20 24

شفاؤك

APP

Your health, our mission

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Dr: Amira Idris

AGENDA

- Introduction
  - proplam
  - solution
  - motivation
  - project idea
- Requirements
  - Humen Requirements
  - Software Requirements
  - Hardware Requirements

AGENDA

- Analysis and Design
  - Time line
  - Feasibility Study
  - Exsisting System
  - App Design
  - Database Design
- App Devolpment
  - Flutter Implemantion
  - Database Implamantion

INTRO-DUCT-ION

PROBLEMS

The number of patients with chronic diseases has increased and speeded among all different age generations.

PROBLEMS

01.

PROBLEM NO.1
40% of
Arab have
Diabetes.

02.

PROBLEM NO.2
26% of Arab
Diabetes
Patients Are

03.

PROBLEM NO.3
8% are the ones who
follow the treatment.

04.

PROBLEM NO.4
Egypt is the 1st county
in the Arabian Ranking
of the Diabetes
Patients Numbers.

05.

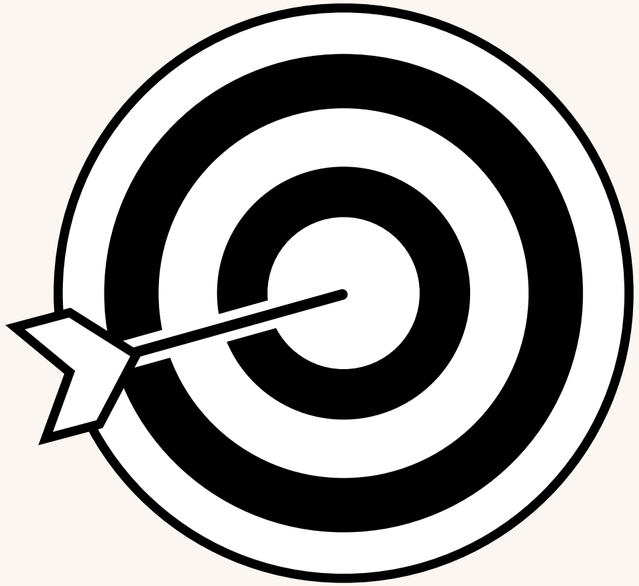
PROBLEM NO.5
Patients are
Taking medicines
without medical
reference

PROJECT CHALLENGES

- Data Collection Process
- Google ML Kit

PROJECT MOTIVATION

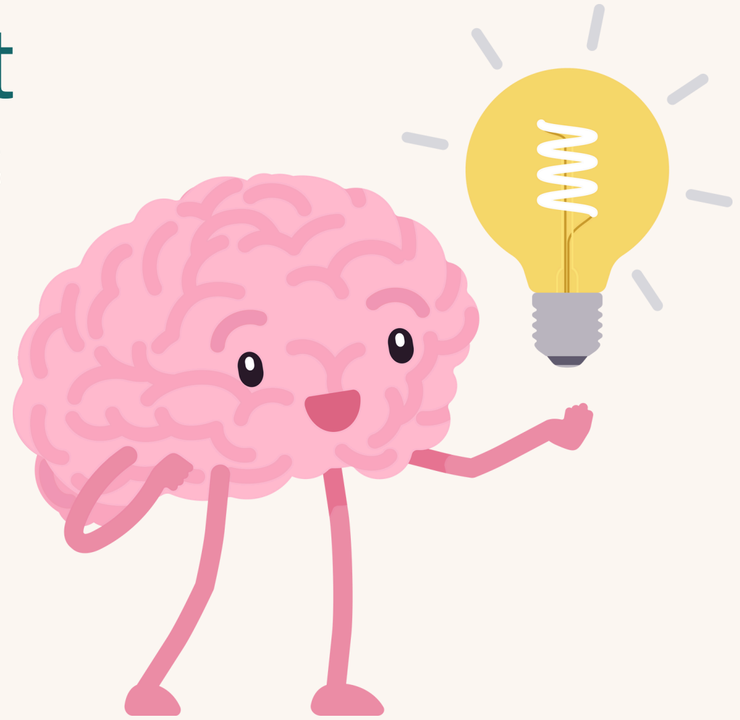
- The idea of Impacting other peoples lives, turn it into a better shape through the simplest means even by changing the lifestyle.
- The increasing numbers of Internet and applications users to the age of 60s.
- The unavailability of a replica to such an idea



PROJECT IDEA

The idea of Impacting other peoples' lives, turn it into a better shape through the simplest means even by changing the lifestyle.

The increasing numbers of Internet and applications users to the age of 60s. The unavailability of a replica to such an idea Arab 2030 vision.



