

REQUIREMENT GATHERING

PROJECT OVERVIEW

The project is a comprehensive Patient Medication Tracker application designed to streamline medication management for patients, caregivers, and healthcare professionals. It encompasses an Admin Module for administrative oversight, user management, medication database maintenance, and communication management. The Patients and Caregivers Mobile Application Modules empower individuals to input medication details, receive timely reminders, and access medication history, enhancing adherence and personalization. The Doctors Web Application aids healthcare professionals in prescription creation and automatic schedule generation, with all components supported by modern technologies like React Native and Firebase, ensuring cross-platform accessibility, real-time data synchronization, and efficient user interactions. Overall, the project aims to revolutionize medication management, fostering improved patient outcomes and communication in healthcare.

TO WHAT EXTENT THE SYSTEM IS PROPOSED FOR ?

The proposed system is designed to comprehensively address medication management and healthcare communication needs, catering to patients, caregivers, doctors, and administrators. It empowers users to efficiently manage medications, receive timely reminders, and communicate with healthcare professionals. With cross-platform accessibility, real-time features, and a focus on data accuracy, the system offers a versatile and user-friendly solution to enhance medication adherence and improve healthcare interactions, making it suitable for a broad spectrum of healthcare scenarios.

LIST THE MODULES INCLUDED IN YOUR SYSTEM?

1. Admin
2. Doctor
3. Patient
4. Caregivers

IDENTIFY THE USERS IN YOUR PROJECT?

1. Doctor
2. Patient
3. Caregivers

EXISTING SYSTEM

The existing medication management system is predominantly paper-based and relies on manual record-keeping. Patients and caregivers maintain handwritten records of medication information, including drug names, dosages, and schedules. There is no automated digital solution in place to streamline medication management or provide reminders for medication intake. This manual approach is prone to errors, may lack accessibility in critical situations, and makes it challenging to track medication history effectively.

DRAWBACKS OF EXISTING SYSTEM

- Prone to errors.
- Limited accessibility.
- No reminder system.
- Difficulty in medication history tracking.

PROPOSED SYSTEM

The proposed Patient Medication Tracker system is a digital solution designed to simplify and enhance medication management for patients, caregivers, doctors, and administrators. It consists of both mobile and web applications, along with a central database. Users can input medication details, dosages, and schedules, and the system sends timely reminders for medication intake. It also supports doctors in prescribing medications with automatic schedule generation and provides an administrative module for user management and medication database maintenance. This proposed system aims to improve medication adherence, reduce errors, and offer a more efficient way of managing medication-related tasks.

ADVANTAGES OF PROPOSED SYSTEM

- Simplified Medication Management: Streamlines the process of managing medications for users.
- Automated Reminders: Provides timely reminders for medication intake, reducing the risk of missed doses.
- Enhanced Medication History: Maintains a comprehensive record of medication history for patients.
- Efficient Prescription Management: Supports doctors with automatic schedule generation for prescriptions.