HOSPITAL MANAGEMENT SYSTEM

AN INTERNSHIP REPORT

Submitted by

PATEL PRITKUMAR MEHULKUMAR

190770116099

In fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

In

Information Technology

Silver Oak College Of Engineering and Technology, Ahmedabad

Gujarat Technological University, Ahmedabad

[May-2023]

Silver Oak College Of Engineering and Technology,

Ahmedabad

CERTIFICATE

This is to certify that the project report submitted along with the project entitled **Hospital Management System** has been carried out by **Patel Pritkumar Mehulkumar** under my guidance in fulfilment for the degree of Bachelor of Engineering in **Information Technology**, 8th Semester of Gujarat Technological University, Ahmedabad during the academic year 2022-2023.

Prof. Naimishkumar Patel — Internal Guide

Dr. Vikas Tulshyan — Head of the Department

INTERNSHIP CERTIFICATE

SUDAKSH TECHNOLOGIES

LLPIN: AAL-9167
GSTIN: 24ADPFS2932P1ZF

204, Bankers House, Opp. Golden Triangles, Stadium Road,
Navrangpura, Ahmedabad, Gujarat
Contact: +91 9408 70 4484
Email: info@sudaksh.in

Date: 29 April 2023

Certificate of Internship

This is to certify that **Patel Pritkumar Mehulkumar**, a student of Silver Oak College of Engineering and Technology, has successfully completed 12 weeks of internship from 30 January 2023 to 28 April 2023 at SUDAKSH Technologies LLP as a Web Developer. During this period, he has demonstrated exceptional skills and dedication towards Hospital Management System project work.

He has worked closely with our team and has shown a deep understanding of Information Technology field, contributing to the development and implementation of innovative solutions. He has also exhibited a positive attitude, strong work ethic, and the ability to work well under pressure.

We appreciate his contribution to our organization and we are confident that he will continue to excel in his future endeavor. We wish him all the best in his future career.

SUDAKSH TECHNOLOGIES LLP

PARTNER

Keval Kelawala

Designated Partner,

SUDAKSH Technologies LLP

COMPLITITION CERTIFICATE

GUJARAT TECHNOLOGICAL UNIVERSITY

CERTIFICATE FOR COMPLETION OF ALL ACTIVITIES AT ONLINE PROJECT PORTAL

B.E. SEMESTER VIII, ACADEMIC YEAR 2022-2023

Date of certificate generation : 02 May 2023 (19:58:58)

This is to certify that, ***Patel Pritkumar Mehulkumar*** (Enrolment Number - 190770116099) working on project entitled with - from ***Information Technology*** department of ***SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY, AHMEDABAD*** had submitted following details at online project portal.

Internship Project Report	**Completed**

Name of Student : Patel Pritkumar Mehulkumar

Name of Guide : Mr. Naimishkumar Rasikbhai Patel

Signature of Student : _____

*Signature of Guide : _____

Disclaimer :
This is a computer generated copy and does not indicate that your data has been evaluated. This is the receipt that GTU has received a copy of the data that you have uploaded and submitted as your project work.

*Guide has to sign the certificate, Only if all above activities has been Completed.

Silver Oak College Of Engineering And Technology ,
Ahmedabad

DECLARATION

We hereby declare that the Internship report submitted along with the Internshipentitled **Hospital Management System** submitted in fulfillment for the degree of Bachelor of Engineering in **Information Technology** to Gujarat Technological University, Ahmedabad is a bona fide record of original project work carried out by me Sudaksh Technologies LLP under the supervision of Internal Guide **Prof.Naimishkumar Patel** and External Guide **Mr. Kaval Kelawala** and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student
Patel Pritkumar Mehulkumar

Sign of Student

ACKNOWLEDGEMENT

It is great pleasure for me to undertake this Internship as Web Developer Intern and a project at Sudaksh Technologies LLP. I feel highly doing the project entitled "**Hospital Management System**". I offer my sincere appreciation for the learning opportunities provided by Sudaksh Technologies LLP. I am very grateful and would like to thank my supervisor and external guide **Mr. Keval Kelawala** who has been mentoring me through the whole journey of this project and internship. I would also like to thank my Internal guide **Prof. Naimishkumar Patel** and Head of Department **Dr. Vikas Tulsyan** for their continued support. This Internship and project would not have completed without their enormous help and worthy experience. Whenever I was in need, they were there behind me. Although, this report has been prepared with utmost care and deep routed interest. Even then I accept respondent and imperfection. This opportunity has proved to be very useful to me in a way of taking responsibilities and enhancing my coding skills and becoming more code friendly.

Patel Pritkumar Mehulkumar
(190770116099)

ABSTRACT

Hospital management system website will provide a plethora of services such as patient registration, appointment scheduling, medical records management, doctor update, admin, and more. The system is secure, scalable, and customizable to meet the needs of different hospitals. By implementing this system, hospitals can improve their operational efficiency, reduce errors, and provide better patient care. Its backend will be in LARAVEL which is the framework of PHP.

The hospital system will be designed with a modern, professional, and user-friendly interface that will be optimized with a responsive technique for desktop, tablets, and mobile devices. The website will contain various sections, including "Home" page, "About Us" page, "Appointment" page, "Admin panel", "Contact Us" section, and a follow-up section.

LIST OF FIGURES

Figure 2.2.1 Organization Chart 03

Figure 2.2.1 SDLC 05

Figure 3.5.2.1 PHP 12

Figure 3.5.2.2 LARAVEL.....12

Figure 3.5.2.3 CSS & HTML.....13

Figure 3.5.2.4 JavaScript.....13

Figure 3.5.2.5 MySQL 14

Figure 3.7.1 Gannt Chart.....16

Figure 4.6.1 Use Case Diagram 20

Figure 4.6.2.1 Activity Diagram (Admin) 21

Figure 4.6.2.2 Activity Diagram (User).....22

Figure 4.6.2.3 Activity Diagram (Doctor) 23

Figure 5.3.1.1 Flow Chart(Admin) 26

Figure 5.3.1.2 Flow Chart(User).....27

Figure 5.3.1.3 Flow Chart(Staff).....28

Figure 6.2.1 Login.....30

Figure 6.2.2 Home Page.....30

Figure 6.2.3 Doctors 31

Figure 6.2.4 Appointment Patients 31

Figure 6.2.5 Admin Details.....32

Figure 6.2.6 Doctors Details 32

Figure 6.2.7 Appointments 33

Figure 6.2.8 Admin Profile 33

Figure 6.2.9 Email Verification 34

LIST OF TABLES

Table 3.6.1 Hardware Requirements……..……..14

Table 3.6.2 Software Requirements……. …..…15

Table 5.2.1 User Data……..……..……..……24

Table 5.2.2 Appointment ……..……. ….25

Table 5.2.3 Doctors ……..……..….25

Table 7.2.1.1 Test Cases……..……36

LIST OF ABBREVIATIONS

SDLC	**Software Development Life Cycle**
HMS	**Hospital Management System**
FIG.	**Figure**

TABLE OF CONTENTS

ACKNOWLEDGEMENT i

ABSTRACT ii

LIST OF FIGURES……...…...iii

LIST OF TABLES……..v

LIST OF ABBREVIATION……..vi

TABLE OF CONTENTS.....……..vii

Chapter-1 Overview of the Company 1

1.1 History 1

1.2 Different product/ scope of work 2

1.3 Services 2

1.4 Capacity of Plant 3

1.5 Organization Chart 3

Chapter-2 Overview of Different Process Being Carried Out in Company 4

2.1 Work being carried out in each department 4

2.2 Technical specifications of major equipment in each department 5

2.3 Explain in detail about each stage of production 6

Chapter-3 Introduction to Project 9

3.1 Project Summary 9

3.2 Purpose...……10

3.3 Objective…….10

3.4 Project Scope……...10

3.5 Literature Review and Technology…….11

3.5.1 Literature review ……..……11

3.5.2 Technology 12

3.6 Hardware And Software Requirements……..14

3.6.1 Hardware Requirements……...14

3.6.2 Software Requirements……15

3.7 Project Scheduling (Gantt Chart)..... 16

Chapter-4 System Analysis 17

4.1 Study of Current System 17

4.2 Problem and Weakness of Current System..... 17

4.3 Requirements of New System..... 17

4.4 System Feasibility..... 18

4.5 Activity/Process in New System..... 18

4.6 System Activity 19

4.6.1 Use Case Diagram 19

4.6.2 Activity Diagram 21

Chapter-5 System Design 24

5.1 System Design & Methodology 24

5.2 Data Dictionary..... 24

5.3 System Procedural Design..... 26

5.3.1 Flowchart Diagram 26

Chapter-6 Implementation 29

6.1 Technology Specification 29

6.1.1 User Authentication..... 29

6.1.2 Password Protection..... 29

6.1.3 Confidentiality..... 29

6.2 Outcomes 30

Chapter-7 Testing 35

7.1 Testing Plan/Strategy 35

7.2 Test Result and Analysis 36

7.2.1 Test cases 36

Chapter-8 Conclusion and Discussion 37

8.1 Overall Analysis of Internship 37

8.2 Dates of Surprise Visit by Institute Mentor 37

8.3 Dates of Continuous Evaluation (CE-I and CE-II) 37

8.4 Summary of Internship 37

8.5 Conclusion 38

References 39

CHAPTER 1
OVERVIEW OF COMPANY

1.1 HISTORY

Sudaksh Technologies LLP was founded in 2016 by a group of experienced software developers based in Gujarat, India. The company was established with the aim of providing high-quality software development services to clients across the globe.

In the early days, the company focused primarily on developing web applications for clients in a variety of industries. As the company grew, it expanded its services to include web application development, enterprise solutions, and other related services such as UAV sector and online marketing.

Over the years, the company has built a reputation for delivering high-quality solutions that are advanced to the unique needs of each client. The company works closely with clients throughout the entire software development life cycle, from initial planning and design to development, testing, and deployment.

Today, the company is a Robotics and Artificial Intelligence company working in the field of unmanned systems developing innovative solutions customized specifically for user requirement, designed for maximum reliability, safety, security, and availability.

With a continuous and strategic R&D, we excel at developing new technologies which pushes the boundaries of UAV Propulsion, Artificial Intelligence, Computer Vision, Sensors, and Data links Innovative data handling methods make the company a Digital First organization and Industry 4.0 ready

1.2 DIFFERENT PRODUCT/SCOPE OF WORK

Sudaksh Technologies LLP is their focus on using innovative and emerging technologies to provide cutting-edge solutions to their clients. The company has a dedicated research and development team that explores new technologies and tools to stay ahead of the curve.

