
Software Requirements Specification

for

<Medico>

Version 0.3 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The main motive of the Medical App is to make treatment more accessible to the patients. Some features including patient management, doctor details, appointment scheduling, health records, telemedicine functionality, diagnose diseases, availability of medicines in stores, will help to improve the healthcare quality.

These features collectively work towards improving healthcare quality by facilitating easier access to healthcare services, enhancing patient-doctor communication, ensuring efficient management of health records, enabling remote consultations through telemedicine, and streamlining the process of diagnosing diseases and obtaining necessary medications.

1.2 Document Conventions

The feedback that has got about the Medico app, is the fact of how the availability of the medicines can be maintained. This convention will be followed by a database which will provide the nearby locations of medical stores considering the patients convenient ones.

1.3 Intended Audience and Reading Suggestions

This medico app connects patients, doctors, and administrative members to enhance the healthcare system. The target audience consists of patients who own smartphones and are proficient in using mobile applications.

1.4 Product Scope

Patients can easily get healthcare tips as well as treatment. Also, fixing doctor's appointment is easier. Patients can get medicine suggestions through doctor's recommendation considering their nearby available medical store areas. This medico app will be available to the patients 24/7 to handle any kinds of emergency cases. The app will be accessible to patients round the clock, ensuring that they can address any emergencies promptly and efficiently. It empowers users to access event details and register for medical gatherings from any location and at any time. Patients can conveniently sign up for medical appointments through online registration forms, streamlining the registration process.

1.5 References

https://www.academia.edu/35954629/Software_Requirements_Specification_for_Hospital_Management_System

2. Overall Description

2.1 Product Perspective

The Medico app aims to improve patient access to healthcare services by offering functionalities such as patient management, doctor profiles, appointment booking, health record storage, telemedicine consultations, disease identification and pharmacy stock availability checking. All of these are designed to boost the overall quality of healthcare delivery.

2.2 Product Functions

- ❖ *User registration and authentication*
- ❖ *Booking appointments*
- ❖ *Accessing doctors' information*
- ❖ *Accessing medical history*
- ❖ *Setting appointment reminders*
- ❖ *Communicating with doctors through messaging or video calls*
- ❖ *Providing health tips*
- ❖ *Locating nearby pharmacies*
- ❖ *Sending emergency alerts or notifications*

2.3 User Classes and Characteristics

Here are some examples of user classes that you may anticipate using a medical app.

Patient:

Patients are one of the primary user classes and their needs will be given top priority. Patients using the medical app can range in age, gender, socio-economic background, and health conditions. They have access to secure messaging or tele-health features for communicating with healthcare providers, asking questions and seeking medical advice.

Doctor:

Doctors are healthcare professionals with expertise in diagnosing, treating, and managing various medical conditions. They hold valid medical licenses and certifications that authorize them. Doctors engage in continuous learning and professional development to stay updated with the latest medical advancements and best practices.

Admin:

Administrators play a vital role in maintaining the functionality and security of systems, ensuring a seamless user experience and protecting organizational data. They create, modify, deactivate user accounts and manage access to system resources.

2.4 Operating Environment

The hardware platforms in which the app is compatible with can be smartphones, tablets, or desktop computers. The supported operating systems are expected to be iOS, Android, or web browsers. Also, firebase will be integrated into the app.

Android Studio will provide an intuitive development environment that simplifies the creation of medical apps that allows to focus on implementing healthcare functionalities.

2.5 Design and Implementation Constraints

Here are some critical factors to consider working on a medical app.

- ❖ Data Security
- ❖ Interoperability
- ❖ Hardware Limitations
- ❖ Language Requirements
- ❖ Design Conventions

2.6 User Documentation

For the medical app, user documentation is crucial to guide users on how to effectively use the app. It includes detailed instructions on how to navigate the app, input data, utilize features, interpret results, and troubleshoot common issue. Step-by-step tutorials or video can guide that demonstrate how to perform specific tasks within the app, such as entering patient information, scheduling appointments, patient history etc.

