A

Mini Project Report on

Fremedy Plus (Friendly with medicine)

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 **Fremedy Plus** has been submitted by **Kishan Gupta(23107066), Shardul Kadam(23107068)**, **Parth Pawar(23107048)** and **Hemanshu Ingale(23107077)** 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

Fremedy Plus is a user-friendly offline application designed to help users manage their medication schedules effortlessly. With its intuitive interface, users can set custom reminders for each medication, ensuring they never miss a dose. The application supports individuals who require assistance in adhering to their medication routines, providing timely notifications for each scheduled reminder.

Whether managing multiple medications or just needing a little help, Fremedy Plus empowers users to take control of their health by offering a seamless way to keep track of their medication schedule.

1.1 Purpose:

The main purpose of Fremedy Plus is to assist users in managing their companion for individuals who require regular medication, ensuring adherence to their prescribed treatment plans. By consolidating medication schedules into an easy-to-use platform, it helps users maintain their health without the stress of remembering each dose.

1.2 Problem Statement:

- With manual tracking, users often miss doses of their medication, which may lead to health complications. Additionally, keeping track of doctor visits, test results, and pharmacy information can be challenging, especially for users with chronic conditions or complex treatment plans. This application addresses these issues by providing a digital solution that automates medication reminders and stores all healthcare-related information in one place.

- Managing multiple medications can be overwhelming, especially for users who need to take them at different times throughout the day. This can lead to confusion, incorrect dosages, or missed doses. The application helps users by sending timely notifications for each medication, ensuring adherence to their prescribed treatment plans

1.3 Objectives:

1. **To Allow users to input and store details** of their respective doctors, medications, and prescriptions, offering easy access to essential information.
2. **To Allow users to set reminders** for taking their medications at specified times, ensuring they follow their prescribed treatment plan.
3. **To Provide notifications** at designated times for not only medication but also for daily activities such as exercise.
4. **To Allow users to schedule** and manage doctor appointments, helping them stay on top of their healthcare routines.

1.4. Scope:

The scope of Fremedy Plus is to designed to assist a wide range of users who need help managing their medication schedules. It is particularly beneficial for chronic patients who require regular medication for conditions like diabetes, hypertension, or asthma, ensuring they never miss a dose. Elderly individuals who take multiple medications daily can rely on the app's reminders to stay consistent with their treatment. Caregivers can use the app to monitor and manage medication schedules for those they care for, reducing the burden of manual tracking. Additionally, it helps mental health patients by providing timely reminders for their prescribed doses, promoting regularity in their treatment. Overall, Fremedy Plus offers a simple yet effective solution for anyone needing support in managing their medication and health routines.

Chapter 2

Proposed System

The proposed system for Fremedy Plus is a web-based application that automates medication reminders and consolidates critical healthcare information into a single platform. It replaces manual tracking methods with an efficient digital solution, allowing users to manage their medication schedules, doctor details, clinic addresses, test reports, and pharmacy information through a centralized system. Key features include automated reminders for each medication and secure storage of healthcare data. Built using Java and NetBeans, the system is scalable, user-friendly, and designed to reduce the effort required for manual tracking, ensuring improved medication adherence and overall healthcare management.

2.1. Features and Functionalities:

1. **Medicine and Exercise Reminder:** Sends notifications at scheduled times reminding the user to take their medication and to do exercise on time.
2. **Doctor Information Management System:** Allows users to store doctor contact details, clinic addresses, and appointment schedules
3. **Pharmacy and Exercise Information:** Keeps track of nearby pharmacies and stores prescription details and exercise details.
4. **User-Friendly Interface:** Designed to be intuitive, making it easy for users to navigate through their medical schedules..

Chapter 3
Project Outcomes

The Fremedy Plus application delivers several key outcomes that significantly enhance the efficiency of medication management and healthcare organization. By automating medication schedules, the system ensures that users never miss a dose, improving adherence to prescribed treatments. It simplifies healthcare management by centralizing all necessary information, such as doctor details, clinic addresses, test reports, and prescriptions, in one accessible platform. Users benefit from the convenience of easily managing appointments, test results, and pharmacy information, leading to improved overall healthcare coordination. The system's secure data storage ensures the privacy of sensitive information, and its user-friendly design makes it easy to navigate. Additionally, Fremedy Plus is scalable, capable of accommodating the needs of users with complex treatment plans, ensuring a robust and efficient solution for healthcare management.