SOLUTION

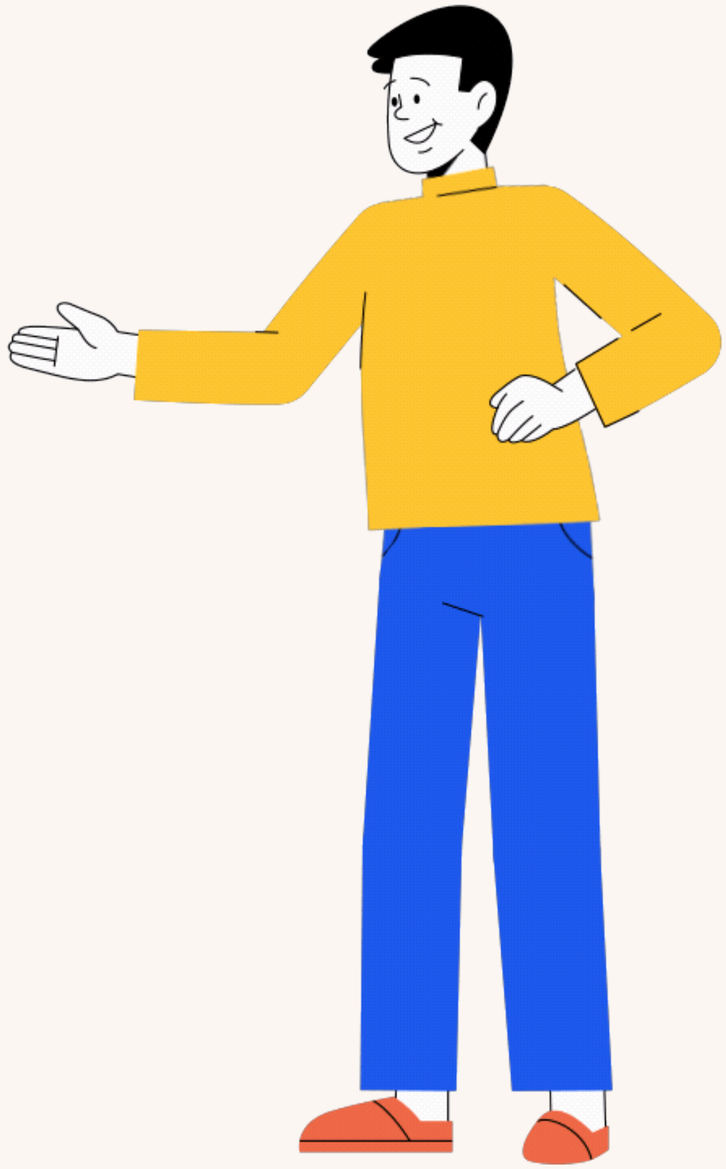
Developing an instant medical assistant for them. The patient can search for the interaction between the medicine he wishes to take for now and its validation state with the medicine he already has scheduled.

REQUIREMENTS

HUMAN REQUIREMENTS

Team Leader

- UI / UX Developer
- Tester
- Reporter
- Back-end (firebase -dart) Developers
- Database administrator
- Front-end Developers (Dart- Flutter)



SOFTWARE REQUIREMENTS

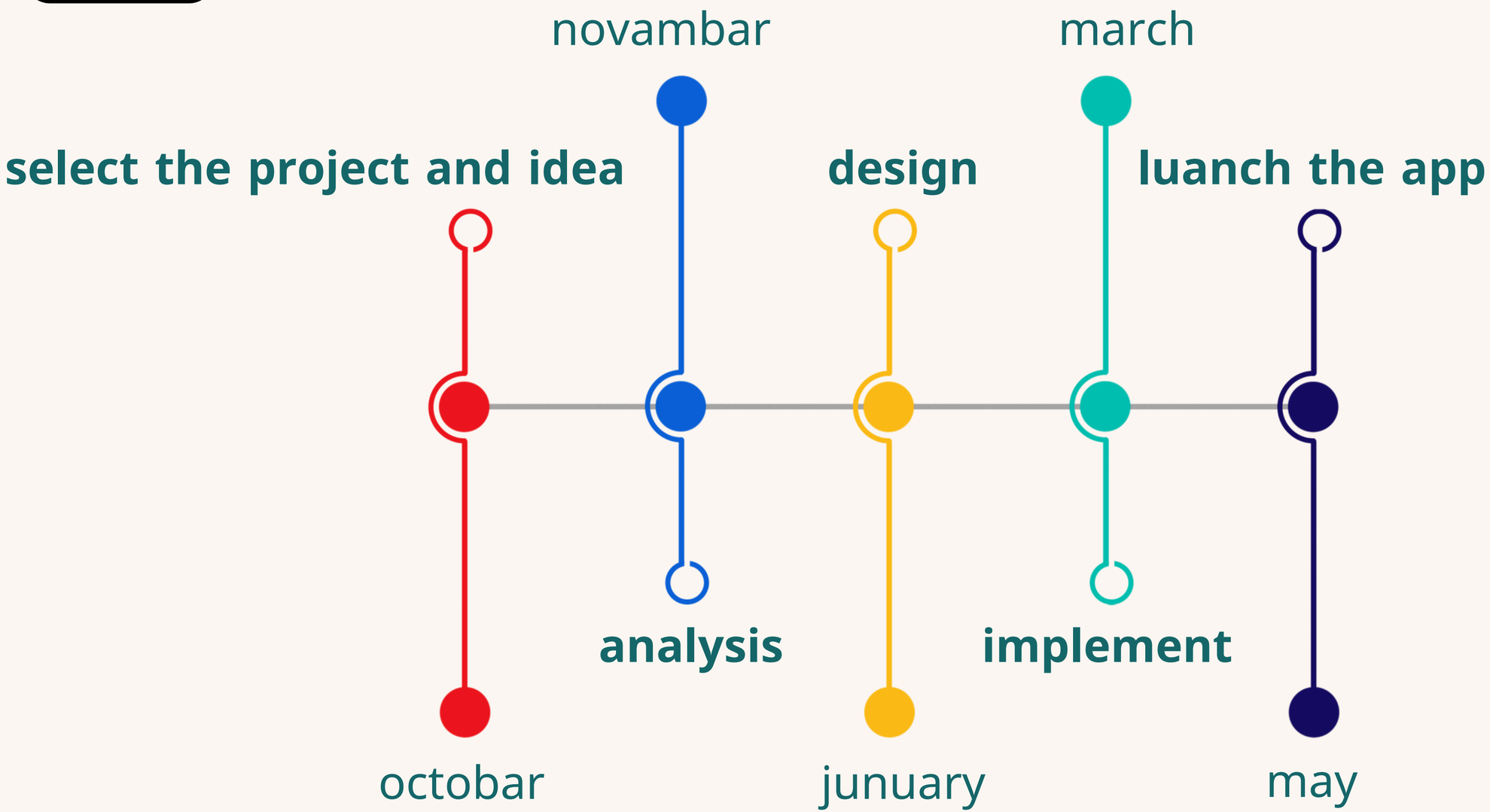
- Allow access to mobile logs for mobile.
- Allow access to camera, Photos, and Locations.

