and have to trust the software for the security. There is no large group of people to use the applications at the same time to perform real stress related testing. So we will not be able to test the product for the larger user base.

Software testing is the process used to measure the quality of developed computer software. Usually, quality is constrained to such topics as correctness, completeness, security, but can also include more technical requirements as described under the ISO standard, such as capability, reliability, efficiency, portability, maintainability, compatibility, and usability. In general test plan commences with a test plan and terminates with acceptance testing. A test plan is a general document for the entire project that defines the scope, approach to be taken and the schedule of testing as well as identifies the test items for the entire testing process and the personnel responsible for the different activities of testing. The test planning can be done well before the actual testing commences and can be done in parallel with the coding and design phases. Procedures for testing software must be in place before testing begins. Lack of software testing procedures or using procedure that is not clearly and completely defined often results in time delays and cost overruns. To be useful, software testing procedures must encompass all aspects of the software testing process. It's vitally important that the procedures define the people who will be involved in the testing process, the skill set of each team member, and their availability for the duration of the testing cycle. For the software cycle to remain on track, the software testing procedure must also delineate a carved-in-stone testing schedule including dates of important milestones





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5.1.1. Test Plan

A test plan is a general document for the entire project that defines the scope, approach to be taken, and the schedule of testing as well as identifies the test items for the entire testing process and the personnel responsible for the different activities of testing. The test planning can be done as well before the actual testing commences and can be done in parallel with the coding and design phases. A test plan should contain the following

- Test unit specification
- Features to be tested Approach for testing
- Test deliverables Schedule
- Personal allocation

5.1.2. Testing Strategy

Software is viewed as a white-box, in white-box testing, as the structure and flow of the software under test are visible to the tester. Testing plans are made according to the details of the software implementation, such as programming language, logic, and styles. Test cases are derived from the program structure. While white box testing is applicable at the unit, integration and system levels of the software testing process, it's typically applied to the unit. So while it normally tests paths within a unit, it can also test paths between units during integration, and between subsystems during a system level test.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5.1.3. Unit Testing

Unit testing is considered an equivalent to the coding step. After the source level code has been developed, reviewed and verified for correct syntax, unit test case design begins since a module is not a standalone program, 'driver' and/or 'stub' S/W must be developed for each unit test.

5.1.4 Integration Testing

The second level of testing is known as integration testing. In this, many unit modules are combined into sub systems, which are then tested. The goal here is to ensure if the modules are integrated properly. Hence the emphasis is on testing interfaces between the modules. This testing can be considered testing the design. Here for the sake of software in order to do the repayment of loan, so this has to be integrated with account creation. Then in order to make use of net banking facility, the account has to be properly integrated. Integration testing (sometimes called Integration and Testing, abbreviated I&T) is the phase of software testing in which individual software modules are combined and tested as a group. It follows unit testing and precedes system testing. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system ready for system testing. The purpose of integration testing is to verify functional, performance and reliability requirements placed on major design items. These "design items", i.e. assemblages (or groups of units), are exercised through their interfaces using black box testing, success and error cases being simulated via appropriate parameter and data inputs. Simulated usage of shared data areas and inter-process communication is tested and individual subsystems are exercised through their input interface. Test cases are constructed to test that all components within assemblages interact correctly, for example across procedure calls or process activations, and this is done after testing individual modules, i.e. unit testing. The overall idea is a "building block" approach, in which verified assemblages are added to a verified base which is then used to support the integration testing of further assemblages. The different types of integration testing are big bang, top-down, bottom-up, and back bone.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

In this system mainly we have five modules, all the inputs of these modules are output of unit testing. The individual components, which are tested, mbined together for integration testing.

5.1.5 Validation testing

Validation testing is the process of evaluating software at the end of the software development process to ensure compliance with software requirements. Validation testing is where requirements established as a part of software requirement analysis is validated against the software that has been constructed. This test provides the final assurance that the software meets all functional, behavioral and performance requirements. The errors. which are uncovered during integration testing, are corrected during this phase.

Errors discovered where corrected prior to completion of this project with the help of the user by negotiating to establish the method of resolving deficiencies. Thus the proposed system under consideration has been tested by using validation testing and found to be working satisfactorily. During this phase the user check whether the system works in a proper manner or not. The developer will correct all the errors that are remaining unchanged. After integration testing may be some bugs will remain in the system. It will affect the proper functionality of the system. In order to avoid this Validation testing is necessary. Validation test is defined with a simple definition that validation succeeds when the software functions in a manner that can be reasonably accepted by the customer. By using the helpful information's from the organization we can remove the defects of the system.