Chapter 4
Software Requirements

The Payroll system project requires specific software for development and deployment, as follows:

1. **Java Development Kit (JDK version 8.1):** Provides the libraries and tools needed for developing the Java-based frontend of the system.
2. **NetBeans IDE:** Used for writing, testing, and debugging Java code, NetBeans offers an integrated environment to streamline development processes.
3. **MySQL Database Server:** Manages and stores employee and payroll data, handling SQL queries and transactions for backend operations. • **MySQL Workbench:** A graphical tool for database design, management, and maintenance, facilitating schema design and query execution.
4. **Java Runtime Environment (JRE):** Required to run the Java application on user machines, ensuring smooth operation in the production environment.

Chapter 5

Project Design

Project design is planning how a project will work before starting it. It involves figuring out what's needed, setting goals, and deciding how to build it. Key parts include figuring out how the system will be set up, how data will be stored, what the interface will look like, how things will work, how to test it, and how to handle any problems.

The project design of our fremedy plus application as shown below

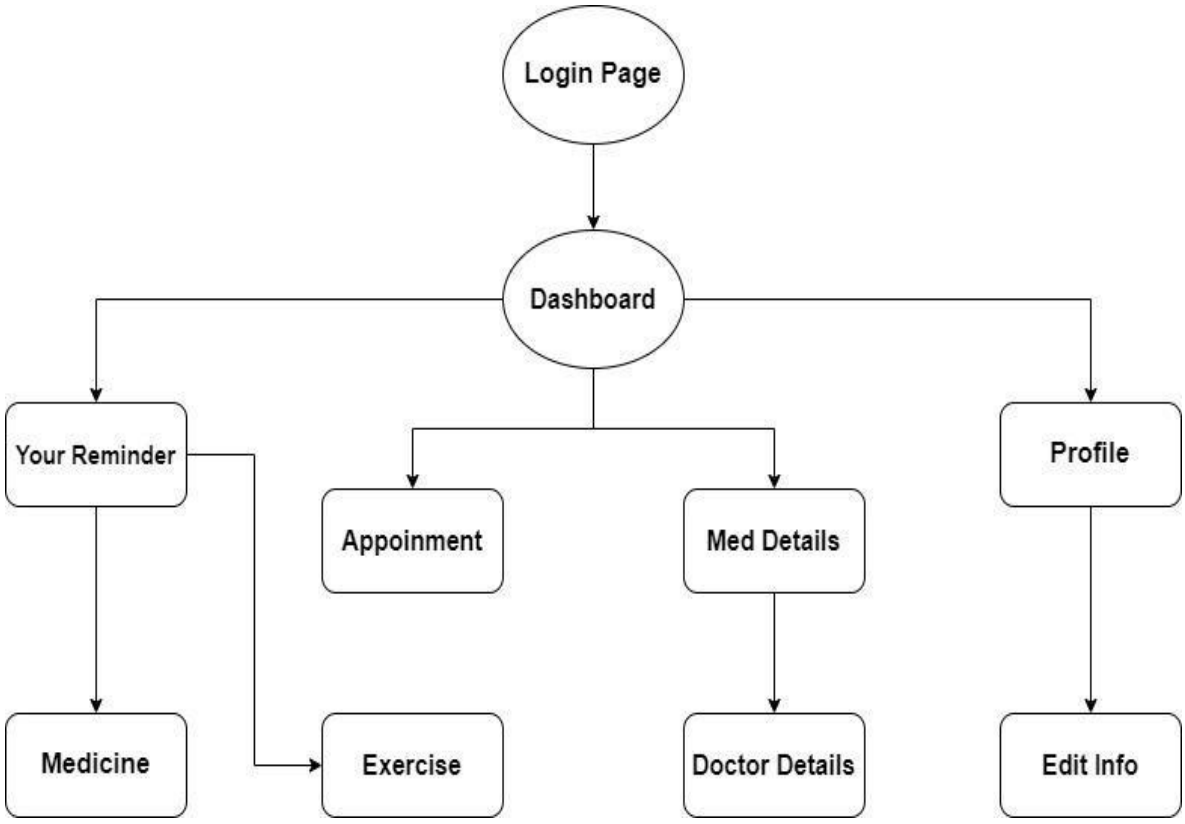

Fig 5.1 Block Diagram

Chapter 6
Project Scheduling

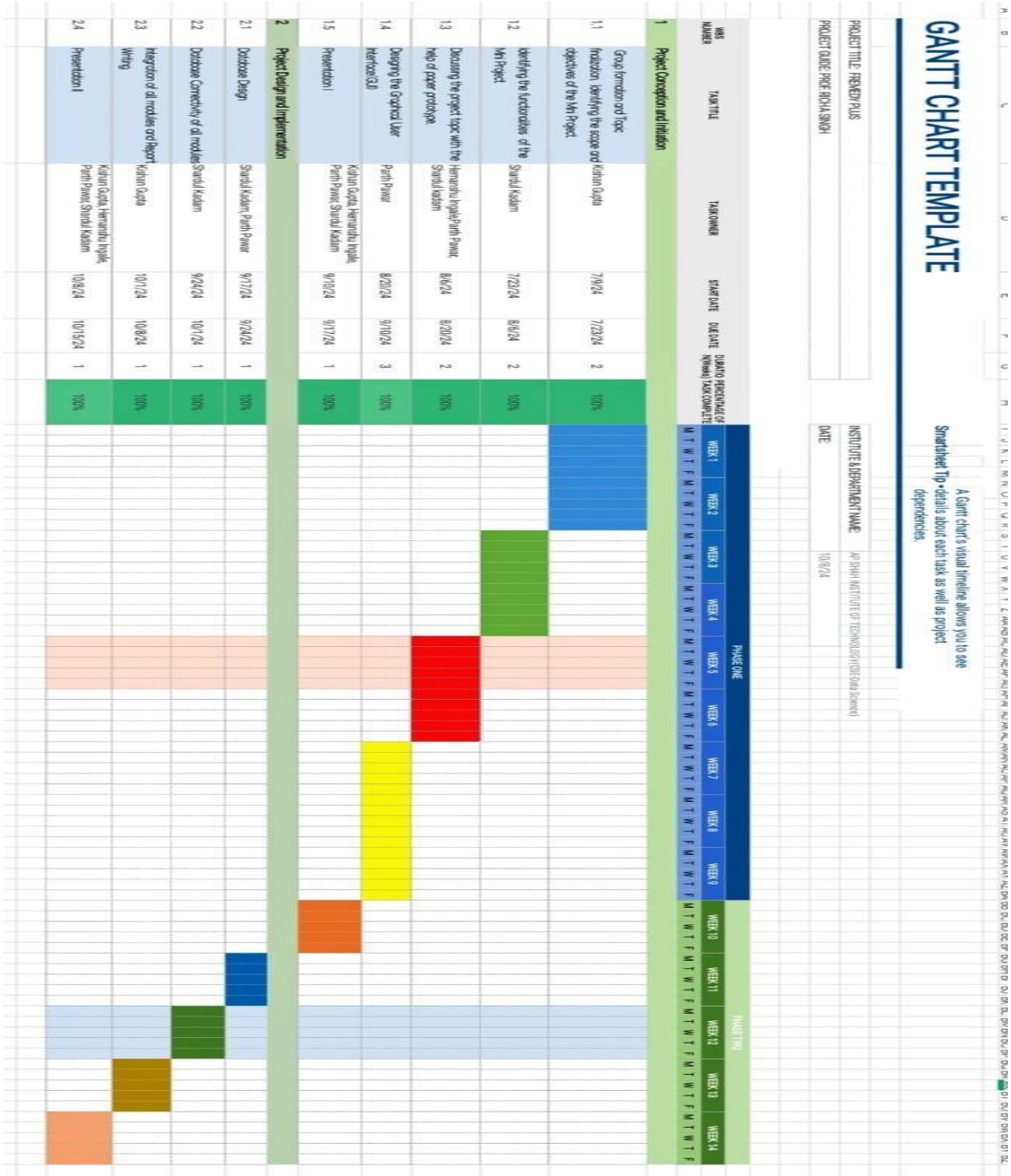

Fig 6.1 Gantt Chart

Chapter 7

Result

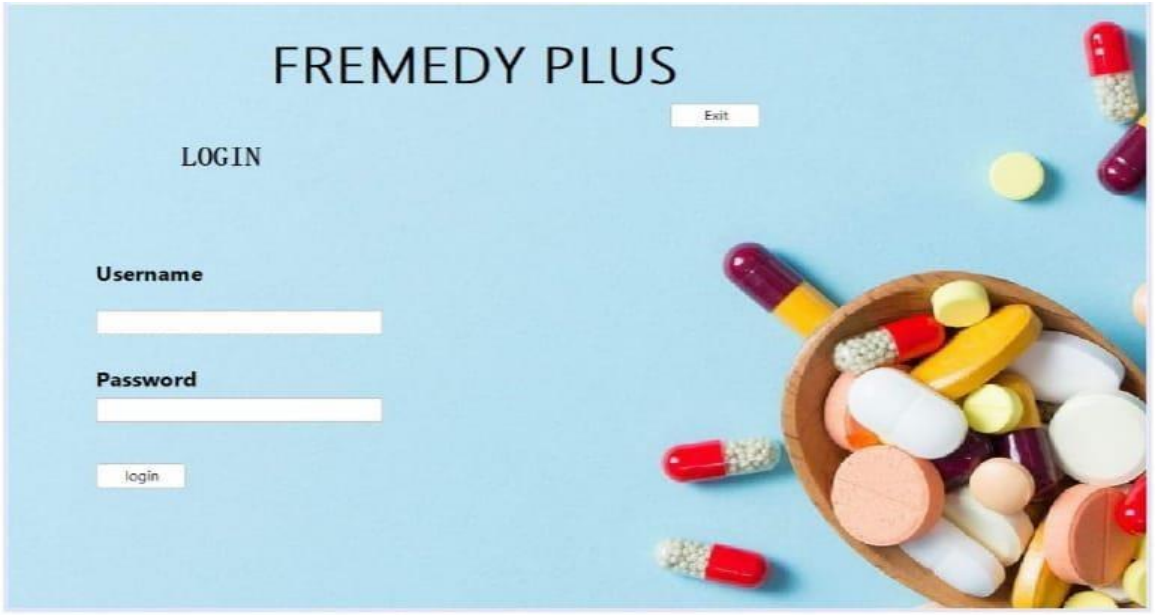

Fig 7.1 Login Page

A secure interface for users to enter their username and password to access the FREDMEDY PLUS app features with exit button.

Fig 7.2 Home Page

The main dashboard offering options for reminders, appointments, medication details, and profile management, allowing users to navigate key healthcare functions.

Fig 7.3 Doctor Details Page

Doctor information page allow users can input and update details such as name, phone number, reason for visit, years of experience, and reviews, with options to add, delete, or modify entries.

Fig 7.4 Exercise Scheduling Page

The exercise screen enables users to add, delete, or update their exercise routines. It allows input for exercise names and scheduled times.

Fig 7.5 Medicine Details Page

This screen allows users to manage their medication by entering the medicine's name, dose, timing (e.g., once a day), and the time of day it should be taken. Users can add, delete, update, or clear medicine entries.

Chapter 8

Conclusion

The Fremedy Plus project demonstrates its success in automating medication reminders and managing healthcare information efficiently. The system streamlines the process of scheduling medication, organizing healthcare details, and storing critical data securely, all in one centralized platform. Built using Java and NetBeans, it enhances user convenience by ensuring timely reminders and easy access to information such as doctor details, clinic addresses and pharmacy contacts. The application supports improved healthcare outcomes by promoting adherence to prescribed treatments. Additionally, Fremedy Plus is scalable and can be expanded with features like appointment booking, healthcare analytics, and more, providing a robust, user-friendly solution that reduces manual effort and supports future enhancements.

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