HARDWARE REQUIREMENTS

- Pc

Analysis and Design

TimeLine


novambar
march
select the project and idea
design
luanch the app
analysis
implement
octobar
junuary
may

Feasibility Study

After researching & analyzing the market, there are more than 3.5 million users of only one medical application In Egypt. The society is starving for such a services

Exsisting System

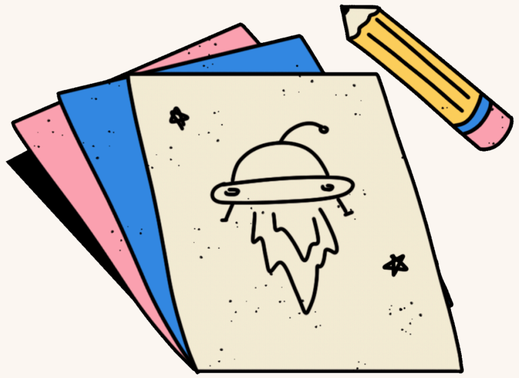
existing systems for drug-drug interaction (DDI) apps provide valuable information but face certain challenges. These include incomplete and outdated information, variability in data sources and quality, lack of contextual information, limited assessment of severity and clinical significance, lack of integration with electronic health records, user interface challenges, and limited patient engagement

In the following table, we compare our application called " Shifawuk " with the related applications. In this comparison, we excel in the factors on which the application is measured in terms of free service, ease of use, support for Arabic language and the possibility to use the camera to examine the name of the drug and alert the medicine to take it on time and the partnerships in the applications to ensure quality in the information

APP	Shifawuk	Medisafe	MyTherapy	CareZone	Sehtay	Dawaee
Free to use						
User-Friendly Interfaces						
Support arabic						
Ability to scan the drug						
Alarm for the drug						
Collaborative Efforts and Partnerships						

DESIGN OF THE APP

Logo Perspective



Color Perspective

UI / UX Perspective

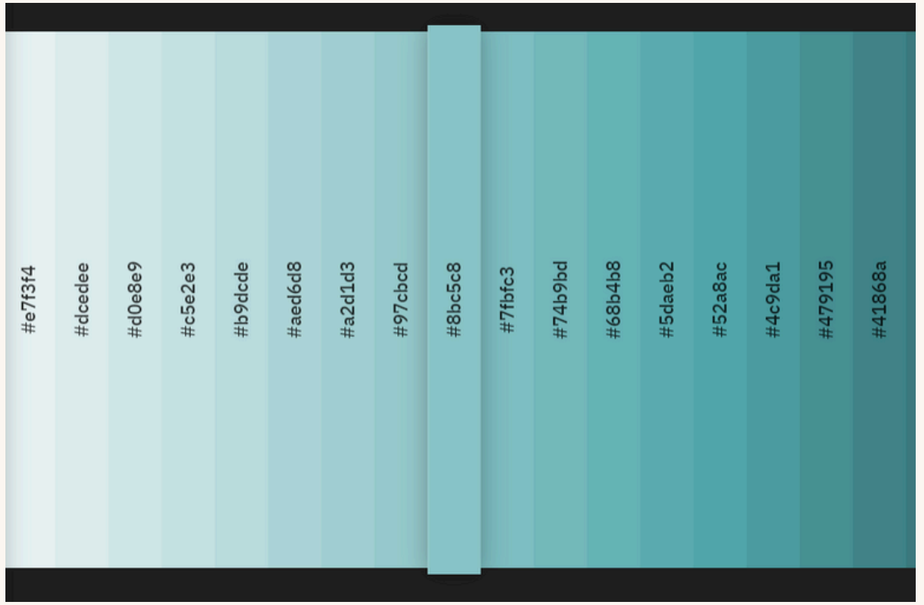
Logo Perspective

The image contains a slogan called "Your Healing". It consists of a bowl containing the symbol of a snake and a staff, which indicates health medicine.
Above the bowl are plant leaves, which may symbolize alternative or herbal medicine.