The various modules that require validation are in creation of new subject, view subjects,view registered teachers and also whether valid users are logged in, check if mail-id are valid.etc.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5.1.6 Testing tools and environment

Our objective is to design tests that systematically uncover different classes of errors and to do so with a minimum amount of time and effort. Two classes of input are provided to the test process:

A software configuration that includes a software requirements specification, a design specification and source code 2. A test configuration that includes a test plan and procedure and testing tools that are to be used, and test cases and their expected results. In actuality, the test configuration is a subset of software configuration.

Tests are conducted and the results are evaluated. That is, test results are compared with the expected results. When erroneous data are uncovered an error is implied and debugging commences. Debugging is the most unpredictable part of testing process. If severe errors are encountered, software quality and reliability is suspect and further tests are indicated. If software functions appear to be working properly and the errors encountered are easily correctable, the conclusion can be

1. Software quality and reliability are acceptable
2. Tests are inadequate to uncover severe errors.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5.1.7. Unit test cases

In this method of testing we will test the smallest unit of software called modules. We will be testing all the important paths to find any errors within the boundary of module. So here we will apply sort of white box search. We will be testing parts of the software rather than the entire software.. The modules are as follows. The procedure for unit testing is described for each software component i.e. teacher registration, login, student registration, mailing.

5.2 IMPLEMENTATION

Implementation is the final stage and it's an important phase. It involves the individual programming, system testing, user training and the operational running of developed proposed system that constitute the application subsystems. One major task of preparing for implementation is education of users, which should really have been taken place earlier in the project when they were being involved in the investigation and design work. During the implementation phase system actually takes physical shape. In order to develop a (system) implemented, planning is very essential. The implementation phase of the software development is concerned with translating design specifications into source code.

The user tests the developed system and changes are made according to their needs. Our system has been successfully implemented. Before implementation several tests have been conducted to ensure that no errors are encountered during the operation. The implementation phase ends with an evaluation of the system after placing it into operation for a period of time. Implementation is the third phase of the system process.

In order to achieve the objectives and the expected performance the system has been developed in a highly interactive and user-friendly manner.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

5.2.1. Implementation methods

The three types of implementation are:

- Implementation of a new computer system to replace an existing one.
- Implementation of a modified application to replace an existing one.
- Implementation of a computer system to replace a manual. Installation is a part of implementation, concerned with the portion of application from the developing site to the site of its working. Also the links to the database are to be established from the server. While transferring the files from the current location to the destination care must be taken, so that the file paths do not change in the transfer.

5.2.2. Implementation plan

The following are the steps involved in the implementation plan:

- Test system with sample data
- Detection and correction errors
- Make the necessary changes in the system
- Check with the existing system
- Installation of hardware and software utilities
- Training and involvement of user personnel

5.2.3. Post implementation review

The process of putting the developed system in actual use is called system implementation. This includes all those activities that take place to convert from old system to new system. The





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.inemail: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

system can be implemented only after testing is done and is found to be working according to specifications. The implementation stage involves following tasks.

- Careful planning
- Investigation of system and constraints
- Design of method to achieve change over
- Evaluation of the changeover method

6.CONCLUSION





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

CONCLUSION

In conclusion, the car rental project presents a robust solution to the challenges faced by both customers and rental agencies in the vehicle rental industry. By incorporating advanced technologies and user friendly interfaces, the project aims to streamline the rental process, improve customer satisfaction, and maximize operational efficiency. Through features such as online booking, real-time vehicle tracking, and secure payment processing, it offers convenience and reliability to users. Additionally, the administrative tools provided empower rental agencies to effectively manage their fleet, optimize resources, and enhance business performance. As a result, the car rental project not only meets the current needs of the industry but also sets a foundation for future innovation and growth, ultimately fostering a seamless and enjoyable rental experience for all stakeholders involved.