The company offers a wide range of services to its clients. Some of the different scopes of work the company provides include:

- Custom software development: The company develops custom software solutions for clients to meet their specific business needs. This includes web applications, mobile applications, and enterprise solutions.
- Digital transformation: The company helps clients undergo a digital transformation by modernizing their existing systems, moving to the portfolio website of a business, and implementing new technologies to increase efficiency and productivity.
- IT consulting: The company provides IT consulting services to help clients with IT strategy development, technology selection, and project management.
- Hardware design and development: The company can design and develop custom UAV hardware components, such as airframes, sensors, and communication systems, based on client requirements.

In whole, the company has the expertise and capabilities to provide end-to-end UAV development solutions for clients, from concept to deployment.

1.3 SERVICES

Sudaksh Technologies LLP provides services in following field of Web Development, Artificial Intelligence technology development, Robotics technology development, CCTV installation, GeM Marketplace, UAV development, handling databases, and AR-VR Development, Game Development, etc.

1.4 CAPACITY OF PLANT

Sudaksh Technologies LLP is a creative digital agency based in India. They also enterprise in robotics development and consulting company as well as we design and develop mobile apps that delight your users and grow your business. The company size is 11-25 employees. Currently, there are 08 active employees on LinkedIn. The IT firm is specialized in mobile apps, web3, artificial intelligence, robotics, and solidity.

1.5 ORGANIZATION CHART

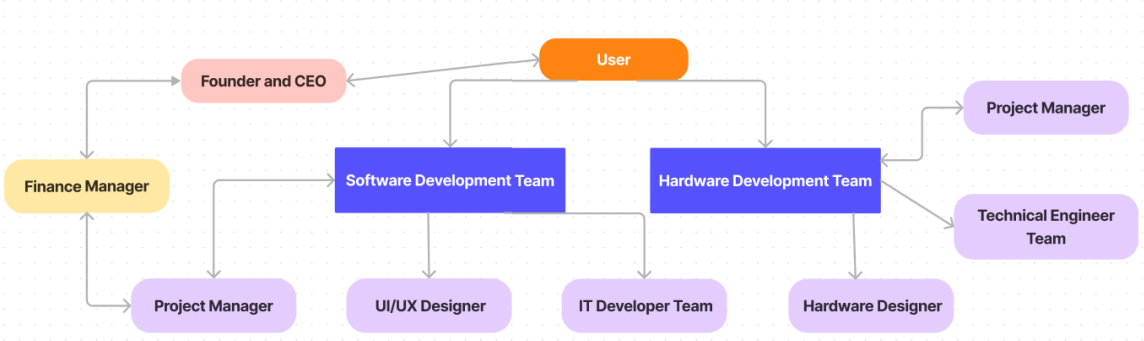


Fig. 1.5.1 Organization Chart

CHAPTER 2
OVERVIEW OF DIFFERENT PROCESS BEING CARRIED OUT IN COMPANY

2.1 WORK BEING CARRIED OUT IN EACH DEPARTMENT

- **Project Manager**

  The project manager department is responsible for overseeing all projects and ensuring they are delivered on time, within budget, and to the client's satisfaction. Some of the key responsibilities of the project manager department include project planning, budgeting, resource allocation, risk management, and client communication**.**

  Frontend

  - **Html**
  - **CSS**
  - **JavaScript**

  Database

  - **SQL Server**

- **IT Developer Department**

  The IT developer department is responsible for developing software applications and solutions for clients. The department includes programmers, software engineers, and other IT professionals who specialize in various programming languages, such as Node.js, Python, scripting languages like PHP and Database like MongoDB and MySQL. The IT developer department works closely with the project manager department to ensure that software development projects are delivered on time and meet client requirements.

2.2 Prepare schematic layout which shows the sequence of operation formanufacturing of end products

- The production is carried out in following steps

1. Planning
2. Analysis
3. Design
4. Implementation
5. Testing and Integration
6. Maintenance

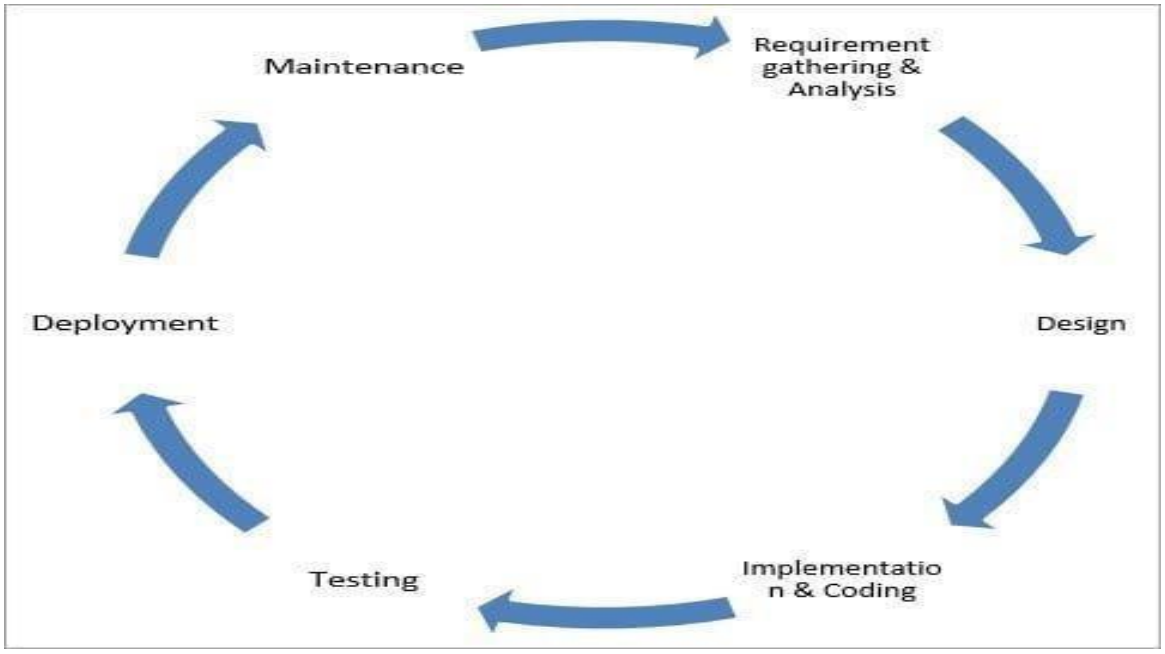


Figure 2.2.1 SDLC

2.3 Explain in details about each stage of production.

1) **Requirement Gathering and Analysis**

We have collected all the information regarding the project. Once requirement gathering is done, an analysis is done to check the feasibility of the development of a product. Once the requirement is clearly understood, the SRS (Software RequirementSpecification) document is created.

2) **Design**

In this phase, the requirement gathered in the SRS document is used as an inputand software architecture that is used for implementing system development is derived using HTML, CSS, JavaScript.

3) **Design**

In this phase, the requirement gathered in the SRS document is used as an inputand software architecture that is used for implementing system development is derived using HTML, CSS, JavaScript.

4) **Implementing or Coding**

Implementation/Coding started according to the requirement. The Software design is translated into source code. All the components of the software are implemented in this phase. Python, Odoo is used for implementation.

5) **Implementing or Coding**

Implementation/Coding started according to the requirement. The Software design is translated into source code. All the components of the software are implemented in this phase. Python, Odoo is used for implementation.

6) Testing

Testing starts once the coding is complete and the modules are released for testing. In this phase, the developed software is tested thoroughly and any defects foundare assigned back to get them fixed. Testers refer SRS document to make sure that the software is as per the clients standard.

7) Testing

Testing starts once the coding is complete and the modules are released for testing. In this phase, the developed software is tested thoroughly and any defects foundare assigned back to get them fixed. Testers refer SRS document to make sure that the software is as per the clients standard.

8) Testing

Testing starts once the coding is complete and the modules are released for testing. In this phase, the developed software is tested thoroughly and any defects foundare assigned back to get them fixed. Testers refer SRS document to make sure that the software is as per the clients standard.

9) Deployment

Once the product is tested, it is deployed in the production environment or first UAT (User Acceptance testing) is done depending on the customer expectation.

10) Testing

Testing starts once the coding is complete and the modules are released for testing. In this phase, the developed software is tested thoroughly and any defects foundare assigned back to get them fixed. Testers refer SRS document to make sure that the software is as per the clients standard.

11) Deployment

Once the product is tested, it is deployed in the production environment or first UAT (User Acceptance testing) is done depending on the customer expectation.

12) Maintenance

After the deployment of a product on the production environment, maintenanceof the product i.e., if any issue comes up and needs to be fixed or any enhancement is to be done is taken care by the developers

CHAPTER 3
INTRODUCTION OF PROJECT

3.1 Project Summary

A web-based application called the Laravel Hospital tracking System was created to make it easier to handle hospital operations like appointment scheduling, medical history monitoring, and doctor management. An admin dashboard, user management, doctor management, appointment scheduling, medical history management, and email notifications are merely a few of the system's elements.

The hospital administrator may manage the system by adding doctors, scheduling appointments, and accessing user information thanks to the admin dashboard, which gives them a thorough overview of the entire system. Patients can register and log in to the system using the user management module in order to manage their appointments, check their medical records, and communicate with clinicians. The admin can add and manage doctors, their availability, and their specialties using the doctor management module.

The appointment scheduling module enables patients to schedule appointments with doctors and receive email notifications confirming their appointment details. The medical history management module allows patients to view their medical history, including past appointments, diagnoses, and medications. The email notifications module sends email notifications to patients to confirm appointments, remind them of upcoming appointments, and notify them of any changes.

Overall, the Laravel Hospital Management System improves the efficiency of hospital operations and enhances patient experience by providing a user-friendly platform for managing appointments and medical history.

3.2 Purpose

The Hospital Management System is to improve the efficiency of healthcare services and enhance patient experience by providing a user-friendly and centralized platform for managing appointments, medical history, and doctor information. The system aims to optimize hospital operations and resource allocation by providing a comprehensive view of the hospital's operations and patient information.

3.3 Objective

- Simplify hospital operations by centralizing patient information and appointment scheduling.
- Enhance patient experience by providing a user-friendly platform for managing appointments, medical history, and doctor information.
- Optimize hospital operations and resource allocation by providing a comprehensive view of the hospital's operations and patient information.
- Improve the accuracy of diagnoses and treatments by reducing the risk of errors and improving the accuracy of patient information.
- Streamline communication between patients and doctors by providing a platform for direct communication and timely notifications.
- Provide hospitals with data-driven insights to enhance patient outcomes and resource allocation.