On the side is the year 2024 written, indicating the year the app was created

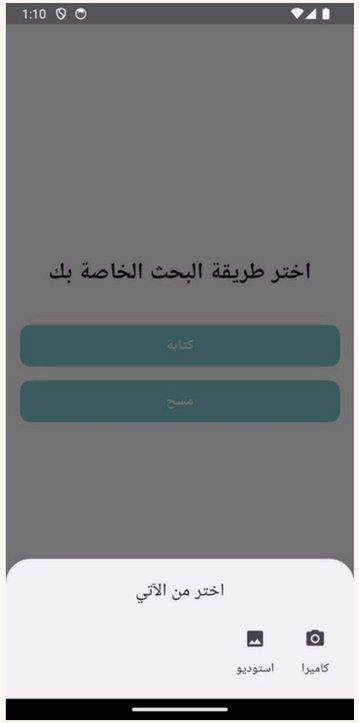
COLORS PERSPECTIVE

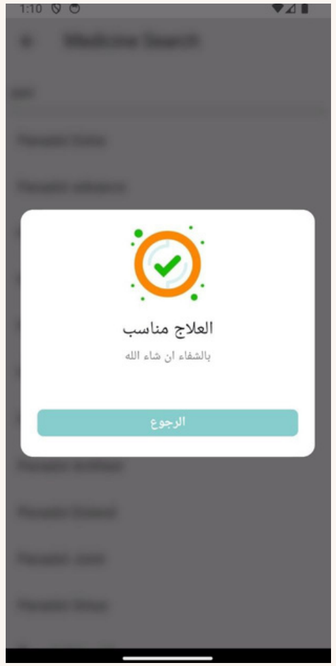
#8bc5c8

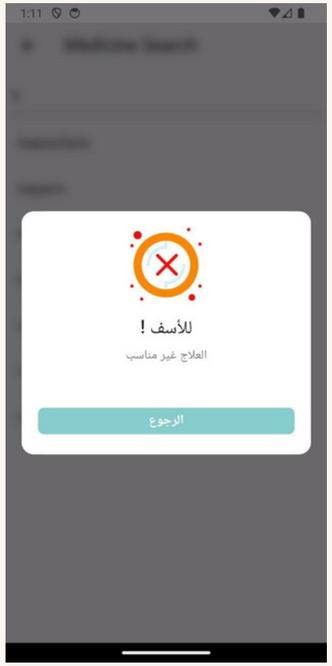


We used poloBlue color palette as our main design palette of the application, as the SkyBlue reflects all meanings of trust and deep profession in investments industry.We seek to implant our routed ideas within our customers minds by the simplest ways as well as the most effective ones as well.

