

A
Mini Project Report
on
MediMate: Simplifying Healthcare Access
Submitted in partial fulfillment of the requirements for the
degree
Second Year Engineering – Computer Science Engineering (Data Science)
by

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CERTIFICATE

This to certify that the Mini Project report on **MediMate: Simplifying Healthcare Access** has been submitted by Drishti Bhadsavle(23107076), Rushikesh Paskanti (23107032) , Paras Mahajan (23107034) and Arjya Dey(23107062) who are bonafide students of A. P. Shah Institute of Technology, Thane as a partial fulfillment of the requirement for the degree in **Computer Science Engineering (Data Science)**, during the academic year **2024-2025** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction

This chapter lays the foundation of the project by presenting the core concept, objectives, and motivation behind the development of the application. It outlines the problem statement, the need for a technological solution, and the benefits it aims to offer to the target users. This chapter also provides an overview of the system. It sets the stage for the subsequent chapters by establishing a clear understanding of the project's scope and relevance.

Medimate is an innovative desktop-based application designed to enhance healthcare experience for both doctors and patients. It allows patients to book home visit consultations, eliminating travel hassles and ensuring thorough medical check-ups in their comfort. Doctors can efficiently manage patient records, track treatments, and provide personalized care, while patients can access their medical reports, prescriptions, and consultation history. Beyond appointment scheduling, medimate serves as a one-stop healthcare solution, enabling users to order medications, purchase diagnostic devices, and book medical tests directly from the platform. By seamlessly integrating essential healthcare services, medimate enhances patient convenience, improves access to quality medical care, and fosters better doctor-patient communication, ultimately revolutionizing home-based healthcare.

1.1. Purpose:

This project aims to develop a comprehensive desktop-based healthcare application that streamlines medical services by providing a seamless digital platform for both doctors and patients. The system is designed to enhance efficiency in healthcare management, allowing doctors to effortlessly update patient records, medical prescriptions, and personalized comments, ensuring accurate and up-to-date medical history tracking.

For patients, the application offers a user-friendly interface that enables them to conveniently book doctor visits at home, schedule medical tests, order prescribed medicines, and purchase essential diagnostic devices without the need for physical hospital visits. By integrating these functionalities, the system aims to bridge the gap between healthcare providers and patients, making medical services more accessible, time-efficient, and patient-centric.

Additionally, the application prioritizes secure medical data management, ensuring that sensitive patient information, prescriptions, and appointment details are securely stored and easily retrievable when needed. The platform is designed to simplify healthcare access, enhance doctor-patient communication, and provide a structured approach to medical service delivery, ultimately contributing to a more organized, efficient, and technology-driven healthcare ecosystem.

1.2. Problem Statement:

Access to timely and consistent healthcare remains a significant challenge for severely ill individuals, particularly those with mobility limitations or chronic conditions. Many patients struggle to visit hospitals or clinics for routine check-ups and medical tests, leading to delayed diagnoses, inadequate treatment, and worsening health outcomes. Additionally, the lack of an efficient system to coordinate home visits by doctors further complicates the delivery of essential medical care. There is a need for a streamlined, user-friendly solution that facilitates home-based healthcare services, ensuring that patients receive the necessary medical attention without unwanted stress or logistical challenges. Medimate aims to bridge this gap by providing a desktop-based application that simplifies communication and coordination between patients and healthcare providers, making healthcare more accessible and efficient.

1.3. Objectives:

Being an application that caters specifically to the healthcare industry and is designed with the intent to enhance and streamline the interactions between customers and doctors, medimate sets out to achieve several key objectives. By focusing on bridging the communication gap and simplifying healthcare processes, medimate aims to provide a more efficient, accessible, and user-friendly experience for both patients and medical professionals. The primary objectives we aim to achieve are as follows:

- To eliminate the need for visiting hospitals or clinics for non-critical services.
- To provide easy access to medical services from home.
- To deliver seamless and hassle-free healthcare services tailored to individual needs.

- To create a platform for user to manage appointments, records, prescriptions and doctor's comments efficiently.
- To make healthcare services more accessible, especially for the elderly or individuals with mobility challenges.

1.4. Scope:

This project is envisioned as a comprehensive digital healthcare assistant, integrating multiple functionalities to streamline medical operations. It will focus on simplifying appointment management, enabling doctors and patients to schedule and track visits effortlessly. The inclusion of e-prescriptions will allow physicians to issue prescriptions electronically, enhancing accuracy and convenience. Additionally, the system will support online ordering of medical supplies and medications, reducing delays in treatment and improving patient accessibility. Designed for use across hospitals, clinics, and home healthcare services, the platform aims to boost patient engagement, optimize doctor workflows, and contribute to a more connected and efficient healthcare ecosystem. The system is designed primarily for the healthcare industry, catering to hospitals, clinics, and independent doctors.

- It can be used by doctors, hospitals, and patients ensuring remote medical assistance and digital healthcare management.
- The project can be expanded to support multiple hospitals, diagnostic centres, and pharmacies for a more comprehensive healthcare network.
- The system can be adapted to work with government healthcare schemes, insurance providers, and third-party medical services.
- Enables patients to book check-ups, order medicines, and access online prescriptions without visiting a hospital.