3.4 Scope

- Admin Dashboard: A comprehensive view of the system that allows the administrator to manage the system by adding doctors, managing appointments, and accessing user information.
- User Management: A platform for patients to register and log in to the system to manage
- their appointments, view their medical history, and communicate with doctors
- Doctor Management: A module for the admin to add and manage doctors, their schedules, and their specialties.

- Appointment Scheduling: A platform for patients to schedule appointments with doctors and receive email notifications confirming their appointment details.
- Medical History Management: A platform for patients to view their medical history, including past appointments, diagnoses, and medications.

Some Features:-

- Admissions
- Registration
- Add doctors
- CRUD operation
- Appointment booking

3.5 Technology and Literature Review

3.5.1 Literature Review

The development of hospital management systems has been a focus of research in recent years due to the increasing demand for efficient and effective healthcare services. A variety of hospital management systems have been developed, with different features and functionalities.

The literature suggests that hospital management systems are essential for improving healthcare services, enhancing patient experience, and optimizing hospital operations. The literature emphasizes the importance of user-centered design, system integration, and data security, and highlights the need for hospital management systems to be scalable, customizable, and developed using appropriate technologies.

3.5.2 Technology

The back end used is PHP, Laravel and MySQL. Moreover, I used Html ,CSS, Bootstrap And JavaScript for front- end. All details I describe in ensuring passage.

1 PHP

- PHP is a server-side scripting language that is commonly used in web development. It can be used to develop the back end of an EMS, including the logic and functionality of the system. PHP is easy to learn and has a large community, which makes it a popular choice for web development.

3.5.2.1 PHP

2 LARAVEL

- Laravel is a modern, open-source PHP web application framework known for its simplicity, elegance, and powerful features. It provides a robust development environment for building scalable, secure, and efficient web applications.

3.5.2.2 LARAVEL

3 HTML & CSS

- HTML is a markup language used to create the structure of web pages in an HSM. It is used to create headings, paragraphs, tables, and other components that make up the user interface of the system.
- CSS is used to define the visual appearance of web pages in an HMS. It is used to define the layout, colors, fonts, and other visual elements of the system.

3.5.2.3 CSS & HTML

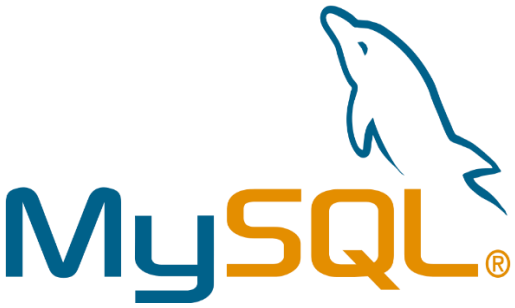
4 JAVASCRIPT

- JavaScript is a programming language used to add interactivity and functionality to web pages in an HMS. It is used to create dynamic forms, perform calculations, and handle user input.

3.5.2.4 JavaScript

5 MYSQL

- MySQL is a popular open-source relational database management system that can be used to store and manage employee data in an EMS. It is known for its scalability, reliability, and ease of use. MySQL is widely used in web development and is compatible with most web servers.



3.5.2.5 MySQL

3.6 Hardware And Software Requirements

3.6.1 Hardware Requirements

Hardware Component	Minimum Requirements
Processer	Intel Core i5 or equivalent
RAM	8 GB
Storage	256 GB

3.6.1 hardware requirements

3.6.2 Software Requirements

Software Component	Minimum Requirements
Operating System	Window 10+, macOS and Linux
Web Server	Apache or Nginx
PHP Runtime	PHP 7.5 above
IDE	Visual Studio Code, Sublime Text, or PHPStorm
Browser	Chrome, Safari and Firefox
Database	MYSQL 5.3 above

3.6.2 software requirements

3.7 Project Scheduling (Gantt Chart)

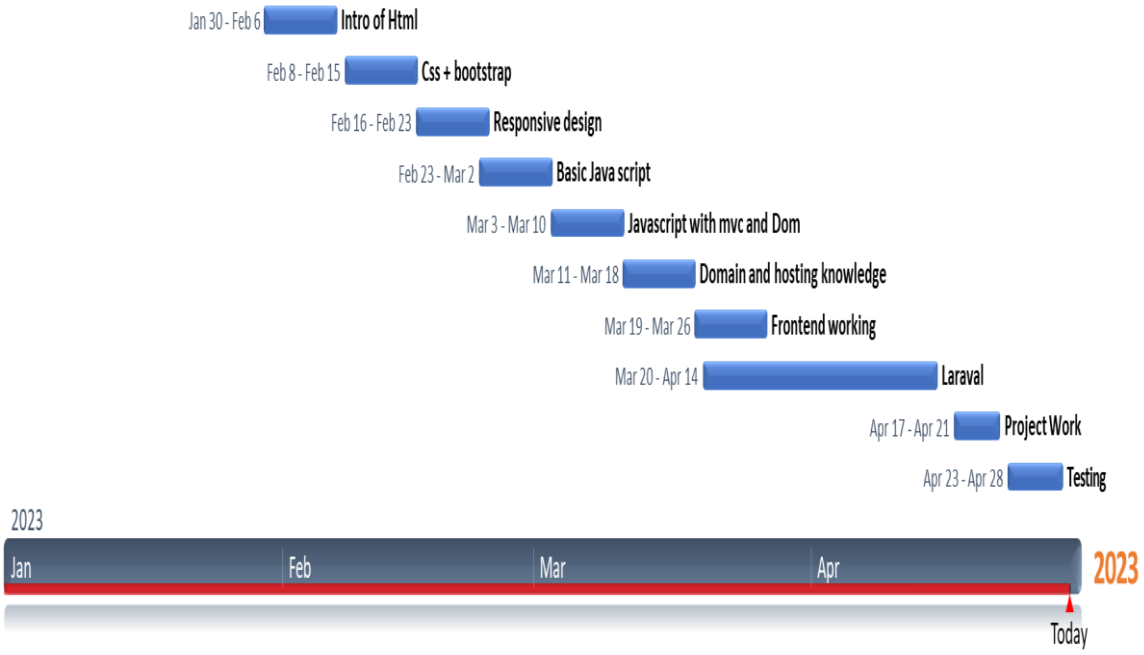


Fig 3.7.1 Gantt Chart

CHAPTER 4
SYSTEM ANALYSIS

4.1 Study Of Current System

- You can also consider conducting a survey or interviewing stakeholders such as doctors, patients, and administrators to understand their current workflows and pain points. This will help you to better understand the requirements and features that are needed for your Laravel hospital management system.

- you may also want to research any regulations or guidelines that govern the use of hospital management systems, such as HIPAA regulations in the United States, to ensure that your system is compliant with these standards.

4.2 Problem and Weakness of Current System

- Lack of integration: Hospital management systems are often siloed, with different departments using different software systems that do not communicate with each other. This can lead to data inconsistencies and workflow inefficiencies.
- Limited functionality: Some systems may lack certain key features that hospitals need to manage their operations effectively, such as patient appointment scheduling, electronic medical records (EMR), or billing.
- Security and privacy concerns: Hospital management systems often contain sensitive patient information, so security and privacy must be a top priority. Some systems may be vulnerable to hacking or other cyber threats.

4.3 Requirements of New System

- Patient management: The system should allow healthcare providers to manage patient information, including medical history, appointment scheduling, and billing

- EMR/EHR: The system should include an electronic medical record (EMR) or electronic health record (EHR) system that allows healthcare providers to access patient information quickly and easily.
- Appointment scheduling: The system should allow patients to schedule appointments with healthcare providers online, and should include features like automatic reminders and the ability to reschedule or cancel appointments.

4.4 System Feasibility

- Technical feasibility involves analyzing whether the project can be implemented using the available technology and resources. Some key considerations in this area include the availability of skilled developers, the compatibility of the technology stack with the hospital's existing IT infrastructure, and the scalability of the system to handle large volumes of patient data.
- Economic feasibility involves analyzing the financial viability of the project. This includes estimating the total cost of development, implementation, and maintenance of the system, as well as assessing the potential return on investment (ROI) for the hospital.
- Operational feasibility involves analyzing whether the system will be easy to use and maintain, and whether it will be accepted by the hospital staff and patients. This includes conducting user testing and obtaining feedback from stakeholders to ensure that the system meets their needs and is user-friendly.
- By analyzing these factors, you can determine whether your Laravel hospital management system project is feasible and whether it is likely to be successful in meeting the needs of the hospital and its patients.

4.5 Activity/Process In New System

- Administrator and User both can login and use this system.
- Admin add doctors and remove doctors based on their performance.
- Patient login and then they appointment booked in their login page.
- Only those user show appointment options who login.
- User cancel their appointment and admin send mail regarding user appointment requirement.

4.6 System Activity

4.6.1 Use Case Diagram

A use case diagram shows the relationship among actors and use cases within a system. Hence it provides the characteristics of the actors whose behavior and relationships can be well understood using the diagrams elaborated here.

An end-user can perform various tasks on the application. Here the rectangle indicates system boundary, out of which there are actors found who perform various operations on the system which are the end-user and the system. An elliptical shape shows theuse-case while the connecting links between an actor and a use case communicates.