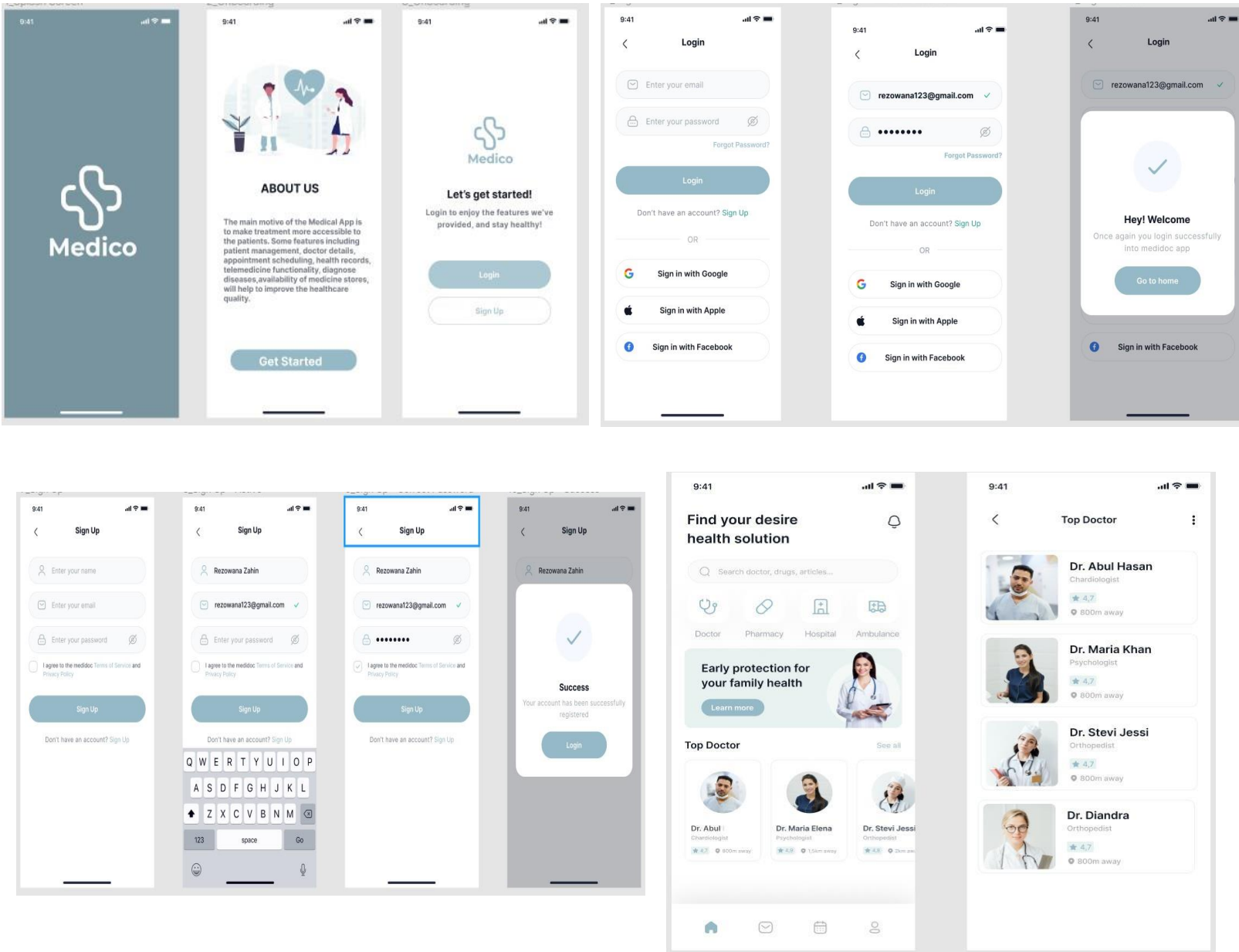
3. External Interface Requirements

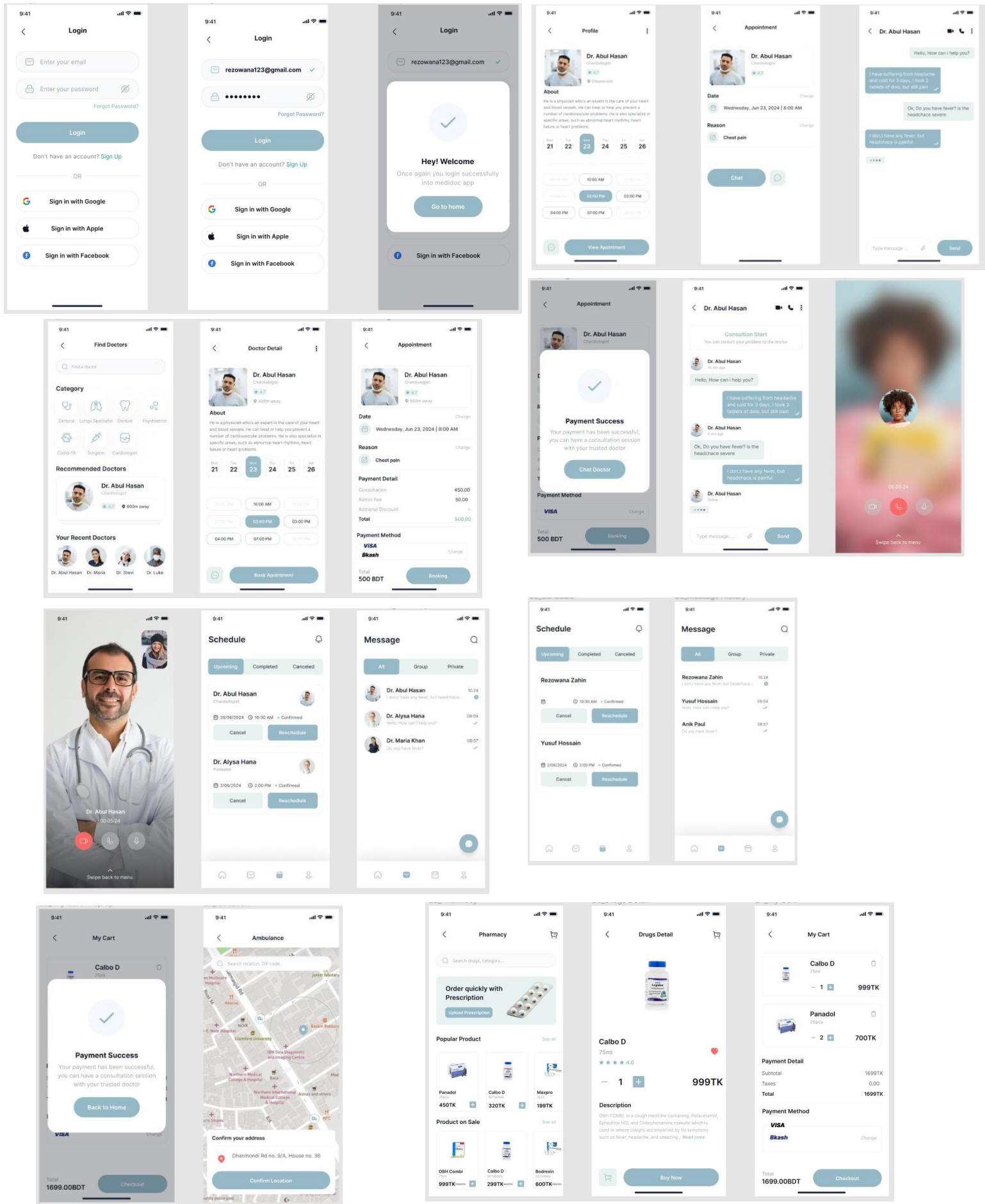
3.1 User Interfaces

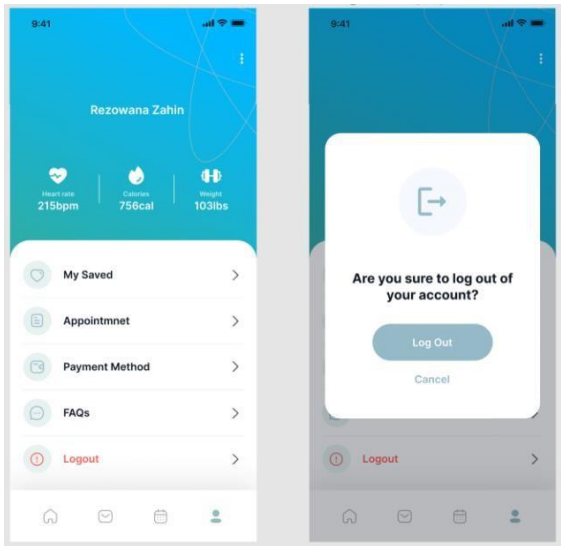
Here are some logical characteristics of each interface between the software product and the users in the context of a medical app.