Chapter 2

Proposed System

This chapter presents the detailed blueprint of the solution developed to address the identified problems. It outlines the key functionalities of the application. This chapter focuses on how the proposed solution improves upon existing methods or systems, offering enhanced efficiency, accessibility, and user experience. It explains the rationale behind design choices, highlights the system's features, and describes how it fulfills the needs of its intended users

Medimate is a comprehensive and user-friendly desktop application designed to streamline healthcare accessibility by allowing patients to book doctor appointments, order medicines, and schedule medical tests from the comfort of their homes. Catering especially to elderly and physically disabled individuals who may face challenges in visiting hospitals, the platform bridges the gap between patients and healthcare providers, ensuring timely and convenient medical care. With features like secure user authentication, efficient appointment management, and seamless prescription tracking, medimate enhances the overall efficiency of healthcare services, making medical consultations and essential health services more accessible, organized, and patient centric.

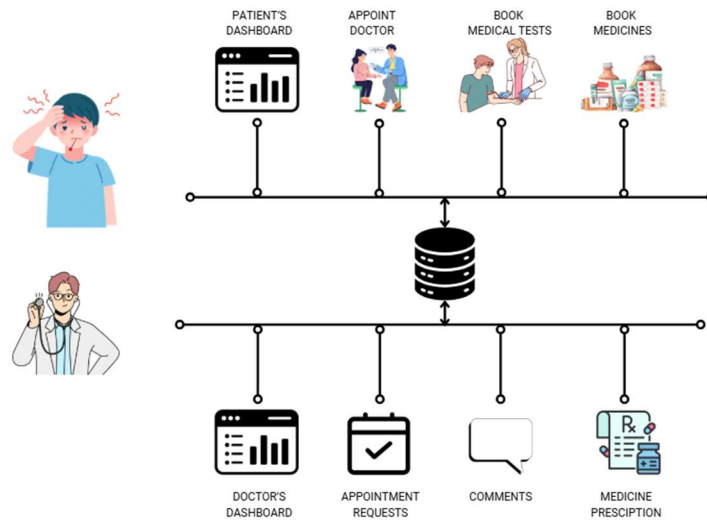


Fig 2.1: Block diagram of the project

Fig 2.1: This block diagram illustrates the overall architecture of the project. The central database acts as the backbone, enabling communication between patients and doctors. On the patient side, users can access their dashboard, appoint doctors, book medical tests, and order medicines. On the doctor's side, functionalities include viewing the dashboard, managing appointment requests, adding comments, and issuing prescriptions. Each module is connected to the database, ensuring real-time updates and seamless interaction. The visual separation between patients and doctors clearly represents the dual-user system and their respective roles.

2.1. Features and Functionality

The medimate application serves as a comprehensive digital healthcare platform, offering a wide range of functionalities aimed at improving experience for both patients and doctors. It enables smooth and efficient communication, simplifies the process of booking and managing appointments, and ensures timely access to medical consultations and services. By bridging the gap between patients and healthcare providers, medimate enhance the overall efficiency of the healthcare system while promoting accessibility, convenience, and organized medical care.

For Patients:

- User Authentication: Patients can sign up and log in securely to access the system.
- Book Appointments: Users can schedule appointments with doctors based on availability.
- Order Medicines: Patients can browse and purchase prescribed medicines.
- Schedule Medical Tests: Users can book laboratory tests at nearby diagnostic centres.
- Upcoming Appointments: Displays a list of scheduled appointments.
- Previous Appointments: Provides a history of past medical consultations.
- Profile Management: Allows users to update their personal and medical details.
- Logout: Securely logs out the user from the application.

For Doctors:

- Login System: Doctors use predefined credentials to access the system.
- Appointment Management: Doctors can approve or reject appointment requests.
- Ongoing Appointments: Lists active patient consultations.
- Prescription and Comments: Allows doctors to provide feedback and prescriptions, which are saved in the user's dashboard.

Chapter 3

Project Outcomes

This chapter highlights the tangible results and benefits achieved through the implementation of the proposed system. It evaluates how well the developed application meets its intended objectives and addresses the problems identified in earlier stages. This chapter focuses on the practical impact of the system, detailing improvements in accessibility, efficiency, user experience, and overall service delivery. It also emphasizes the value added to end-users, patients and healthcare providers by showcasing key features, real-world applicability, and the long-term potential of the platform to transform healthcare services.

The rapid growth of digital healthcare has revolutionized the way medical services are delivered and accessed, making quality care more convenient and efficient. Medimate builds on this transformation by providing a seamless, technology-driven platform that bridges the gap between patients and healthcare providers. Designed to overcome challenges such as mobility issues, long hospital waiting times, and complex scheduling, medimate ensures that patients, especially the elderly and those with physical disabilities receive timely medical attention in the comfort of their homes. By integrating advanced features like appointment booking, prescription tracking, and remote consultations, the application enhances accessibility, streamlines healthcare management, and improves overall patient-provider interaction, ultimately creating a more efficient and patient-centric healthcare experience.

- **Enhanced Accessibility:** The application empowers elderly and physically disabled individuals to access healthcare services from their homes. It eliminates the need for frequent physical hospital visits by allowing users to consult doctors online and order medicines directly through the platform, enhancing comfort and convenience.
- **Time Efficiency:** By streamlining processes like appointment scheduling and medical service bookings, the system significantly reduces the time and effort required for routine check-ups. Users no longer need to wait in long queues or travel to hospitals even for minor health concerns.