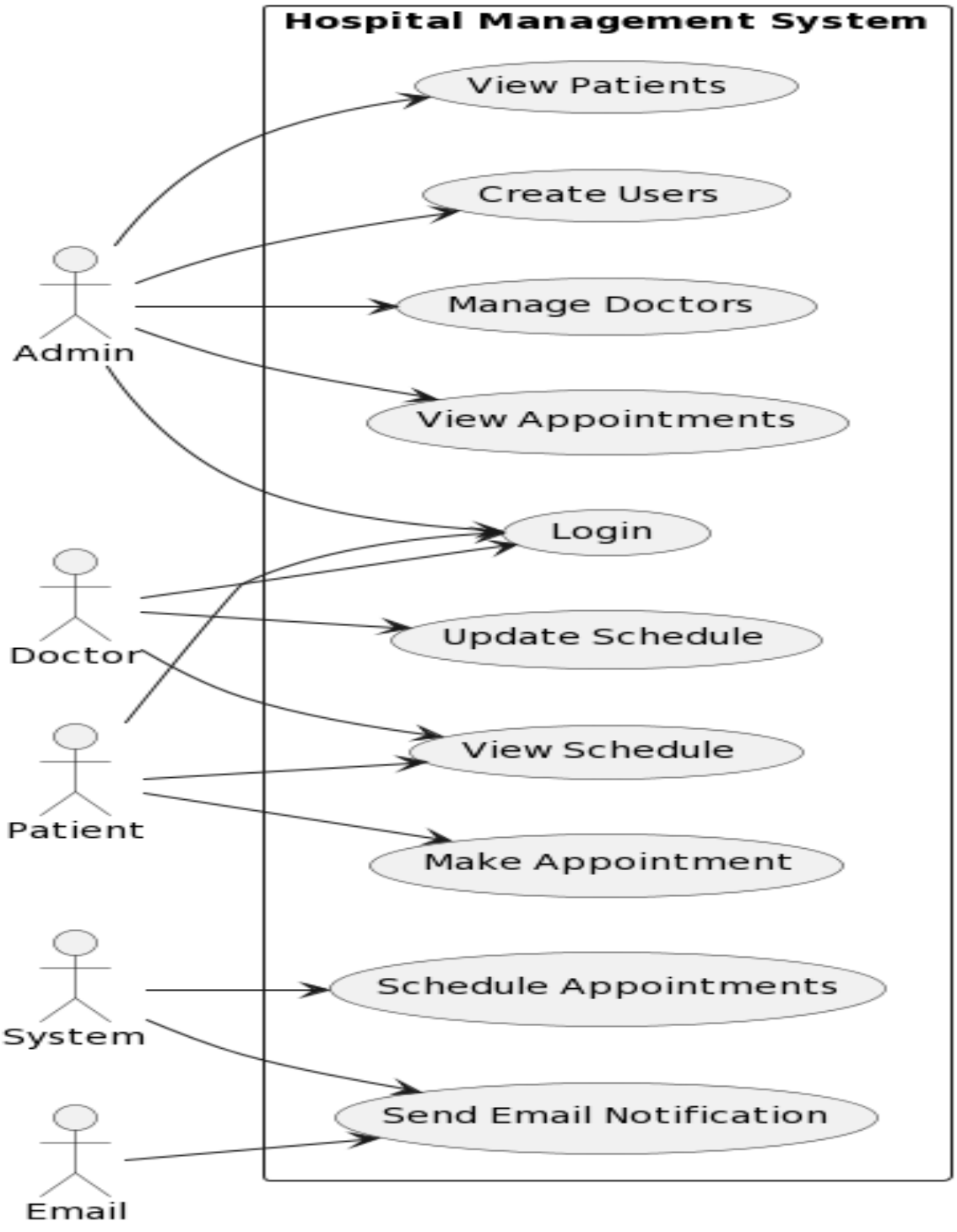


Figure 4.6.1 Use Case Diagram

4.6.2 Activity Diagram

1.Admin

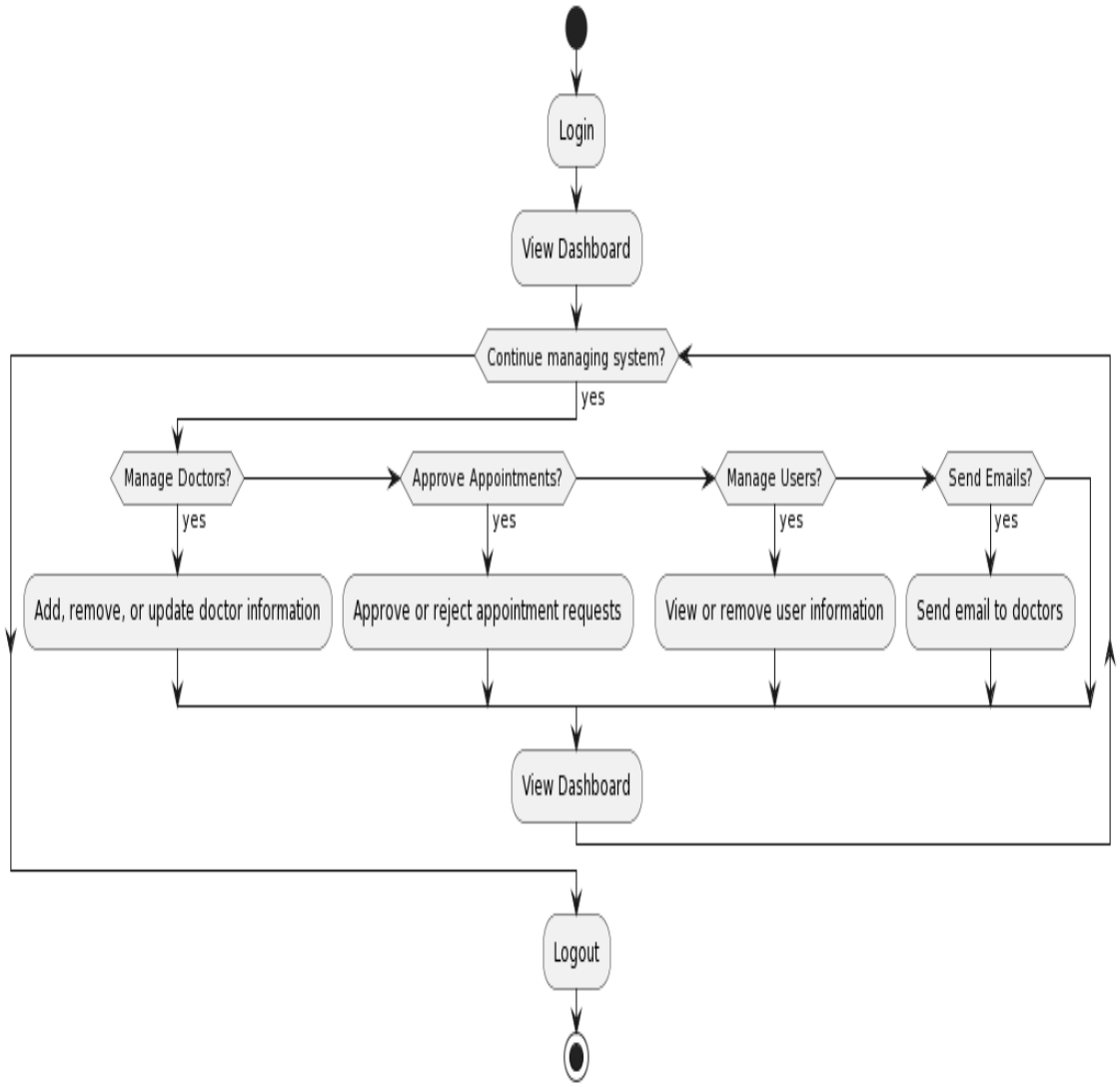


Figure 4.6.2.1 Admin Activity Diagram

2 User

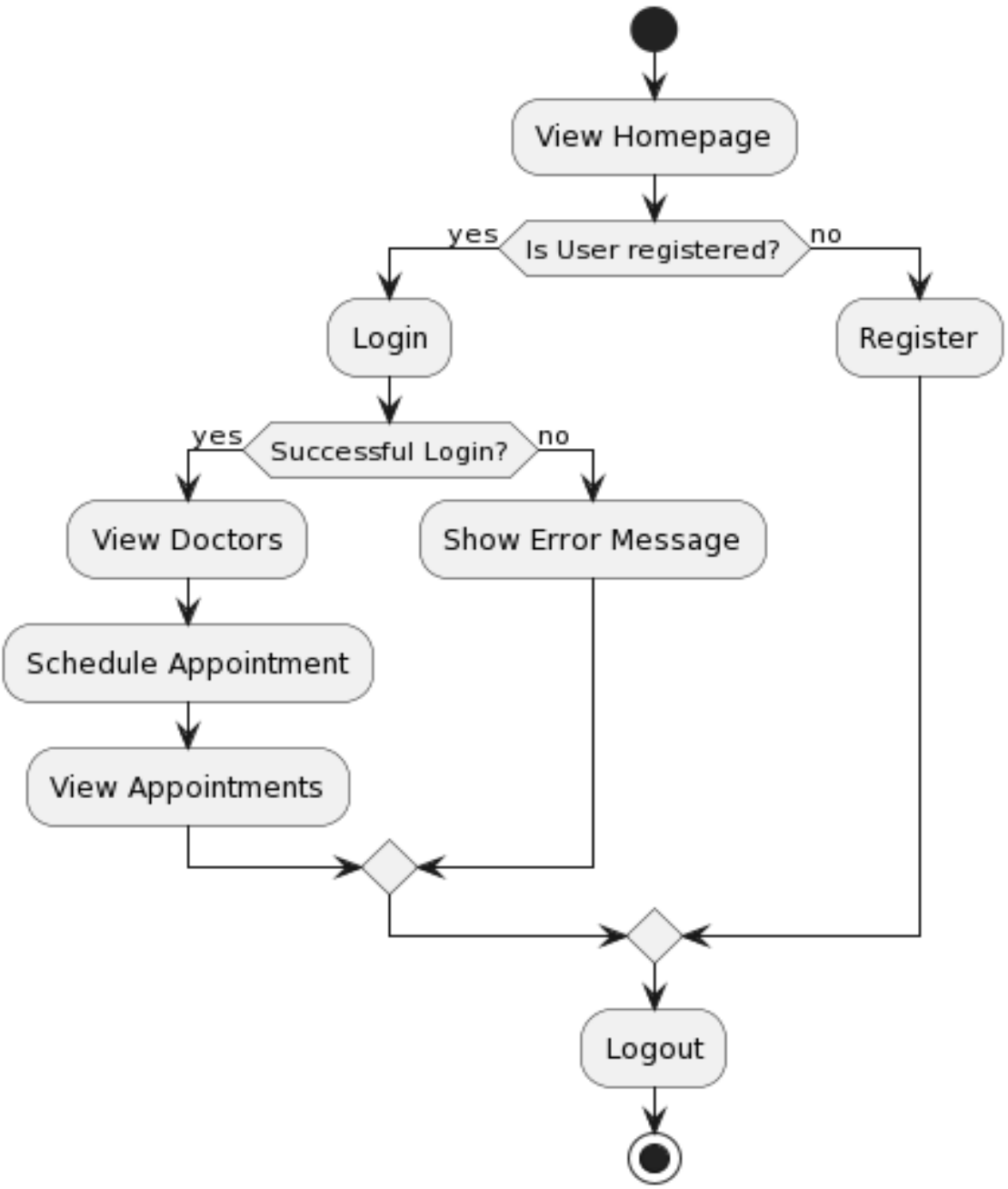


Figure 4.6.2.2 User Activity Diagram

3 Doctors

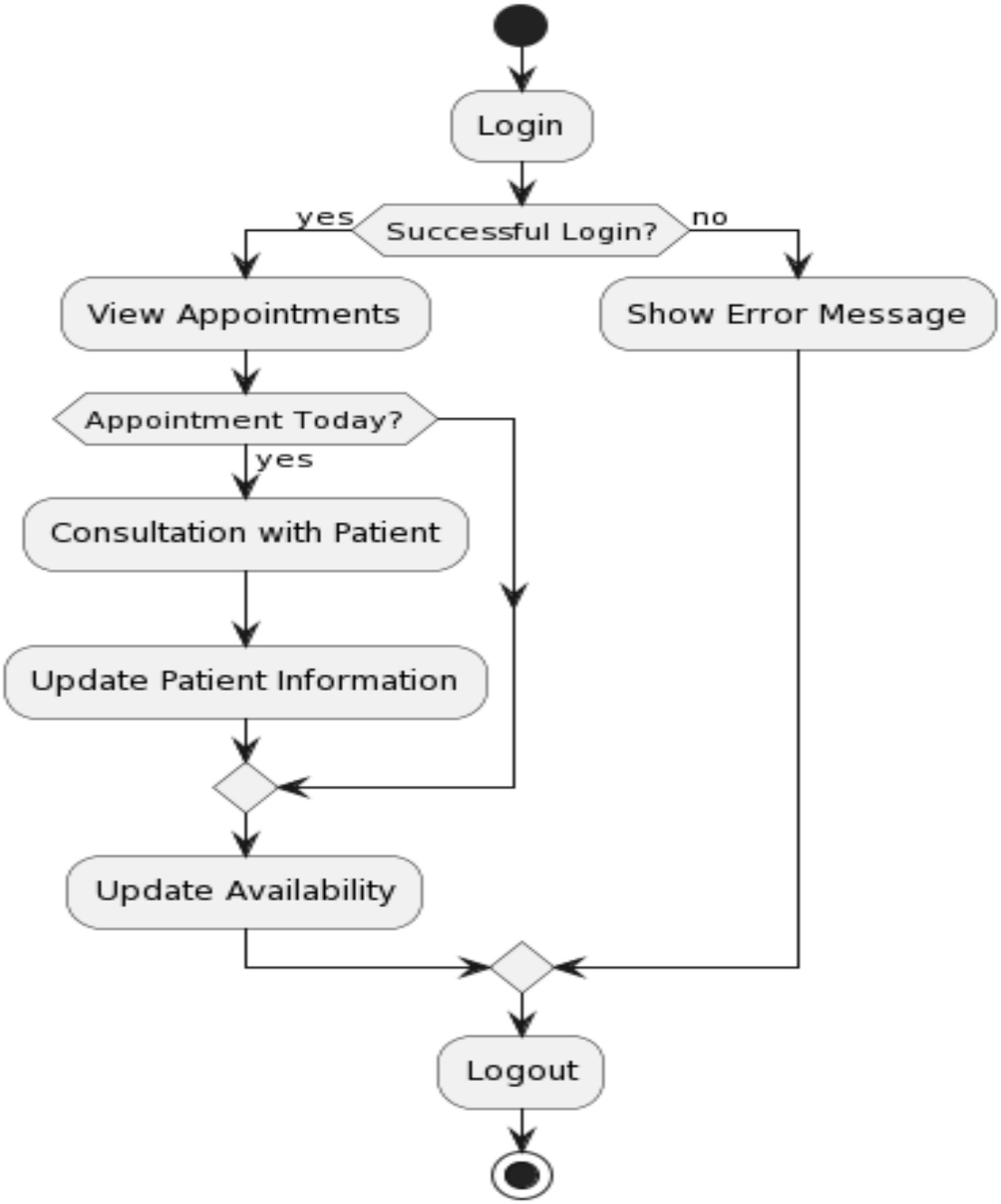


Figure 4.6.2.3 doctor Activity Diagram

CHAPTER 5
SYSTEM DESIGN

5.1 System Design & Methodology

Systems design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. The System Design Description report provides summary or detailed information about a system design represented by a model. Systems design is therefore the process of defining and developing systems to satisfy specified requirements of the user.

5.2 Data Dictionary

The hospital management system includes several tables for storing patient information, doctor information, appointment details, and other related data. The following tables provide an overview of the data dictionary for the system:

1.User

Field Name	Data Type	Description
Id	Char	Id
Name	Char	Patient name
Email	Char	Email id
Phone	Integer	Phone number
Address	Char	Address
User type	Integer	user

Table 5.2.1 user

2.Appointments

Field Name	Datatype	Description
Id	Char	Primary key
Name	Char	User of doctors
Email	Char	User email
Phone	Integer	User phone
Doctors	Char	Name of doctors
Date	Integer	Booking date
Message	Char	Text
Status	Char	Appointment status (Pending, Confirmed, Cancelled)

Table 5.2.2 Appointments

3.Doctors

Field Name	Datatype	Name
Id	Char	Doctor id
Name	Char	Doctor name
Phone	Integer	Doctor number
Specialty	Char	Doctor specialty
Room	Int	Doctor room no
Image	Image	Image of doctor

Table 5.2.3 Doctor

5.3 System Procedure Design

5.3.1 Flowchart

1.Admin

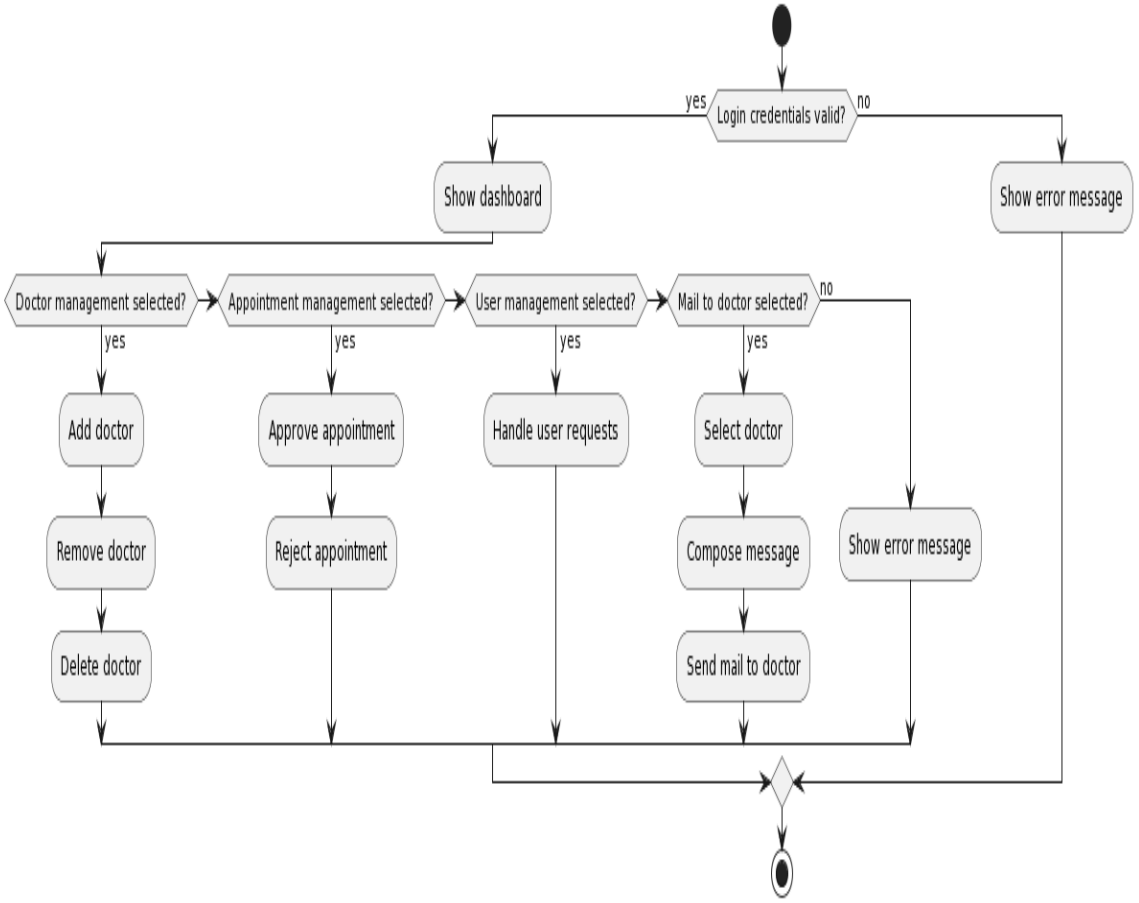


Figure 5.3.1.1 Flowchart (Admin)