UI / UX PERSPECTIVE

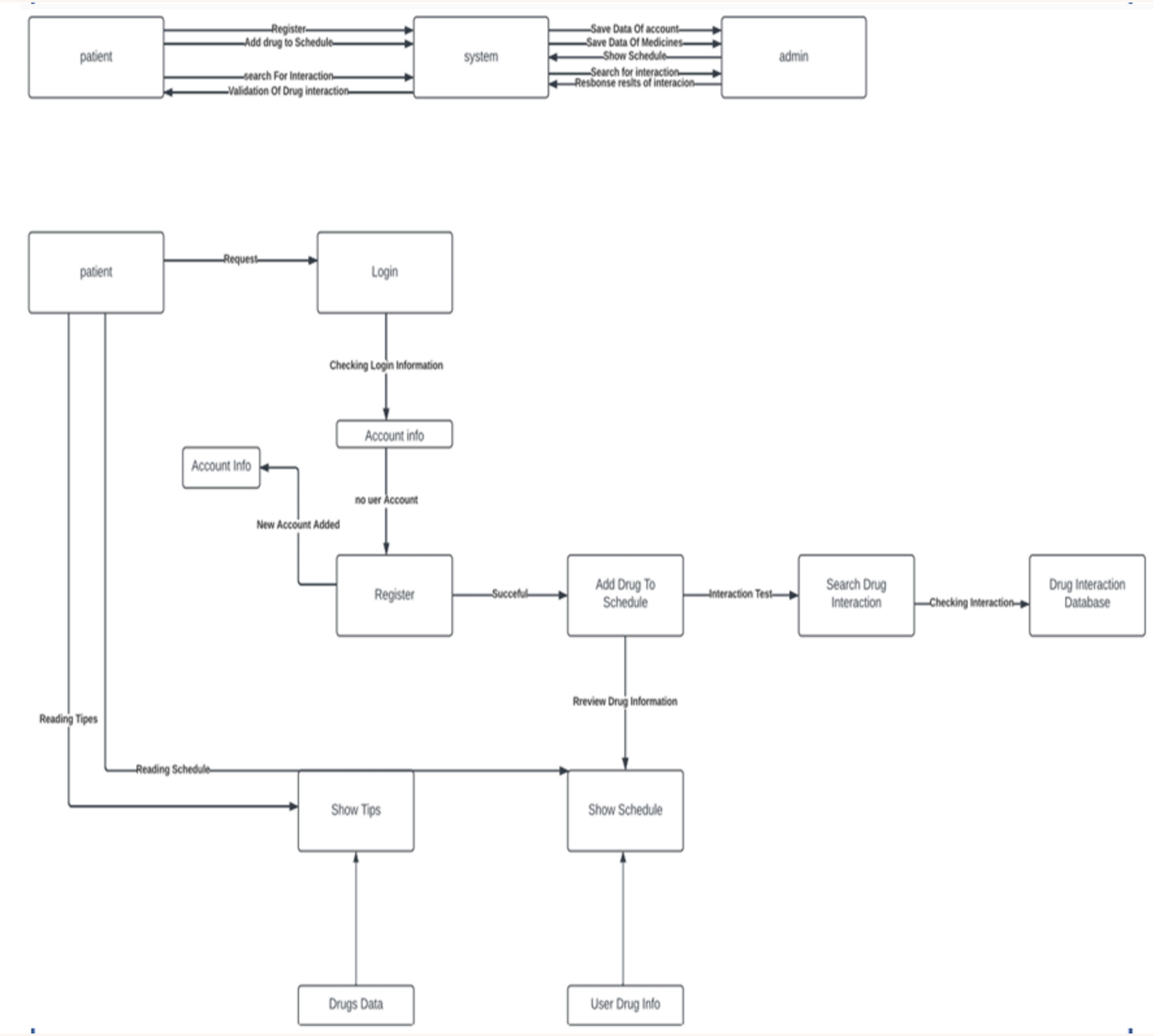




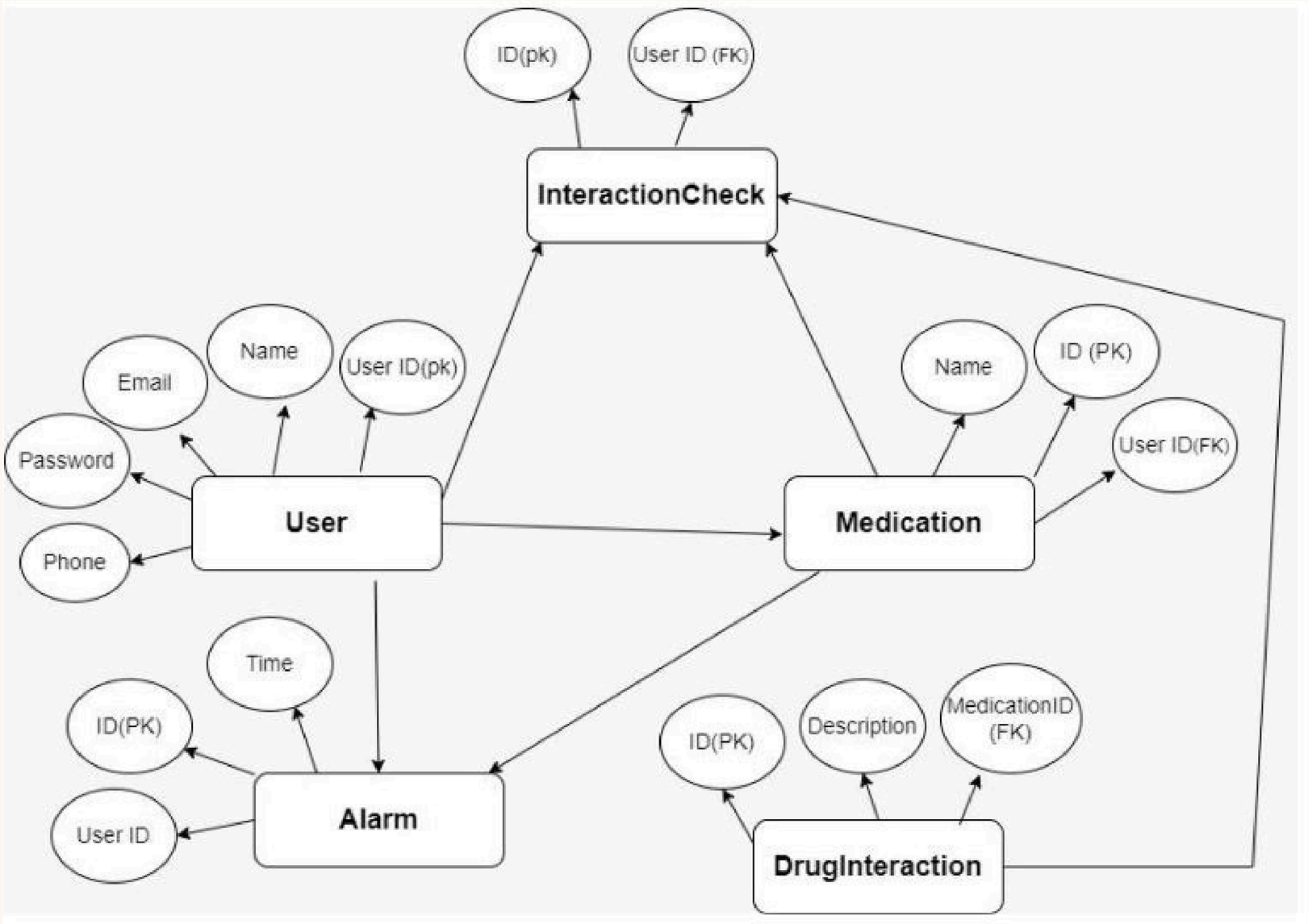


The UI was design and Illustrated from scratch following the ambition of dalvering an easy to use application