- ❖ User Authentication Screen
- ❖ Patient Dashboard
- ❖ Doctor Portal
- ❖ Tele-health Consultation Interface
- ❖ Locating nearby pharmacies Interface

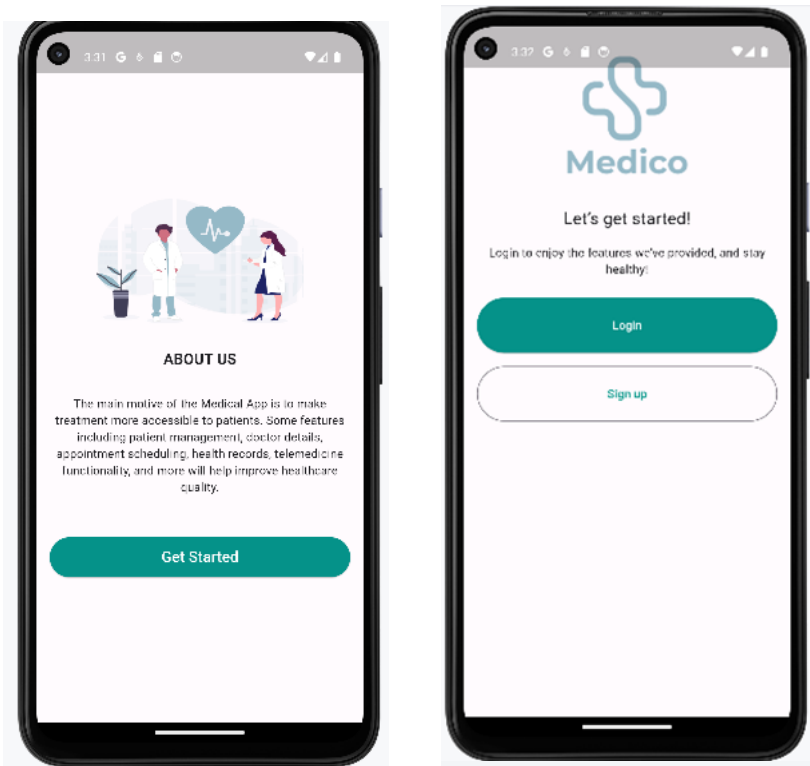
Expected Outcome