2.User

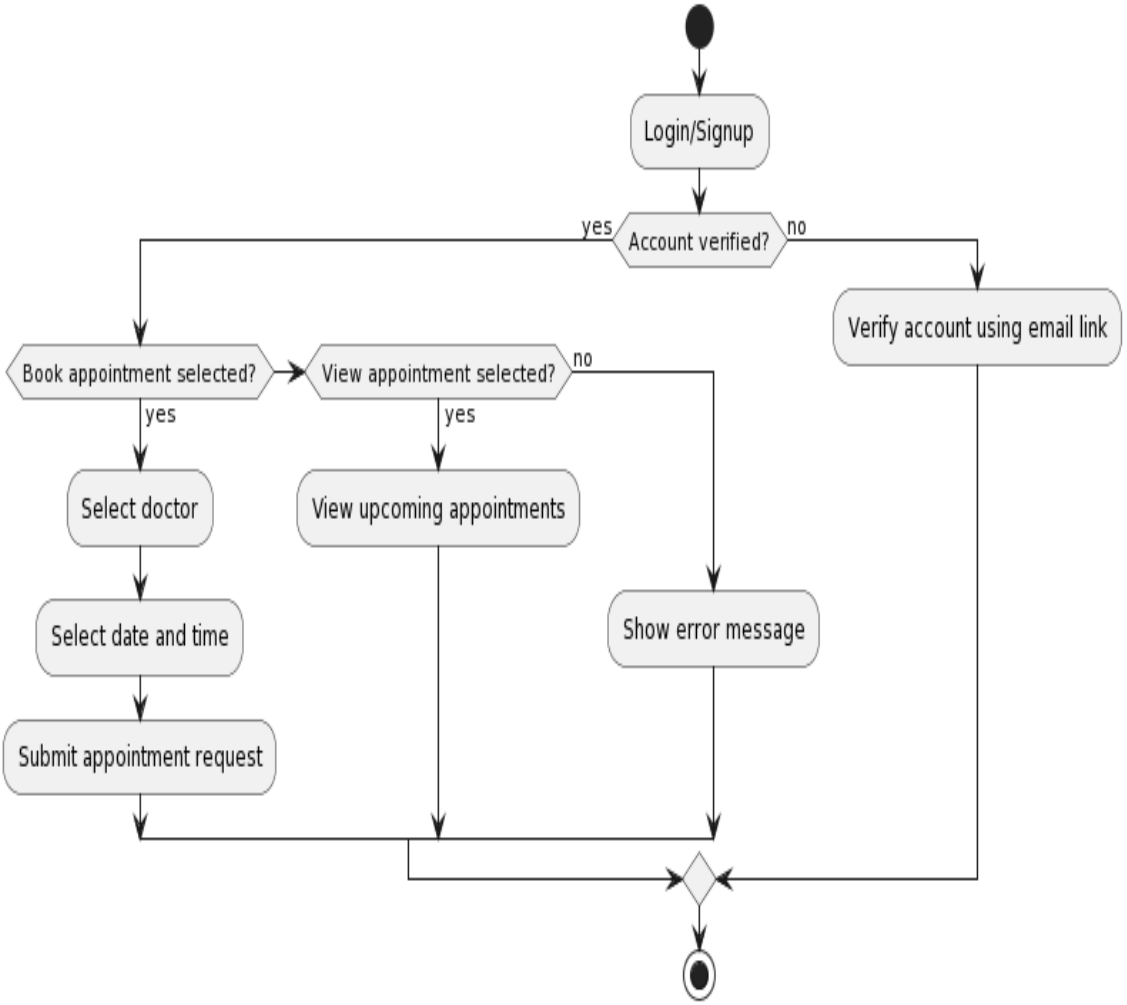


Figure 5.3.1.2 Flowchart (User)

3.Doctors

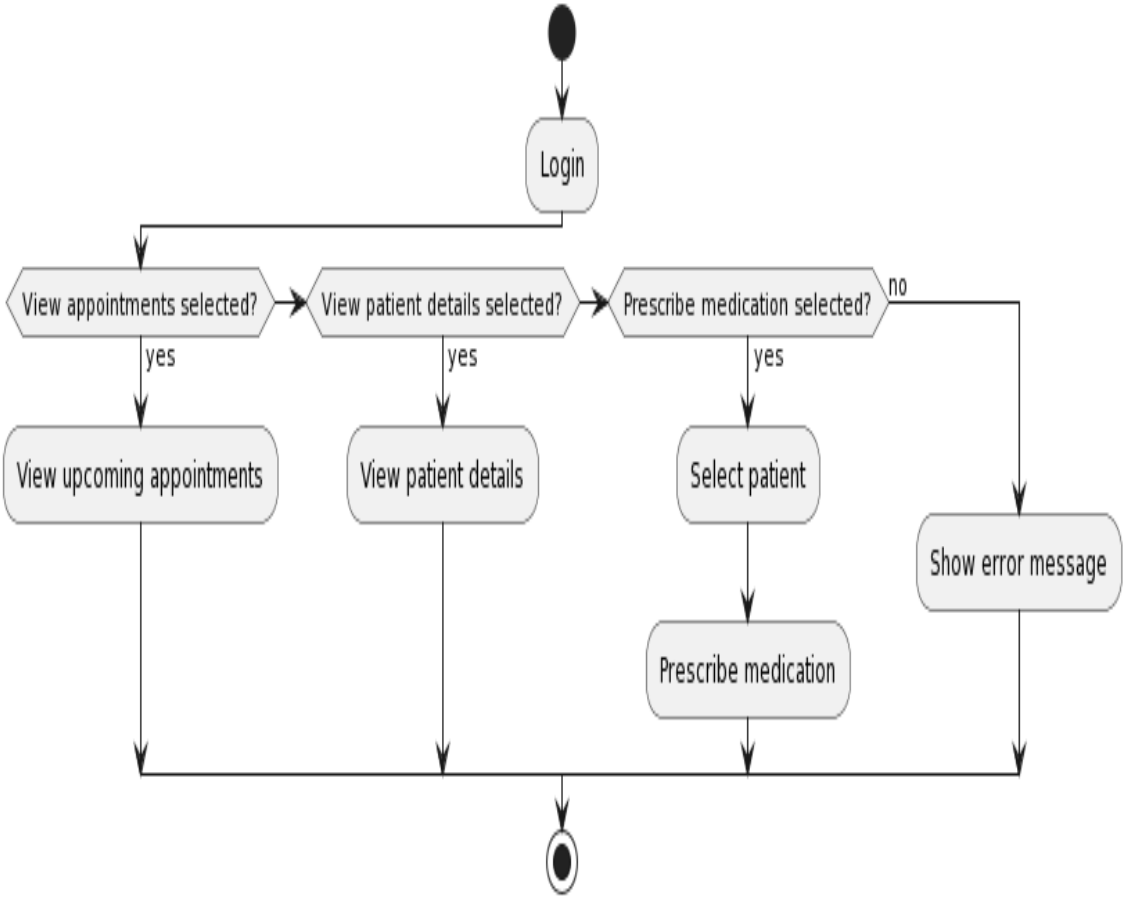


Figure 5.3.1.3 Flowchart (doctors)

CHAPTER 6
IMPLEMENTATION

6.1 Technology Specification

6.1.1 User Authentication

- Identification and authentication are used to establish a user's identity.
- Each user is required to log in to the system
- First user register and admin approve and then user login

6.1.2 Password

- Every user who is to be allowed to access the portal is given his own username and password and given his own access rights so that only authorized and authenticated users can access the project.
- User not remember password so user forget it.

6.1.3 Confidentiality

- We provide confidentiality to all the users.
- In that one user cannot access the data of the other users.

