A Synopsis Report on

E-Pharmacy Management

IN

Information Technology Engineering

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CERTIFICATE

This is to certify that the Mini Project report on **E-Pharmacy Management** has been submitted by Gulshan Yadav, Rahul Kumar Yadav, Mansi Viramgama, Mayank Viramgama who are Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as partial fulfillment of the requirement for the degree in **Information Technology**, during the academic year **2021-2022** in a satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction:

E-Pharmacy Management is a project developed to automate medical stores' activities and improve their productivity. This helps pharmacies organize, manage, and secure drug information efficiently. E-Pharmacy Management is a platform where you can immediately enter a nearby medical shop. It features aids in the resolution of challenges with manual pharmacy management. A Pharmacy Management System can also help you keep track of your drug supplies. Prescriptions are proper and supplied in precise amounts using Pharmacy Management software. It oversees and manages the pharmacy team to preserve strong working relationships and outcomes. This can also improve quality and customer satisfaction ratings.

1.1 Purpose

The purpose of this proposal is to answer the needs and problems that are seen in pharmacy. The purpose of the project is to build an application program to tackle one's emergency. It ensures that you never run out of vital medicines in an emergency. This computer software is programmed to perform the various tasks required in the operation of a pharmacy. The system will improve the efficiency of the pharmacy and enable the storing of digital records. Managing a system for pharmacy is the process of creating and implementing evidence-based pharmaceutical usage strategies to improve member and population health while maximizing healthcare resources.

1.2 Objectives

- The main objective of the e-pharma service is to manage the details of medicines, stocks, medicals, etc. The Project is built administrative and thus only the administrator is guaranteed access.
- The project is built at the administrative end and thus only the administrator is guaranteed the access.
- The target of the project is to build an application program to tackle one's emergency.

1.3 Scope

The scope of pharmacy practice includes more traditional roles such as compounding and dispensing medications, and it also includes more modern services related to health care, including clinical services, reviewing medications for safety and efficacy, and providing drug information. Pharmacists, therefore, are the experts on drug therapy and are the primary health professionals who optimize the use of medication for the benefit of the patients.

Pharmacists are healthcare professionals with specialized education and training who perform various roles to ensure optimal health outcomes for their patients through the quality use of medicines. Pharmacists may also be small-business proprietors, owning the pharmacy in which they practice. Since pharmacists know about the mode of action of a particular drug, and its metabolism and physiological effects on the human body in great detail, they play an important role in the optimization of drug treatment for an individual

Chapter 2

Problem Definition

Problem Identified:

Imagine a scenario where it is difficult to find medicines from medical during an emergency. The **E-Pharmacy Management** Project Proposal has the complete description of the project to be proposed. This contains the problem statement which discusses the difficulties that the pharmacy management faced and it is considered the reason why the project is proposed. This proposal also includes the project scope that explains the boundaries and possible features of the project.

Solution Proposed:

E-Pharmacy Management is a healthcare platform where you can immediately get into medical shops. Pharmacy Management System Project is a great system for storing data, maintaining, and organizing the use and process of medications in the pharmacy. The purpose of this proposal is to answer the needs and problems that are seen in pharmacy management. To formulate the project proposal for this pharmacy management, you should address its problem first. By determining its problem, you can have ideas on what should be the modules or features of the Pharmacy Management System Project.

Chapter 3

Proposed System

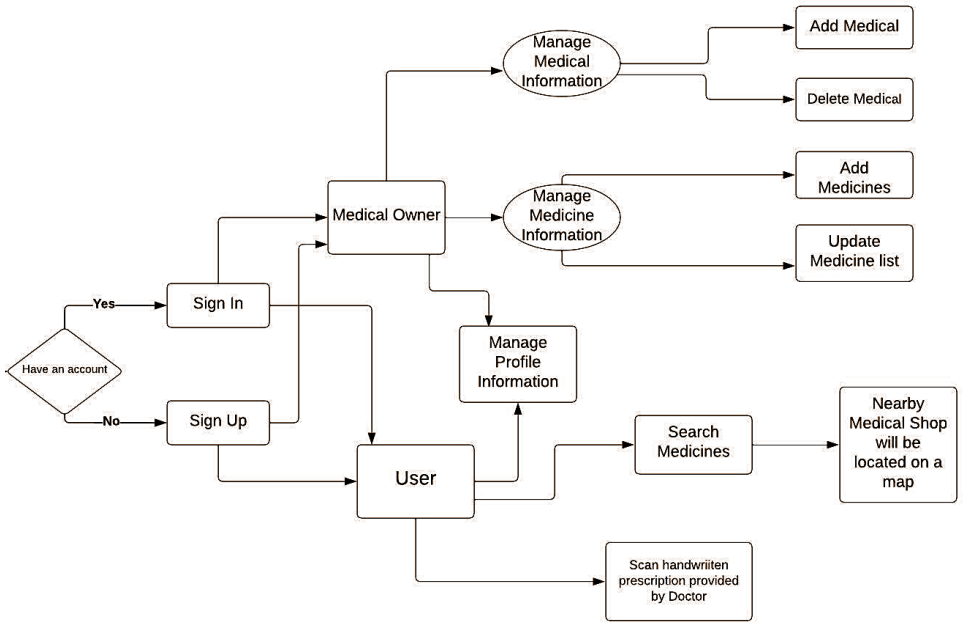

Fig 2.1 Block Diagram

The Above depicted diagram describes the control flow of the software.