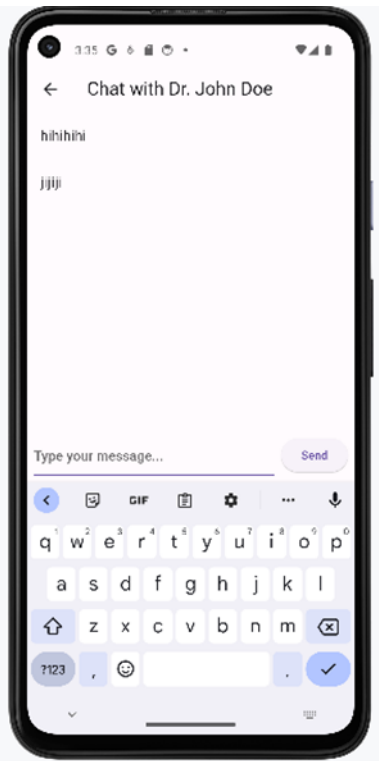
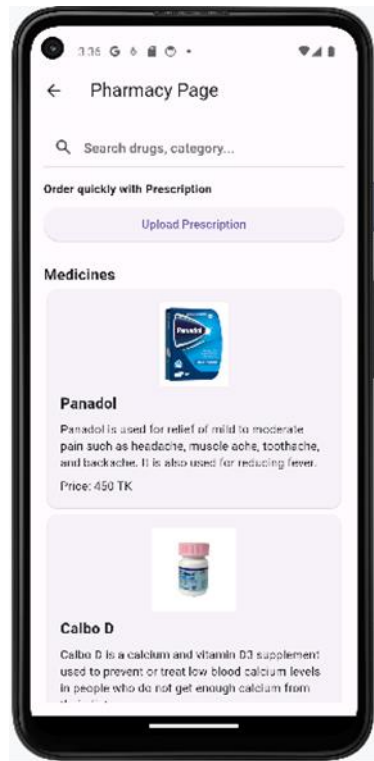
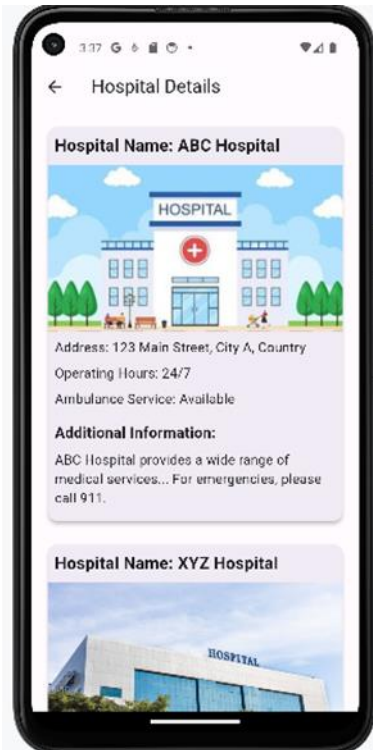
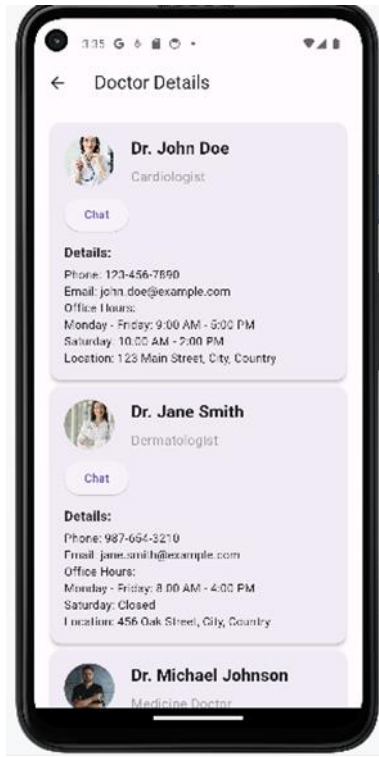
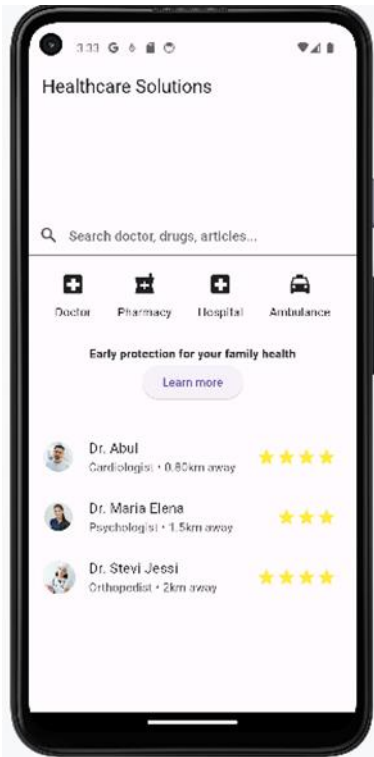
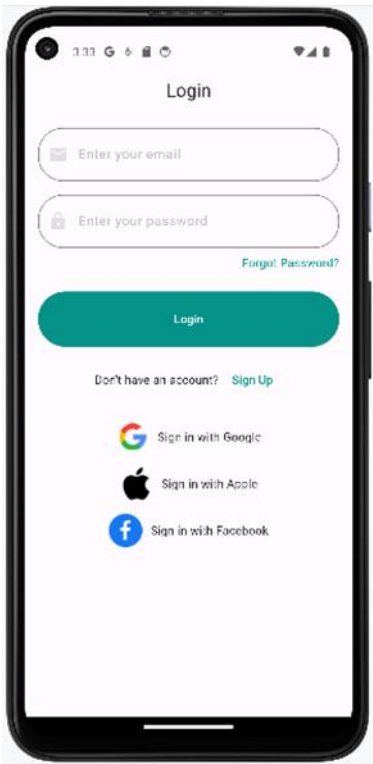