6.2 Outcomes

1.Login

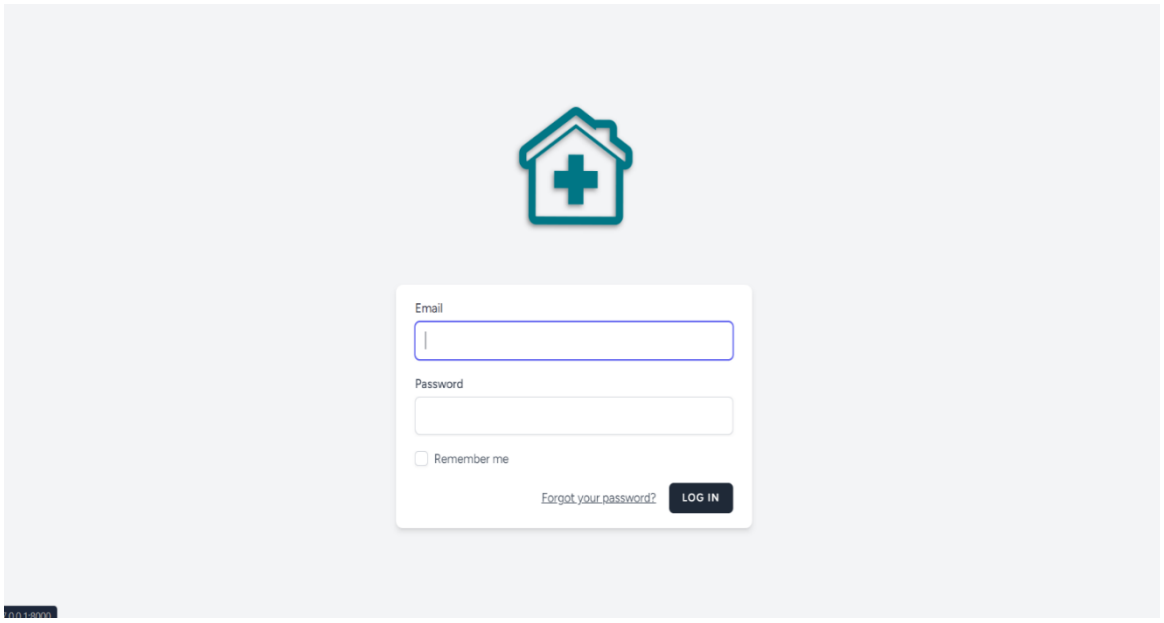


Figure 6.2.1 Login

2.Home page

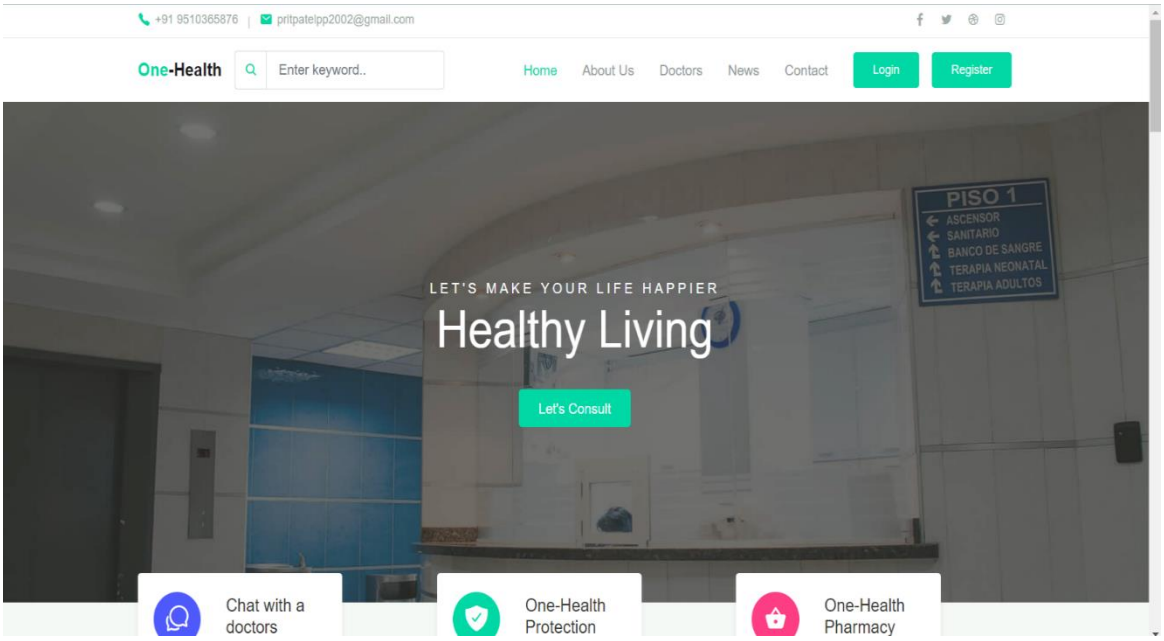


Figure 6.2.2 home page

3.Home page: doctors

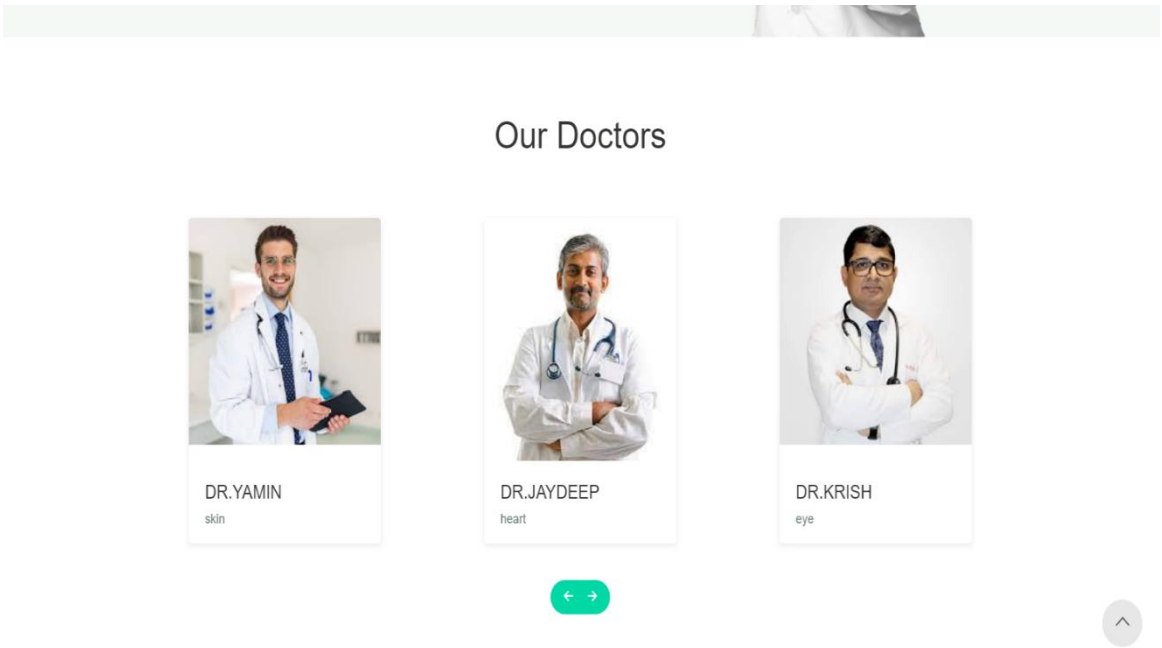


Figure 6.2.3 doctors

4.Home page: appointment

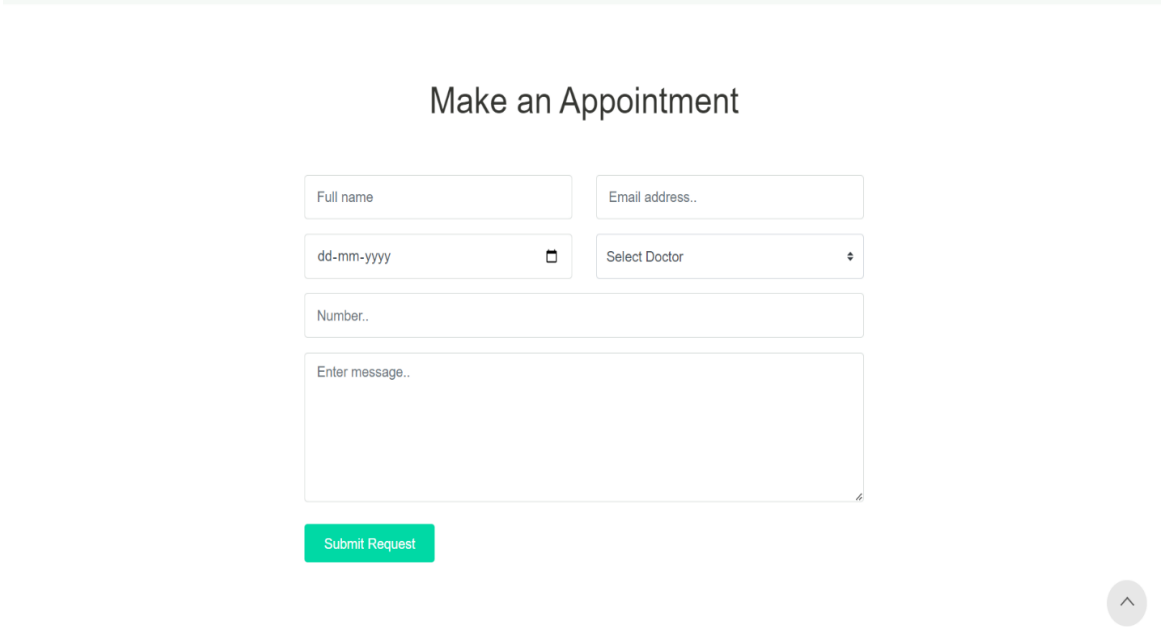


Figure 6.2.4 appointment patients

5.Admin

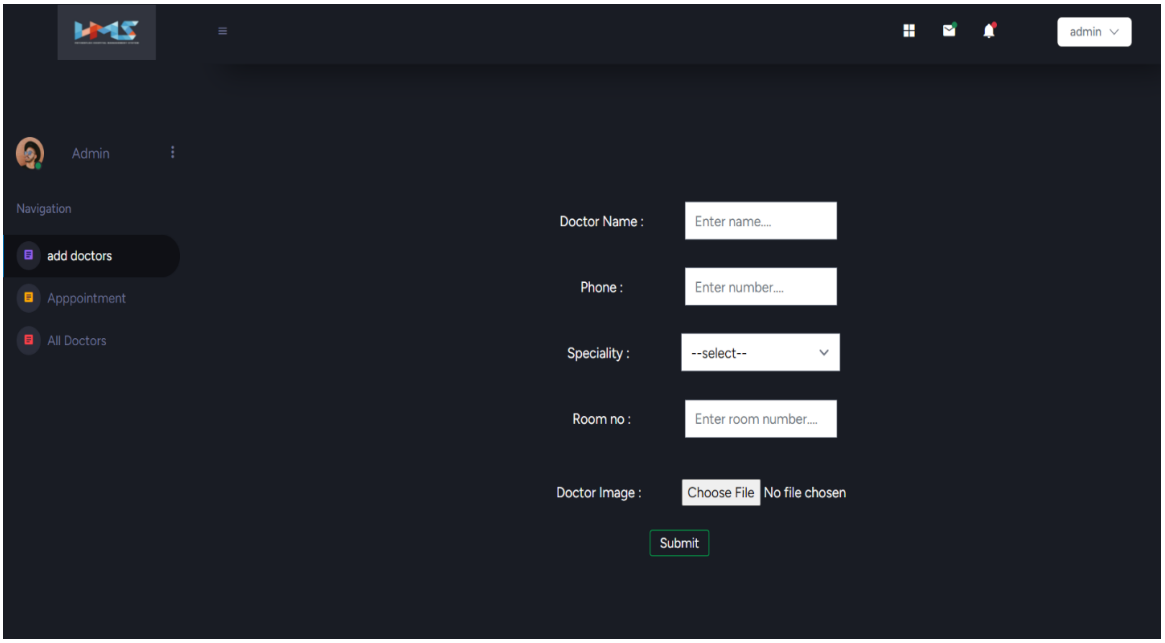


Figure 6.2.5 Admin Details

6.Admin: doctors

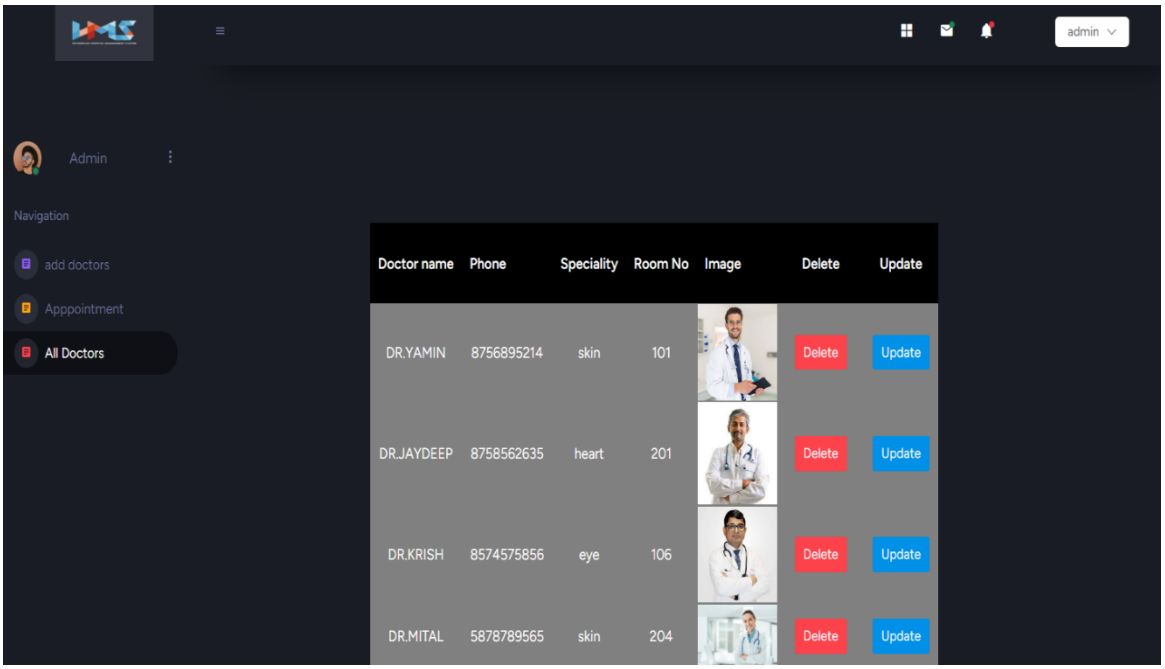


Figure 6.2.6 Doctors Details

7.Admin: appointment

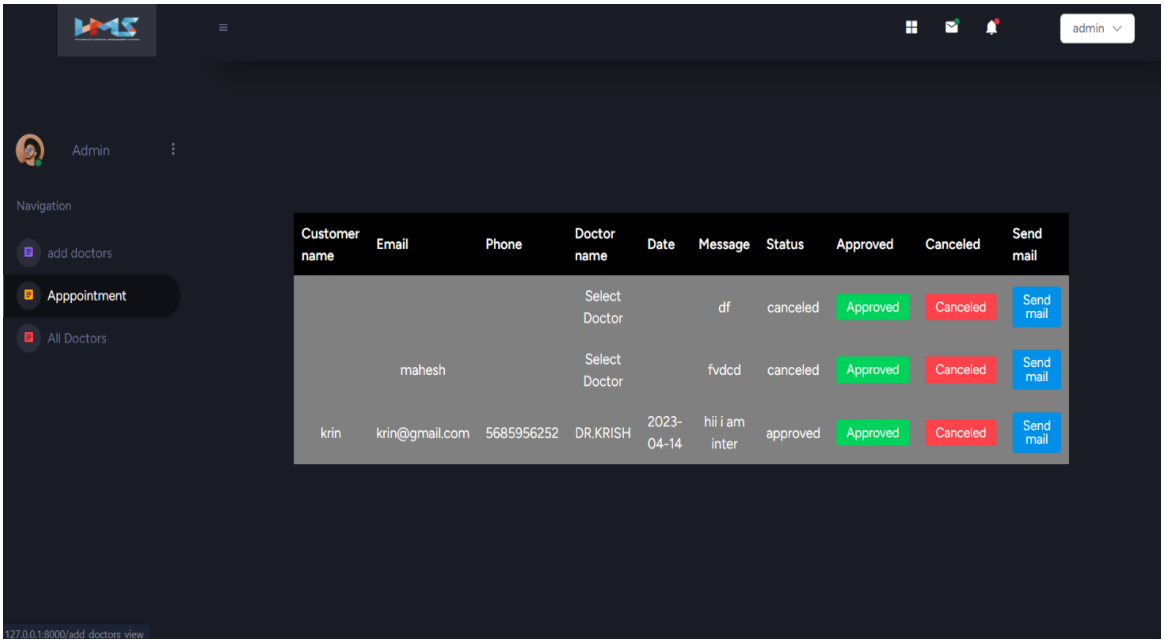


Figure 6.2.7 appointment

8.Admin: profile

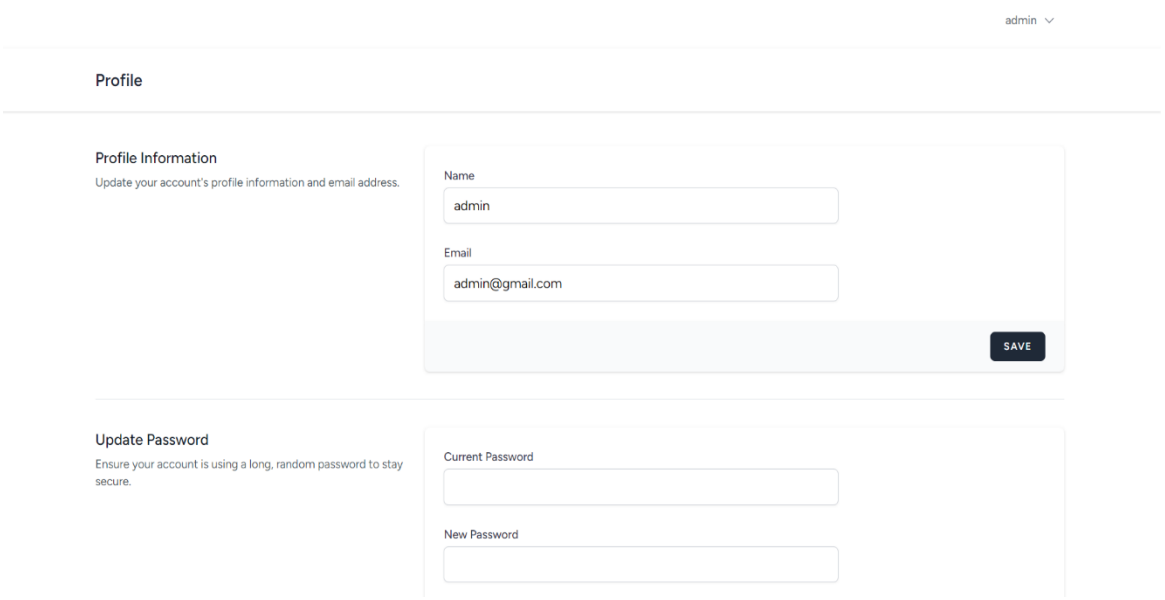


Figure 6.2.8 admin profile

9.Email

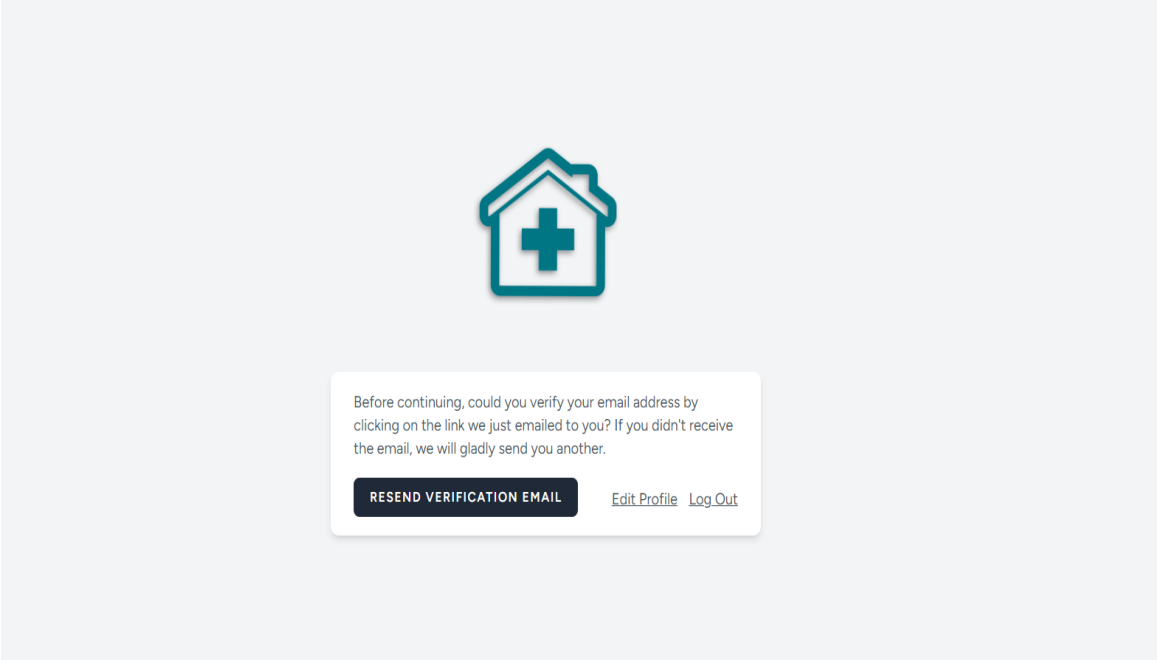


Figure 6.2.9 email verification

CHAPTER 7
TESTING

7.1 Testing Plan/Strategy

A testing plan is a document that outlines the approach and methodology that will be used to test a software application. The plan typically includes the objectives of the testing, the testing approach, the scope of the testing, the roles and responsibilities of the testing team, the test environment, the testing schedule, the test cases, and the expected results.

The testing plan should be developed early in the software development life cycle, and it should be reviewed and updated throughout the development process. The testing plan should be based on the requirements and design specifications of the software, and it should be designed to ensure that the software meets the functional, performance, and usability requirements.

The testing plan should be executed by a team of experienced testers who have the necessary skills and knowledge to perform the testing tasks. The testing team should be responsible for identifying defects and issues, documenting the results of the testing, and communicating the results to the development team.

7.2 Test Result And Analysis

7.2.1 Test cases

Test ID	Test Description	Test steps	Actual Result	Pass/fail
1	User login functionality	1.Enter valid credentials 2.Click on the login button	User should be logged in and redirected to the dashboard page	Pass
2	Appointment scheduling	1. Enter valid patient information. 2. Select the doctor. 3. Select the preferred appointment date and time. 4. Click on the submit button	Appointment is added to the database and scheduled successfully	Pass