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

7.APPENDIX





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

```

from django.shortcuts import render,redirect

from .models import Doctors,Booking

from .forms import BookingForm

from django.contrib import messages

% extends 'staff/staffbase.html' %
{% block title %
Booking Details
{% endblock %

{% block content %
<h1 class="text-center">All Bookings</h1>
<table style="margin-left:30%">
  <thead style="border:1px solid black">
    <tr >

      <th style="border:1px solid black">User</th>
      <th style="border:1px solid black">Car</th>
      <th style="border:1px solid black">Booking Date</th>

      <th style="border:1px solid black">Return Date</th>
    <!-- Add more columns as needed -->
  </tr>
</thead>
<tbody style="border:1px solid black">
  {% for booking in all_bookings %}
  <tr style="border:1px solid black">

    <td style="border:1px solid black">{{ booking.user.username }}</td>
    <td style="border:1px solid black">{{ booking.user.username }}</td>
    <td style="border:1px solid black">{{ booking.car.carname }}</td>
    <td style="border:1px solid black">{{ booking.booking_date }}</td>
    <td style="border:1px solid black">{{ booking.return_date }}</td>
    <!-- Add more columns as needed -->
  </tr>
  {% endfor %}
</tbody>
</table>

```

50





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

```

{% endblock % }
</div>
</div>
<!-- end row -->
</div>
{% endblock % }

{% extends 'base.html' % }

{%block title % }
Booking
{% endblock % }
{%block content % }

<
="row">
<div class="col-xs-12 col-md-4" style="height:500px; width:600px;">
<div class="panel panel-default">
<div class="panel-heading">
<h3 class="panel-title">
Payment Details

```



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

```

<div class="checkbox pull-right">
  <label>
    <input type="checkbox" />
    Remember
  </label>
</div>
</div>
<
<!DOCTYPE html>
<html lang="en">
<head>
<title>{%block title %}
Life Care
{% endblock %}</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- Site Icons -->
<meta name="keywords" content="">
<meta name="description" content="">
<meta name="author" content="">
<!-- <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KK94CHFLLe+nY2dmCWGMq91rCGa5gtU4mk92HdvYe+M/SXH301p5ILy+dN9+nJOZ"
crossorigin="anonymous"> -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
<link href="https://cdn.jsdelivr.net/npm/font-awesome@5.15.0/css/all.min.css"
rel="stylesheet">

<!-- Site Icons -->

```

52





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

```

<link rel="shortcut icon" href="{% static 'images/fevicon.ico.png' %}" type="image/x-
icon" />
<link rel="apple-touch-icon" href="{% static 'images/apple-touch-icon.png' %}">
<!-- Bootstrap CSS -->
<link rel="stylesheet" href="{% static 'css/bootstrap.min.css' %}">
<!-- Site CSS -->
<link rel="stylesheet" href="{% static 'css/style.css' %}">
<!-- Colors CSS -->
<link rel="stylesheet" href="{% static 'css/colors.css' %}">
<!-- ALL VERSION CSS -->
<link rel="stylesheet" href="{% static 'css/versions.css' %}">
<!-- Responsive CSS -->
<link rel="stylesheet" href="{% static 'css/responsive.css' %}">
<!-- Custom CSS -->
<link rel="stylesheet" href="{% static 'css/custom.css' %}">
<!-- Modernizer for Portfolio -->
<script src="{% static 'js/modernizer.js' %}"></script>

</head>
<body class="clinic_version">
<header>
<div class="header-top wow fadeIn" style="visibility: visible; animation-name: fadeIn;">

<div class="container">
<a class="navbar-brand" href="{% url 'index' %}"></a>
<div class="right-header">
<div class="header-info">
<div class="info-inner">
<span class="icontop"></span>
<span class="iconcont"><a href="#">800 123 456</a></span>
</div>

```

53





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

```

<div class="info-inner">
  <span class="icontop"><i class="fa fa-envelope" aria-
hidden="true"></i></span>
  <span class="iconcont"><a data-scroll href="">info@Lifecare.com</a></span>
</div>
</div>
</div>
</div>
</div>
<div class="header-bottom wow fadeIn" style="visibility: visible; animation-name:
fadeIn;">

<div class="container">
  <nav class="main-menu">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
data-target="#navbar" aria-expanded="false" aria-controls="navbar"><i class="fa fa-bars"
aria-hidden="true"></i></button>
    </div>

    <div id="navbar" class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li><a class="active" href="{% url 'index' %}">Home</a></li>
        {% if user.is_authenticated %}
        <li><a data-scroll href="{% url 'about' %}">About us</a></li>

        <li><a data-scroll href="{% url 'doctors' %}">Doctors</a></li>
        <li><a data-scroll href="{% url 'booking' %}">Booking</a></li>
        <li><a data-scroll href="{% url 'contact' %}">Contact</a></li>
        <li><a data-scroll href="/register/logout/">Logout</a></li>
      </ul>
      {% else %}
      <ul class="nav navbar-nav navbar-right">