- **Structured Appointment Management:** The platform offers a systematic and organized method for scheduling and managing appointments. This helps avoid overcrowding in hospitals and clinics, ensures timely medical attention, and minimizes patient waiting times.
- **Improved Doctor-Patient Communication:** A built-in digital communication channel enables seamless interaction between doctors and patients. Patients can receive prescriptions electronically, ask follow-up questions, and maintain ongoing communication for better healthcare outcomes.
- **Data Security and Management:** Patient records, including medical history, prescriptions, and appointment details, are securely stored using encrypted databases. This ensures data privacy while allowing quick and easy retrieval of information when needed.
- **Scalability:** The system is built with future growth in mind. It can accommodate additional functionalities such as teleconsultations, emergency medical assistance, AI-powered health tracking, and automated prescription renewal features without disrupting existing services.
- **Cost Reduction:** By offering remote consultation services and minimizing unnecessary hospital visits, the platform helps reduce overall healthcare costs. This benefits both patients and healthcare providers by optimizing resources and improving service efficiency.
- **User-Friendly Experience:** Designed with a simple, intuitive interface, the application caters to users of all ages, including those with little or no technical expertise. This ensures that everyone, regardless of their digital literacy, can navigate and use the platform with ease.
- **Reliability and Availability:** The system ensures high uptime and 24/7 availability, allowing users to access essential medical services anytime. This is particularly useful during emergencies or outside regular hospital hours.

Chapter 4

Software Requirements

Software requirements serve as the foundation for successful software development projects. This chapter explores the critical process of gathering, analyzing, documenting, and validating software requirements. By understanding both functional requirements that describe system behaviors and non-functional requirements that address quality attributes such as performance and security, development teams can create software that truly meets user needs while minimizing costly rework and ensuring project success.

To bring the project into existence, a robust combination of frontend and backend technologies was employed, ensuring the platform delivers a seamless, efficient, and user-friendly experience for both doctors and patients. The frontend was developed using python with tkinter and its extensions, offering a responsive desktop-based graphical user interface that caters to users of all ages and technical backgrounds. On the back end, MySQL Workbench was used to create a structured, secure, and scalable database capable of handling critical healthcare data such as appointment schedules, patient records, and prescriptions.

Given below are the details of the key software requirements for the project:

1. Frontend:

- **Python:**

- a) The objective was to create a user-friendly experience for both doctors and patients. To smoothen their experience frontend was developed using python, with tkinter as the primary GUI framework.
- b) Tkinter provides built-in support within Python, making it an efficient choice for developing desktop-based applications.
- c) Multiple python libraries and dependencies were integrated to execute tasks like database connectivity, UI enhancements, data handling, etc.
- d) Some of the libraries which are most widely used in the project were:

- i. **Themed Tkinter Widgets (ttk):** Used to create the GUI for the application. This provides core widgets such as buttons, labels, frames, and text boxes for user interactions.
- ii. **Tkinter Extension for Scrollable Text Fields (scrolled text):** This is used to implement text areas with a scrollbar, allowing doctors to write and review prescriptions easily.
- iii. **Python Standard Library for Date & Time Management (datetime):** Used to display the current date in the application's header. This also helps in managing and tracking patient appointments, ensuring proper scheduling.
- iv. **Dialog Boxes for User Interactions (tkinter.messagebox):** This helps to implement pop-up alerts and confirmation dialogs. This also performs actions like logout confirmation, saving prescriptions, and handling appointment requests.
- v. **Date Selection (tkcalendar):** This extension of tkinter which provides a calendar widget, allowing users to select dates easily. It is particularly beneficial for implementing the appointment booking system, ensuring accurate date selection for consultations and follow-ups.
- vi. **Customization (customtkinter):** This provides modern themes and better customization for buttons, labels, and entry fields.

2. Backend:

- **MySQL Workbench:**

MySQL Workbench is a tool used for database design, development, and management. It provides an intuitive interface for working with MySQL databases, making it easier to design schemas, execute queries, and manage user access.

The goal was to provide a reliable, secure, and well-structured database system that efficiently manages patient records, doctor schedules, and appointment bookings. MySQL Workbench was chosen as the database management tool due to its user-friendly interface, powerful query execution capabilities, and robust data handling features.

The following are the primary reasons for choosing MySQL workbench:

- i. It provides an easy-to-use graphical interface for database design, which facilitates visualizing table relationships.
- ii. Offers real-time query execution and debugging to support efficient management of data.
- iii. Supports data migration, backup, and recovery to minimize data loss.
- iv. It comes with performance tuning capabilities to optimize the time spent on query execution and improve system responsiveness.

To ensure efficient database operations, multiple MySQL Workbench features and functionalities were integrated. The core functionalities implemented in this project include:

1. Relational Database Structure for Data Organization:
 - Normalization technologies were used to eliminate redundancy and increase efficiency within the database.
 - Data relationships in the doctors, patients, appointments and prescriptions tables were defined so that the related data a user would need to retrieve was well-structured and efficient.
2. Dynamic Data Retrieval with Optimized Queries:
 - Complex queries in SQL were written to dynamically discuss relevant information, for example: Retrieve all upcoming appointments for one specific doctor.
 - Provide the patient's medical history when they requested it. Make sure the doctor is available before booking an appointment.
3. Real-Time Appointment Scheduling System:
 - Stored Procedures were designed to efficiently automate checking the available time slots and status change when an appointment was scheduled.

Chapter 5

Project Design

This chapter focuses on outlining the overall system structure, emphasizing the design of both the user interface and backend components. It discusses how a simple, intuitive GUI is developed to ensure ease of use, especially for individuals with varying levels of technical proficiency. The chapter also covers how the backend is structured using a relational database to store and manage critical data securely and efficiently. Additionally, it highlights the system workflow, including user registration, appointment scheduling, prescription management, and error handling, all designed to ensure smooth operation, scalability, and responsive user experience.