3.1 Features and Functionality

- Token-Based Authentication: MedAlthea uses JWT authentication which leaves it up to the client-side to store and handle the entire session/user object. It makes much more sense because every client handles their data only, so it doesn't cause heavy lifting for the client-side either.
- Supports chain of medical Shops: MedAlthea supports a chain of medical shops, which means a single user or entity can create multiple medical shops according to his requirements.
- Location-Based Homepage View: Since MedAlthea aims to help patients in urgent need of drugs, this is the core feature that first tries to locate the user. If it is unsuccessful, then it tries to get the Pincode of the user by examining the user's IP address.

- Text Detection for Prescription (Stage: Experimental): MedAlthea offers the user real-time text detection of the prescription that extracts the drug name. It comes in handy for those customers who are visually impaired or illiterate.
- Most Searched Drug View (Stage: Experimental): MedAlthea shares all the insights of the drug searches with the medical Owner So that they can fill up the stocks of specific medicine for future business.

Chapter 4

Project Outcomes:

- Users can log in and Signup using their name, address, password, email, phone number, etc.
- If the medical owner has multiple medical shops he can add his shop.
- Medicines can be added and updated and it includes information such as the name of the medicine, Description, Price, and Quantity of that particular medicine.
- We have created different profile sections for both medical owners as well as for medical shops.
- Updated medicals and medicines are listed on the search page
- As soon as the user enters the medicine name and searches, he will be redirected to a map that will display the medical shops consisting of that particular medicine.

Chapter 5

Dependencies:

Backend:

- Django
- Amazon Relational Database Service (RDS)

Frontend:

- PyQt5
- REST
- TensorFlow

Chapter 6

Project Design

Here Medical Shop will be displayed by one medical owner.

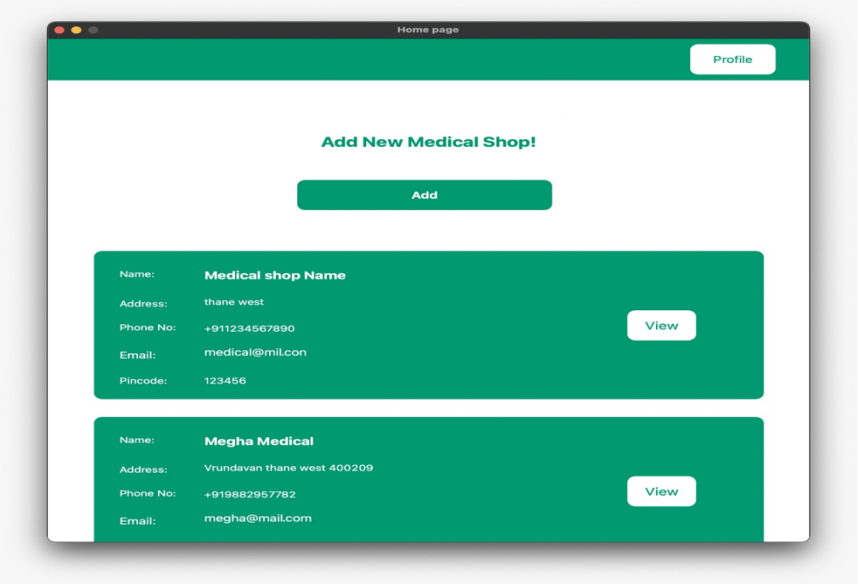

Fig: 6.1: Home Page for Medical Shop

Here medical owners can view their profile and log out from the application.