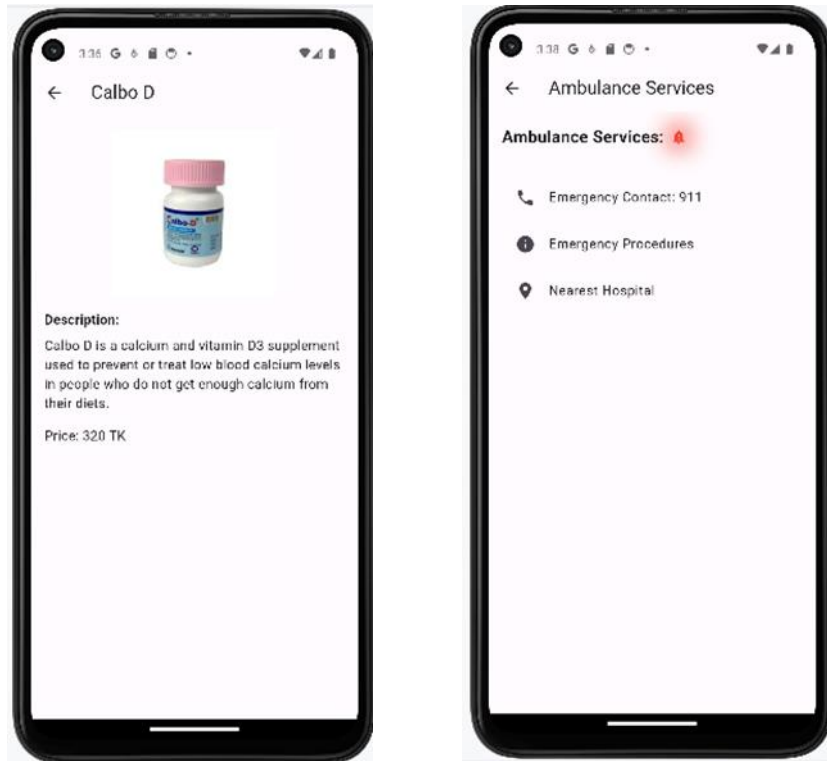




Final Outcome







3.2 Hardware Interfaces

The logical and physical characteristics of each interface between a medical app and the hardware components of the system can consider the following aspects.

- ❖ Supported Device
- ❖ Data and Control Interactions
- ❖ Hardware Requirements
- ❖ Real-Time Monitoring
- ❖ User Input and Feedback

3.3 Software Interfaces

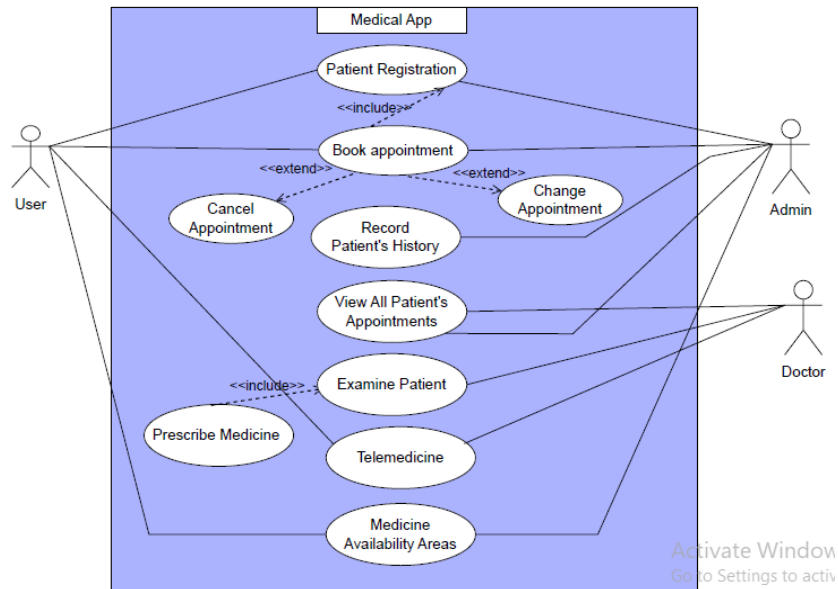
- ❖ Database Integration
- ❖ Operating System and Tools
- ❖ Data Items and Messages
- ❖ Services and Communications

3.4 Communications Interfaces

- ❖ Email Communication
- ❖ Web Browser Integrations
- ❖ Network Server Communication
- ❖ Security and Encryption

Appendix B: Analysis Models

Use Case Diagram:



Checkpoint

	Login	Home Screen	Doctor List	Chat & Call Option	Schedule	Pharmacy	Medicine Description	Hospital	Payment	Ambulance & Map
Status	Done	Done	Done	Partial (Chat option)	No	Done	Done	Done	No	Partial (Ambulance done)