The design of Medimate prioritizes a user-friendly and intuitive interface, ensuring accessibility for individuals with diverse levels of technical proficiency. By combining simplicity with efficiency, the platform enables seamless navigation, allowing users to book appointments, manage prescriptions, and access medical records effortlessly. The system architecture is carefully structured to support smooth performance, security, and scalability, integrating key components that facilitate appointment scheduling, data management, authentication, and secure communication between patients and healthcare providers. This well-defined architecture ensures a robust, responsive, and efficient healthcare management system, enhancing the overall user experience and reliability of the platform. The following section outlines the key components of medimate's system architecture.

1. User Interface (Frontend - Tkinter)

- Designed using Python's Tkinter framework to ensure a simple and easy-to-navigate UI.
- Provides interactive forms, buttons, and menus for smooth user interaction.
- Uses clear visual cues to guide users through the appointment booking and prescription management processes.
- Ensures accessibility by offering large fonts, high-contrast themes, and easy navigation for elderly users.

- Implements error handling and input validation to prevent incorrect data entry and improve usability.

2. Database (Backend - MySQL)

- Stores user details, appointment records, medical history, and prescriptions securely.
- Ensures efficient data retrieval and updates through structured queries.
- Maintains separate tables for users, doctors, appointments, and prescriptions for better data organization.
- Implements encryption and authentication protocols to secure sensitive medical data.
- Supports scalability, allowing the addition of more medical records and users as the system expands.

3. System Workflow

- Patient Registration/Login: New users sign up, while registered users log in.
- Dashboard Access: Users navigate the dashboard to book appointments, order medicines, and manage medical records.
- Doctor Interaction: Doctors review appointment requests, approve or reject them, and provide prescriptions.
- Data Processing: The backend processes requests and updates the database accordingly.
- Notification System: Patients receive confirmations for booked appointments and prescriptions.
- Error Handling & Logs: The system maintains logs for errors and activities to help with troubleshooting and system monitoring.
- Multi-User Access: Supports simultaneous access by multiple users, ensuring smooth and uninterrupted service delivery.

The medimate application is structured to ensure efficiency, reliability, and ease of use, making it a valuable tool in the healthcare sector. With a scalable design and user-centric features, the system can grow alongside technological advancements and increasing healthcare demands.