```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

```
{%block title %}
doctors
{% endblock %}
```

```
{%block content %}
```

```
<div class="container text-center" style="margin-top: 175px;">
<h1 style="font-size: xx-large;">Our Doctors</h1>
<hr>
</div>
```

```
<div class="container text-center bg-info">
```

```
{% for d in doc %}
```

```
<div class="card text-center" style="width: 18rem; display:inline-block;margin: 20px;">
```

```

```

```
<div class="card-body">
```

```
<h2 class="card-text">{{ d.doc_name }} </h2>
```

```
<h4 class="card-text">{{ d.doc_spec }} </h4>
```

```
</div>
```

```
</div>
```

```
{% endfor %}
```

```
</div>
```

```
{% endblock %}
```





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

7.2 Screenshots





THE COCHIN COLLEGE

KOCHI - 682 002

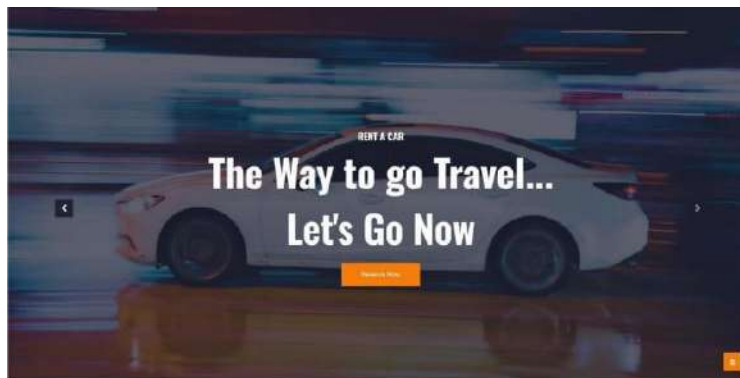
(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE



01 WELCOME TO WHEEL DEEL



Looking for more to explore your thoughts? Why not go on a car rental? This feature has some incredible quality that makes it a perfect choice. It's a great way to explore the world and see the world from a different perspective. It's a great way to explore the world and see the world from a different perspective. It's a great way to explore the world and see the world from a different perspective.

- 24/7 CAR RENTAL SUPPORT
- CAR RESERVATION ANYTIME
- LOTS OF PICKUP LOCATIONS



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE



Staff loginpage



Mendula Menon
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

The screenshot displays a website for 'Wheel Deal' with a dark theme. At the top, there is a navigation bar with 'WHEEL DEAL' and a menu including 'HOME', 'ABOUT', 'CAR LIST', 'CONTACT', and 'FAQS'. Below the navigation is a hero section with a blurred image of a car at night and the text: 'RENT A CAR', 'The No Frills Way To Drive...', 'Let's Go Now', and a 'Rent Now' button. Underneath is a 'User car list' section with a sub-header 'Available Cars' and a menu with 'HOME', 'ABOUT', 'CAR LIST', 'CONTACT', and 'FAQS'. Three car listings are shown: 'Isuzu Creta Diesel 1100cc, 5v' with a 'Rent Now' button, 'Audi Petrol 1500cc, 5v' with a 'Rent Now' button, and 'VW Polo Petrol'.



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

The screenshot displays two web pages. The top page is a 'CONTACT US' form with fields for 'Your Name', 'Email', and 'Message', and a 'SEND MESSAGE' button. To the right, there are links for 'Road Office', 'Customer Service', and 'Return & Refund'. The bottom page is an 'Admin' dashboard with a dark theme, showing a table of users and a sidebar menu.



Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochoincollege.edu.in

email: email@thecochoincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

8.BIBLIOGRAPHY





THE COCHIN COLLEGE

KOCHI - 682 002

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

RENT A CAR

THE COCHIN COLLEGE

- <https://www.geeksforgeeks.org/python-programming-language/>
- <https://www.w3schools.com/>
- <https://www.tutorialspoint.com>
- <https://www.javatpoint.com>