3	Doctor update functionality	1. Select the doctor to update. 2. Enter updated information .. 3. Click on the update button	Doctor information is updated and reflected in the database	Pass
4	User registration functionality	1.Enter valid user information. 2.Click on the register button	User is registered and added to the database successfully.	Pass
5	Email notification functionality	1. Schedule an appointment. 2. Verify the email address of the doctor. 3. Check the email inbox for notification	Email notification is sent to the admin with the user details For login.	pass

Table 7.2.1 test case

CHAPTER 8
CONCLUSION AND DISCUSSION

8.1 Overall Analysis of Internship

During the internship first they gave the basic knowledge of our languages and then they gave the project. In project first of all we have to design the Web-Application according to they have given as per the SRS (Software Requirements Specification) And We Have to Create Database in MySQL, we have to do testing of our website. After completing the project, we have upload the project to the GitHub.

8.2 Dates Of Surprise Visit By Institute Mentor

- Mentor: - Prof. Naimishkumar Patel
- Date: - 08/02/2023

8.3 Dates Of Continuous Evaluation (IT-I and IT-II)

- IT-I 25/03/2023
- IT-II 08/04/2023

8.4 Summary Of Internship

During Internship they have assign the project name Hospital Management System. So, the Management System is a platform where the doctors and users Can Communicate. It saves time of patients. Now user can book their appointment from online and they check what doctors are there. After appointment doctor do mail to patient about their appointment. now admin Is handled that all thing.

8.5 Conclusion

The hospital management system developed using Laravel framework has proved to be efficient and effective in managing the hospital's daily operations. The system offers a user-friendly interface that facilitates easy navigation and access to various modules such as doctor's appointments, patient login, and admin panel.

CHAPTER 9

REFERENCES

1. W3school: https://www.w3schools.com/
2. Tutorial points: https://www.tutorialspoint.com/
3. Bootstrap: https://getbootstrap.com/docs/5.0/getting-started/introduction/
4. Stack Overflow: https://stackoverflow.com/
5. MySQL: https://www.mysql.com/
6. YouTube video: https://www.youtube.com/results?search_query=laravel+