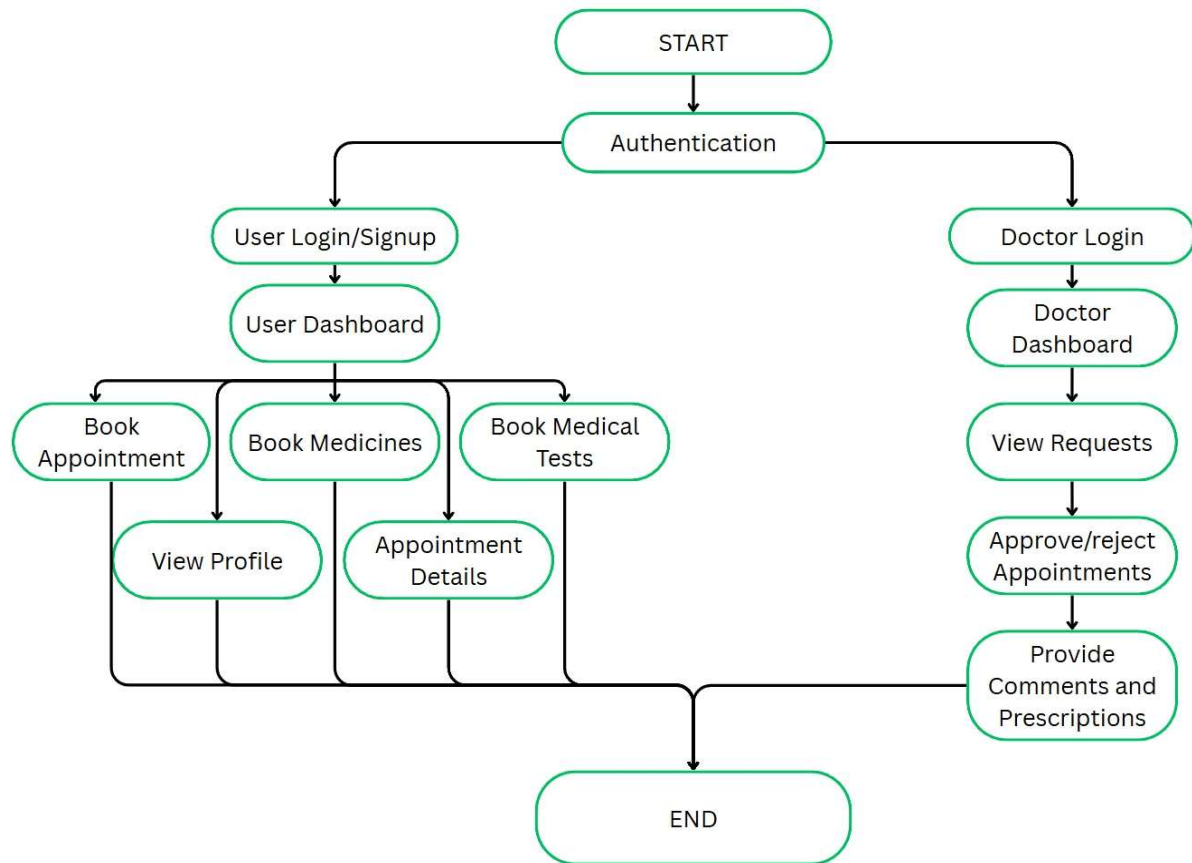


Fig 5.1: Workflow of the project

Fig 5.1: This flowchart outlines the process flow of a hospital management system for both users (patients) and doctors. It begins with authentication, where users can either log in/signup or proceed to the doctor login. Once authenticated, users are directed to the User Dashboard, where they can book appointments, purchase medicines, or book medical tests. Each of these options leads to additional functions such as viewing profiles or appointment details. On the other side, doctors are directed to the Doctor Dashboard, where they can view appointment requests, approve or reject them, and finally provide comments and prescriptions for the approved ones. The system ensures both user and doctor interactions are streamlined and conclude with an end state, signifying the completion of respective tasks.

Chapter 6

Project Scheduling

The Gantt chart provides a comprehensive visual representation of the project timeline, illustrating the sequence, duration, and ownership of tasks across different phases. The chart is divided into two main phases: Project Conception and Initiation and Project Design and Implementation. It spans a period of 14 weeks, starting from 8th January 2025 and ending on 4th April 2025.

Phase 1: Project Conception and Initiation

This phase focused on establishing the foundational aspects of the project and was completed within the first eight weeks.

- Task 1.1: Group Formation and Topic Finalization was completed in Week 1, with all team members involved.
- Task 1.2: Identifying Functionalities of the Mini Project was carried out over Weeks 3–4 and successfully completed.
- Task 1.3: Discussion of the Project with Paper Prototype was conducted in Week 5.
- Task 1.4: Designing the GUI took place in Weeks 5–6, focusing on building an intuitive interface.
- Task 1.5: Presentation I was prepared and delivered in Week 7, summarizing the initial project scope and design.

All tasks in this phase were completed with 100% progress, ensuring the project was well-prepared before entering the implementation stage.

Phase 2: Project Design and Implementation

This phase involved the actual development and integration of system components and spanned Weeks 10 to 14.

- Task 2.1: Database Design was completed in Week 10, led by the designated team member.

- Task 2.2: Database Connectivity for All Modules took place over Weeks 10–11, ensuring a stable backend connection.
- Task 2.3: Integration of Modules and Report Writing was performed during Weeks 11–13, including final touches and documentation.
- Task 2.4: Presentation II was scheduled and prepared in Week 14, marking the final delivery of the project.

All implementation tasks are also marked as 100% complete, signifying successful completion of technical development and reporting.

Smartsheet Tip – details about each task as well as project dependencies.

PROJECT TITLE: MEDIMATE: SIMPLIFYING HEALTHCARE ACCESS

PROJECT GUIDE: Prof. Aishwarya Londhe

INSTITUTE & DEPARTMENT N. AP SHAH INSTITUTE OF TECHNOLOGY (CSE-Data Science)

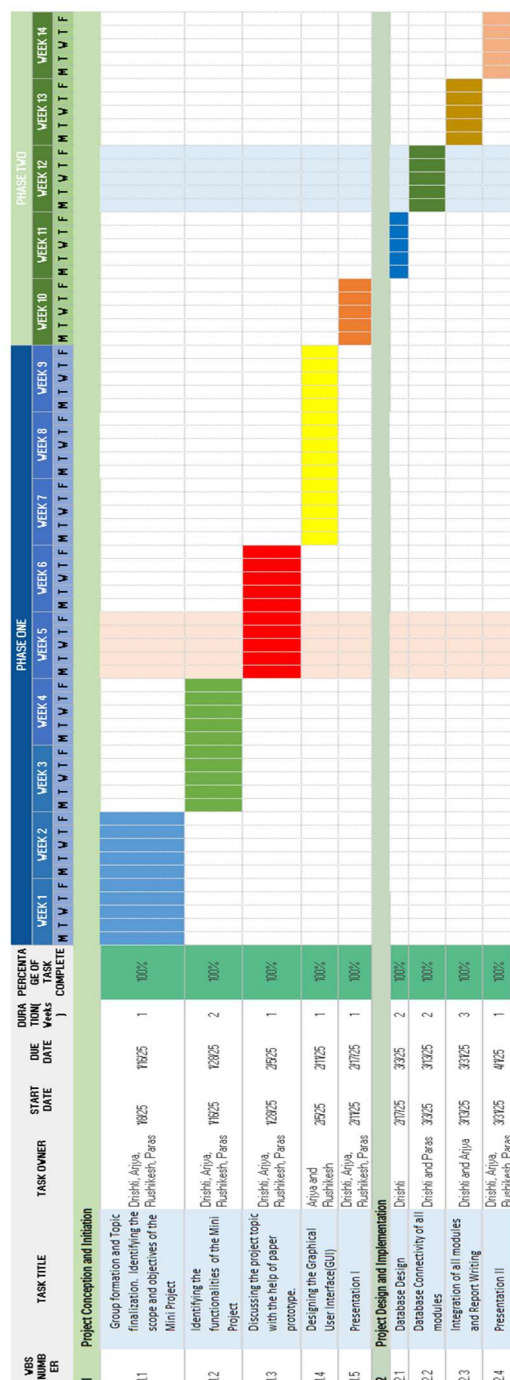


Fig 6.1 Gantt chart

Fig 6.1: The Gantt chart shows a well-organized project timeline divided into two phases. Phase 1 (Weeks 1–8) focused on planning and design, including topic finalization, functionality identification, GUI design, and the first presentation—all completed on time. Phase 2 (Weeks 10–14) involved implementation tasks like database design, module integration, and the final presentation, with each task marked 100% complete, reflecting smooth and timely project execution.