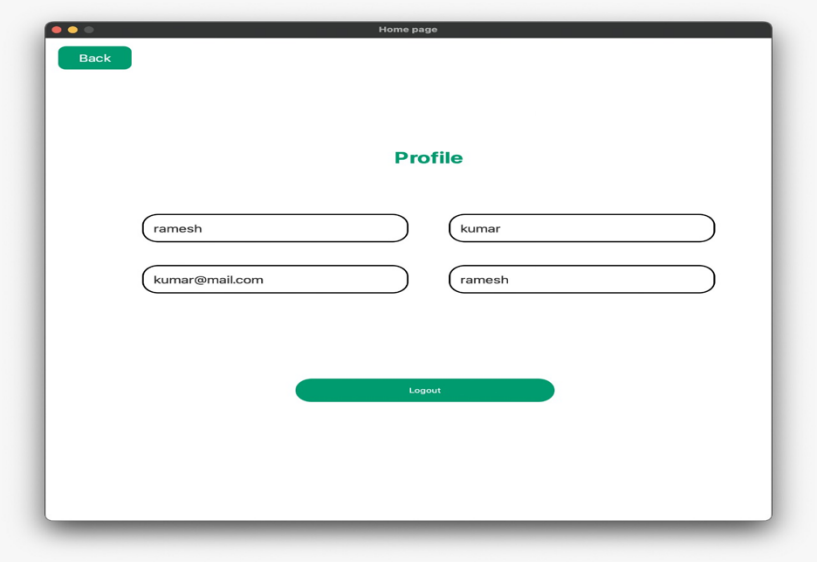

Fig: 6.2: Profile Page

Here Medical Owner will create or make an entry for their Medical Shop

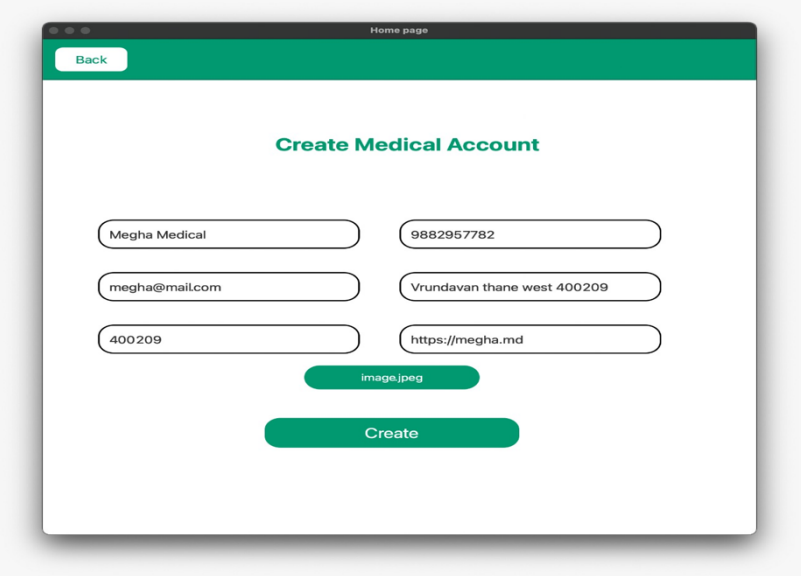

Fig: 6.3: Page for Create Medical Account

Here users can locate shops after giving the name of the medicine.

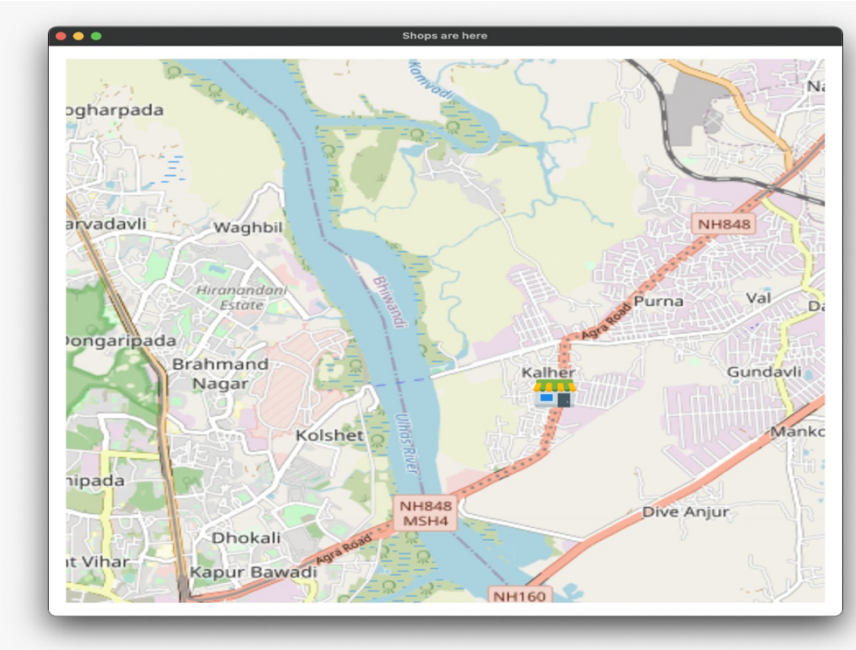

Fig: 6.4: Map where users can Locate Shops

Chapter 7

Project Scheduling

Sr.no	Group Members	Time Duration	Work to be done
1.	Gulshan Yadav	2nd week of January till 1nd week of February	Setting Up Backend for handling all the requests through REST API
2.	Rahul Yadav	2nd week of march till 1st week of May	Give Functionality and logic to the provided GUI and look after the PyQt5 section.
3.	Mansi Viramgama	1st week of March	Design GUI using PyQT5 and provided navigation.
4.	Mayank Viramgama	2nd week of March	Design GUI using PyQT5 and provided navigation.

Chapter 8

Conclusion:

E-Pharmacy Management is a free medical care service that aims to provide help to the one in need. In the current market, a user can order medicine from his mobile device too. But we're tackling the state of the user, where he/she is in urgent need of medicine. We plan to reach out to as many medical shops as possible so that our application can turn out into a monopoly in the market.

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