Chapter 7

Results

This chapter provides a detailed account of the practical implementation and performance of the developed system. It highlights how the proposed solution meets the initial objectives and functional requirements outlined in earlier chapters. This section commonly includes visual evidence such as screenshots or interface walkthroughs, showcasing key features and the overall user experience. It also focuses on the effectiveness, efficiency, and usability of the system, offering insights into how well the application performs in real-world scenarios. In this chapter, the results are not only presented through visuals but are also interpreted to demonstrate the success and reliability of the implemented solution.

This chapter showcases the outcomes of the medimate application by presenting its key interface components and functionalities through detailed images, offering a comprehensive view of the user experience and system capabilities. Each section highlights the intuitive interface design, seamless navigation, and core functionalities that enable efficient appointment scheduling and doctor-patient interactions. The visual representations illustrate the application's workflow, from secure user authentication and dashboard navigation to booking consultations and accessing digital prescriptions, demonstrating how medimate simplifies healthcare management. These results validate the successful implementation of the platform, emphasizing its ease of use, efficiency, and reliability in providing seamless, technology-driven healthcare services.



Fig 7.1 Login

Fig 7.1: The login page allows user to make a new account by signing up and allows them to login. Upon clicking the login button, the entered username and password is fetched from the database and if it exists, the login action is performed, otherwise there occurs an error pop-up saying, “Invalid login and password”.




Fig 7.2 Sign Up

Fig 7.2: Allows new user to sign up with their credentials like name, username, phone number, email Id and password. These credentials are inserted into a table in the database. This table is also used to fetch the same credentials during signup as well as displaying the patient's profile in their respective dashboards.

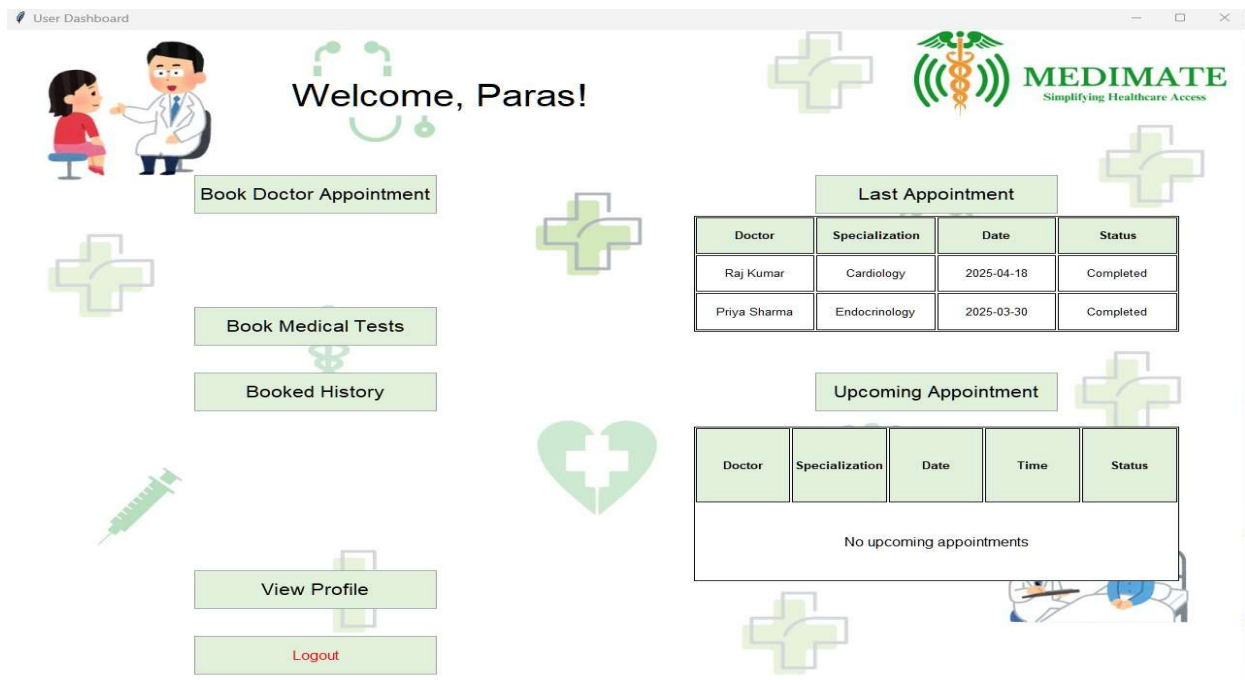


Fig 7.3 Patient Dashboard

Fig 7.3: The figure displays the user dashboard of medimate. The interface greets the user, and provides several essential options including booking doctor appointments, scheduling medical tests, viewing booked history, accessing the user profile, and logging out. On the right side, it shows sections for the last appointment and upcoming appointment. If the doctor rejects the appointment, the patient can see its status as 'rejected' in the upcoming appointment and book a new appointment from another doctor or same doctor with another time. Similarly, the patients will see their upcoming appointments if they are accepted by the doctor.

Profile Information

Username

paras1

Name

paras

Phone Number

9834506943

Email

paras@gmail.com

Date of Birth

2005-04-10

Select Date

Age

19

Address

thane

Previous Medical Records

Doctor's Name

Doctor's Specialization

Appointment Date

Select Date

Prescription

Comments

History

Doctor	Specialization	Date	Prescription	Comments
Raj Kumar	Cardiology	2025-04-03	Crocin	MRI

Delete Selected Record

Back to Dashboard

Update Profile

Add Medical Record

Fig 7.4 Update Patient Profile

Fig 7.4: The update patient profile page allows the patients to update their details if any mistake was made while the registration process. The extra details needed such as date of birth, age and address can be updated here as well. The patients can also add previous medical records with details like the doctor's name and specialization, the appointment date, prescription and the comments received from the doctor for appointments which took place before their registration to medimate.

Doctor Selection

Doctor Selection

Specialization: All

Min. Experience (years): 0

Apply Filters

Name	Specialization	Experience	Availability
Dr. Aisha Patel	Cardiology	15 years	Mon, Wed, Fri
Dr. Raj Kumar	Cardiology	18 years	Mon to Sat
Dr. Priya Sharma	Endocrinology	11 years	Tue, Thu, Sat
Dr. Vikram Desai	Neurology	17 years	Mon, Wed, Fri
Dr. Neha Gupta	Pediatrics	8 years	Mon to Fri
Dr. Suresh Mehta	Orthopedics	20 years	Wed, Thu, Sat
Dr. Ananya Reddy	Dermatology	10 years	Mon, Tue, Fri
Dr. Sanjay Patel	Psychiatry	16 years	Mon, Wed, Fri
Dr. Kavita Verma	Ophthalmology	9 years	Mon to Thu
Dr. Arjun Singh	Pediatrics	22 years	Mon, Wed, Fri

Selected Doctor: None selected

Date:

Select Date

Time:

Book Appointment

Cancel

Fig 7.5 Appointment Booking

Fig 7.5: The doctor selection page is a crucial feature that enables patients to conveniently book appointments with doctors based on their preferences. Patients can view a list of available doctors along with their specializations and choose the one that suits their medical needs. The interface displays the doctors' available slots, allowing patients to select a specific date and time that fits their schedule. This ensures efficient appointment planning without conflicts. This feature enhances the user's experience by providing flexibility, transparency, and ease of access to healthcare professionals.

MEDIMATE - Simplifying Healthcare Access
MEDIMATE
Simplifying Healthcare Access

Medicines & Diagnostics

User: porus

Medicines & Consumables			Tests		Diagnostics		
Item	Select	Quantity	Test	Select	Item	Select	Quantity
Crocin	<input type="checkbox"/>	1	Complete Blood Count (CBC)	<input type="checkbox"/>	Digital Blood Pressure Monitor	<input type="checkbox"/>	1
Ascorill	<input type="checkbox"/>	1	Liver Function Test (LFT)	<input type="checkbox"/>	Pulse Oximeter	<input type="checkbox"/>	1
Candid-B	<input type="checkbox"/>	1	Kidney Function Test (KFT)	<input type="checkbox"/>	Portable ECG/EKG Monitor	<input type="checkbox"/>	1
CLindac AP	<input type="checkbox"/>	1	Lipid Profile	<input type="checkbox"/>	Holter Monitor	<input type="checkbox"/>	1
Penicillin	<input type="checkbox"/>	1	Thyroid Function Test (TFT)	<input type="checkbox"/>	Glucometer	<input type="checkbox"/>	1
Ketorolac	<input type="checkbox"/>	1	HbA1c Test	<input type="checkbox"/>	Continuous Glucose Monitoring Device	<input type="checkbox"/>	1
RabAvert	<input type="checkbox"/>	1	Blood Glucose (Fasting & Random)	<input type="checkbox"/>	Spirometer	<input type="checkbox"/>	1
Gauge	<input type="checkbox"/>	1	Vitamin D & Vitamin B12 Test	<input type="checkbox"/>	Peak Flow Meter	<input type="checkbox"/>	1
Bandages	<input type="checkbox"/>	1	Electrolytes Test	<input type="checkbox"/>	Digital Thermometer	<input type="checkbox"/>	1
Cottons	<input type="checkbox"/>	1	HRCT	<input type="checkbox"/>	Asthma Inhaler	<input type="checkbox"/>	1
Neusporin	<input type="checkbox"/>	1	HIV 1 & 2 Test	<input type="checkbox"/>	HIV Self-Test Kit	<input type="checkbox"/>	1
Paracetamol	<input type="checkbox"/>	1	Hepatitis B & C Test	<input type="checkbox"/>	Hepatitis B & C Home Test	<input type="checkbox"/>	1
Omez	<input type="checkbox"/>	1					
Pain Relievers	<input type="checkbox"/>	1					

Book

Fig 7.6 Medicines, consumables & medical test booking

Fig 7.6: The Medicines and Diagnostics page serves as a comprehensive platform for patients to access essential healthcare products and services. Through this page, users can easily book and order prescribed medicines, consumables like cottons and bandages, as well as diagnostic devices such as glucose monitors or blood pressure machines. Additionally, patients can schedule medical tests including Complete Blood Count (CBC), HRCT, Blood Glucose (Fasting & Random), and other lab diagnostics. The page ensures smooth navigation, categorizing items for quick selection. It aims to simplify healthcare access by bringing both medications and diagnostic services under one unified interface. This feature promotes convenience, especially for elderly or critically ill patients.

MEDIMATE - Booking History
MEDIMATE
Simplifying Healthcare Access

User: Paras Mahajan

Booking ID	Date	Time	Medicines	Tests	Diagnostics	Details
3bd03ad5...	2025-04-02	14:47:01	1 items	1 items	2 items	View

Booking Details - ID: 3bd03ad5-0fa3-11f0-8ded-8686d90a009d

MEDICINES & CONSUMABLES:

- Crocin (Qty: 1)

TESTS:

- HRCT

DIAGNOSTICS:

- Glucometer (Qty: 1)
- Spirometer (Qty: 1)

Back to Dashboard

Fig 7.7 Booking History

Fig 7.7: The Medical Bookings History page provides a detailed summary of all past medical service requests made by the patient. It displays booking entries in a table format, listing key details such as Booking ID, Date, Time, and the number of items under Medicines, Tests, and Diagnostics. The user can click on the view button in the details column to see a breakdown of a specific booking. Below the table, a section expands to show in-depth information like medicine names with quantities, test names, and diagnostic devices. The interface is user-friendly and enhances transparency in personal healthcare tracking. A Back to Dashboard button at the bottom ensures easy navigation.

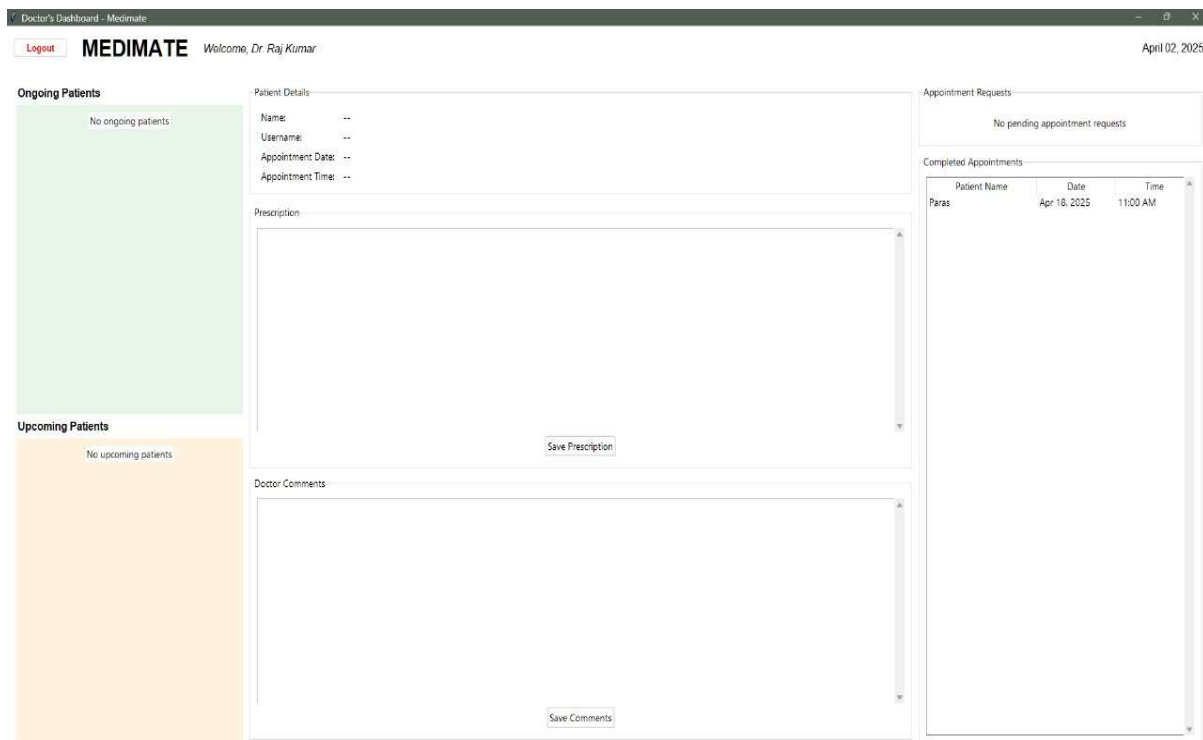


Fig 7.8 Doctor's Dashboard

Fig 7.8: This is the Doctor's Dashboard page. It is designed for managing patient appointments and treatment documentation. It displays sections for ongoing and upcoming patients, which currently show no entries. The right-side lists completed appointments, including patient name, date, and time. The central panel provides patient details and editable fields where the doctor can write prescriptions and comments. There are dedicated buttons to save both prescriptions and remarks after consultation. Appointment requests are also displayed, and the top-right shows the current date and a logout option for the doctor.

Chapter 8

Conclusion

Medimate is a user-friendly application designed to simplify healthcare for both patients and doctors. It enables users to effortlessly track their medical history, book doctor appointments, order medicines online, and schedule medical tests. For doctors, medimate provides a convenient platform to manage patient requests efficiently, streamlining the overall healthcare experience.

Medimate addresses common challenges in accessing medical care by streamlining the entire healthcare process for both patients and doctors. By centralizing appointment scheduling, health record management, and prescription tracking, the application saves time, enhances efficiency, and simplifies healthcare interactions. Patients can conveniently access their medical history and book consultations, while doctors can manage their schedules and patient records seamlessly. The development journey of medimate was both insightful and challenging, requiring dedication to create a solution that enhances accessibility and user experience. Our goal was to make healthcare simple, intuitive, and easily accessible, and with medimate, we believe we have taken a significant step toward achieving that vision.

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