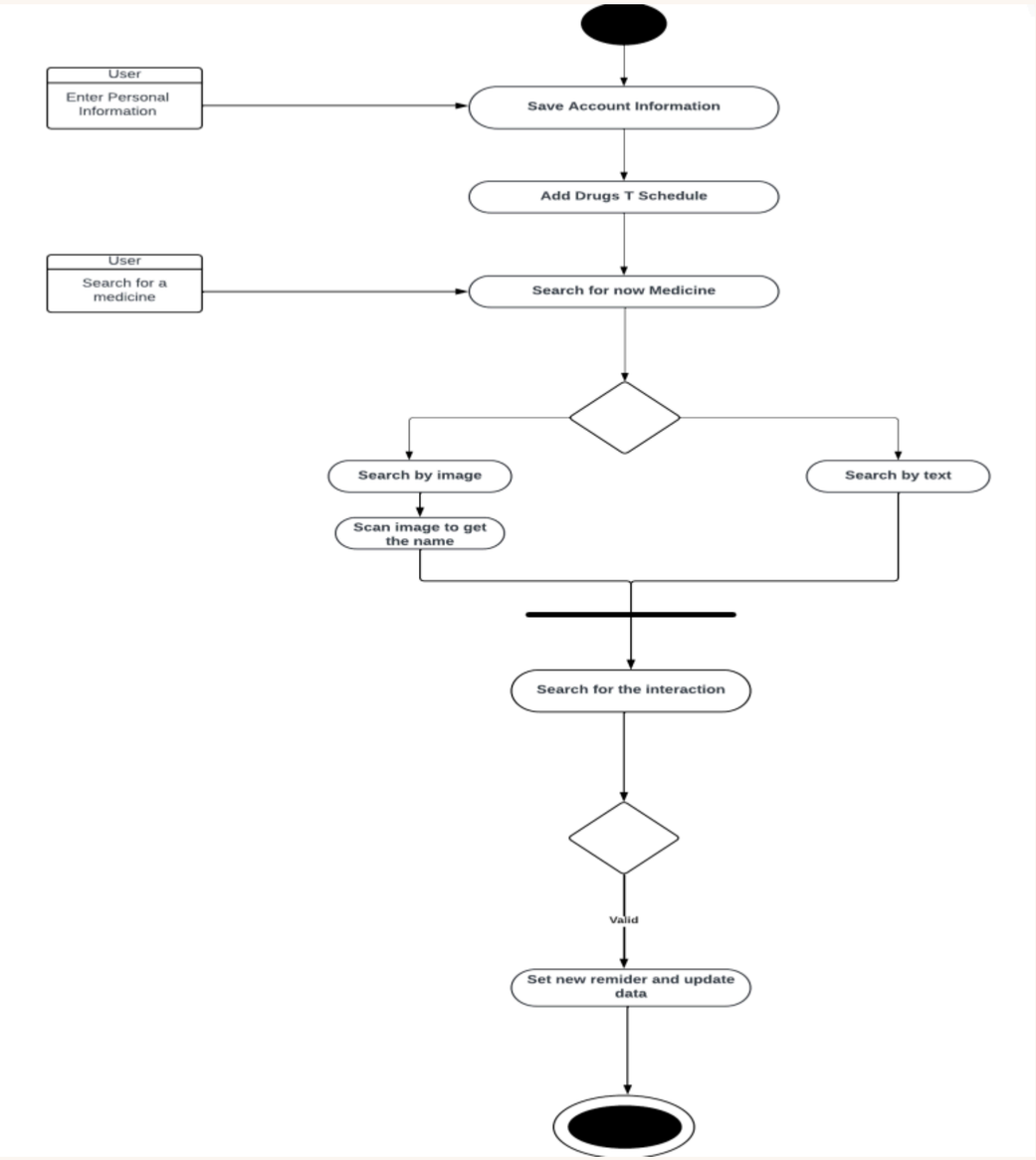
DFD CONTEXT DIAGRAM



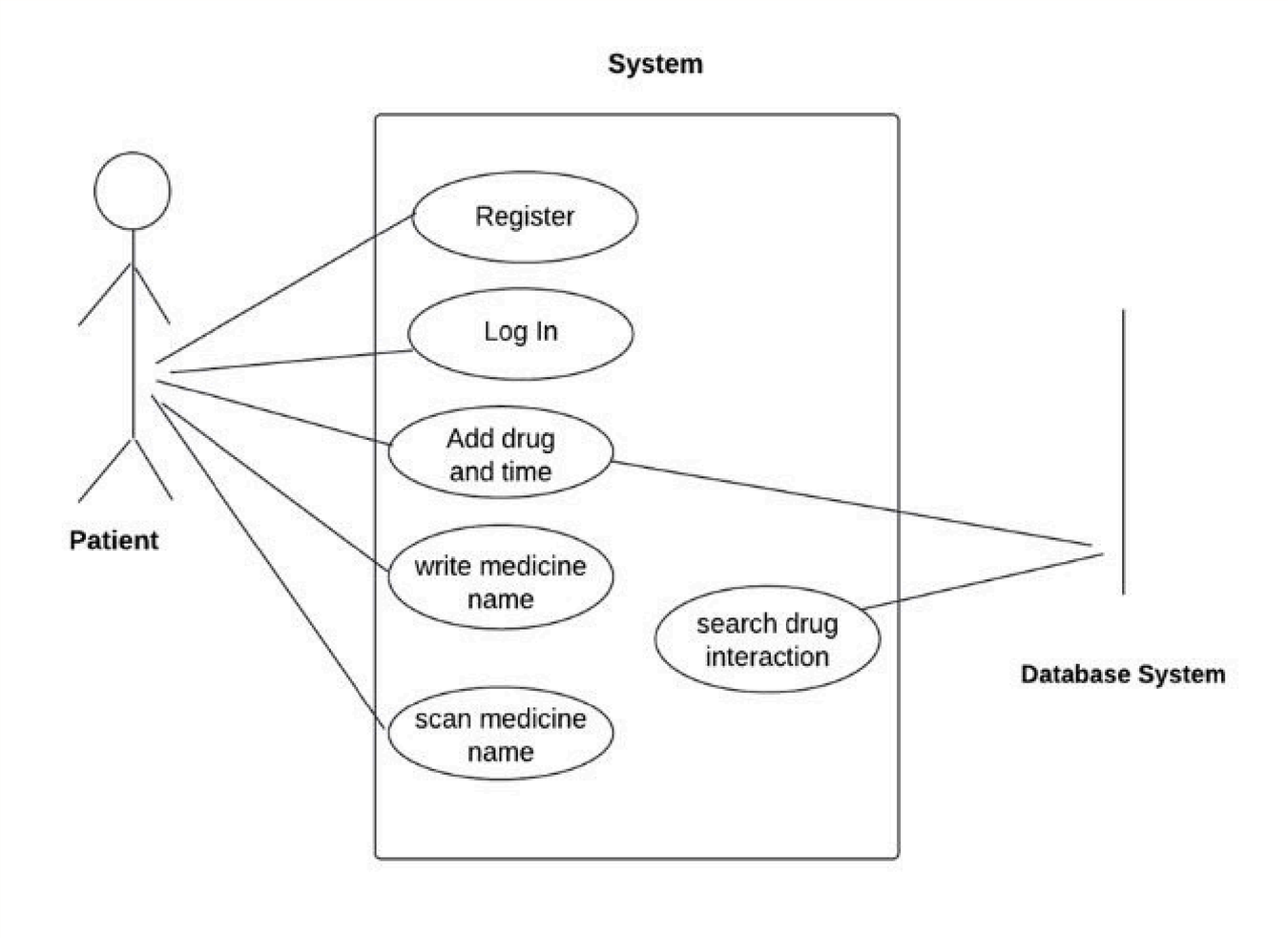
ERD DIAGRAM


ID(pk)
User ID (FK)
InteractionCheck
Name
User ID(pk)
Email
Password
Phone
User
Name
ID (PK)
User ID(FK)
Medication
Time
ID(PK)
User ID
Alarm
ID(PK)
Description
MedicationID (FK)
DrugInteraction

ACTIVITY DIAGRAM



USE CASE DIGRAM



UML SEQUENCE DIAGRAM

Account Creation and Login:

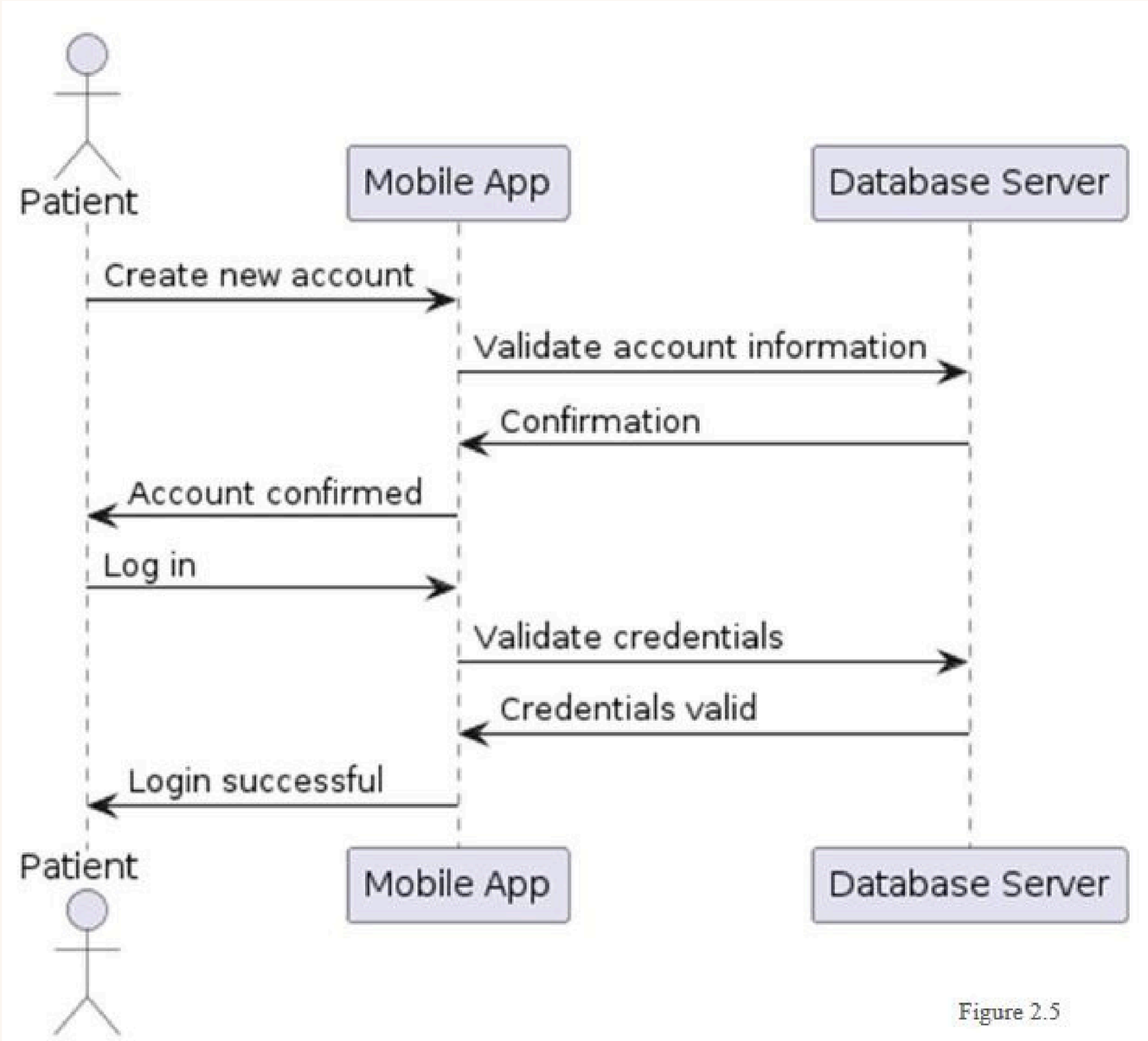
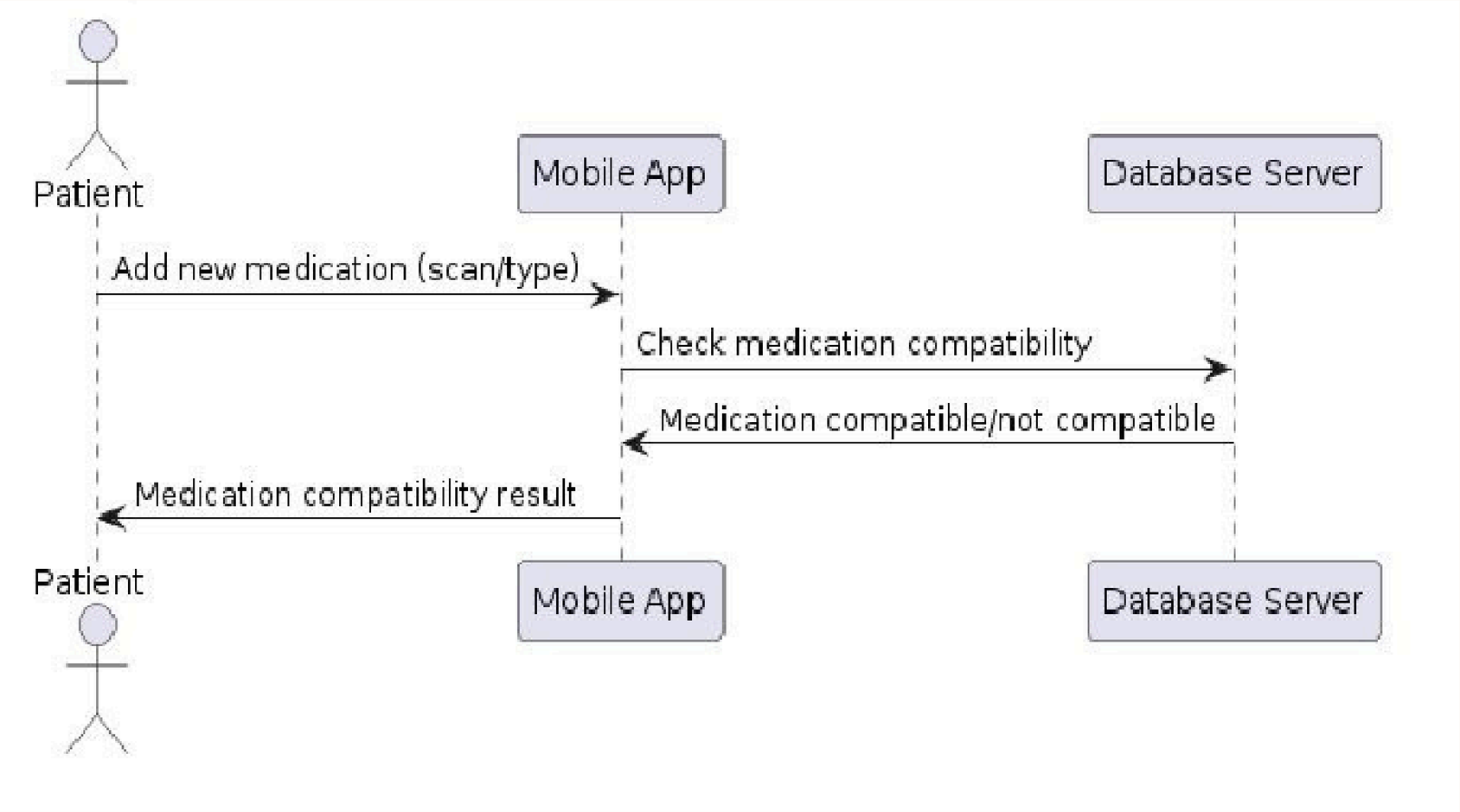


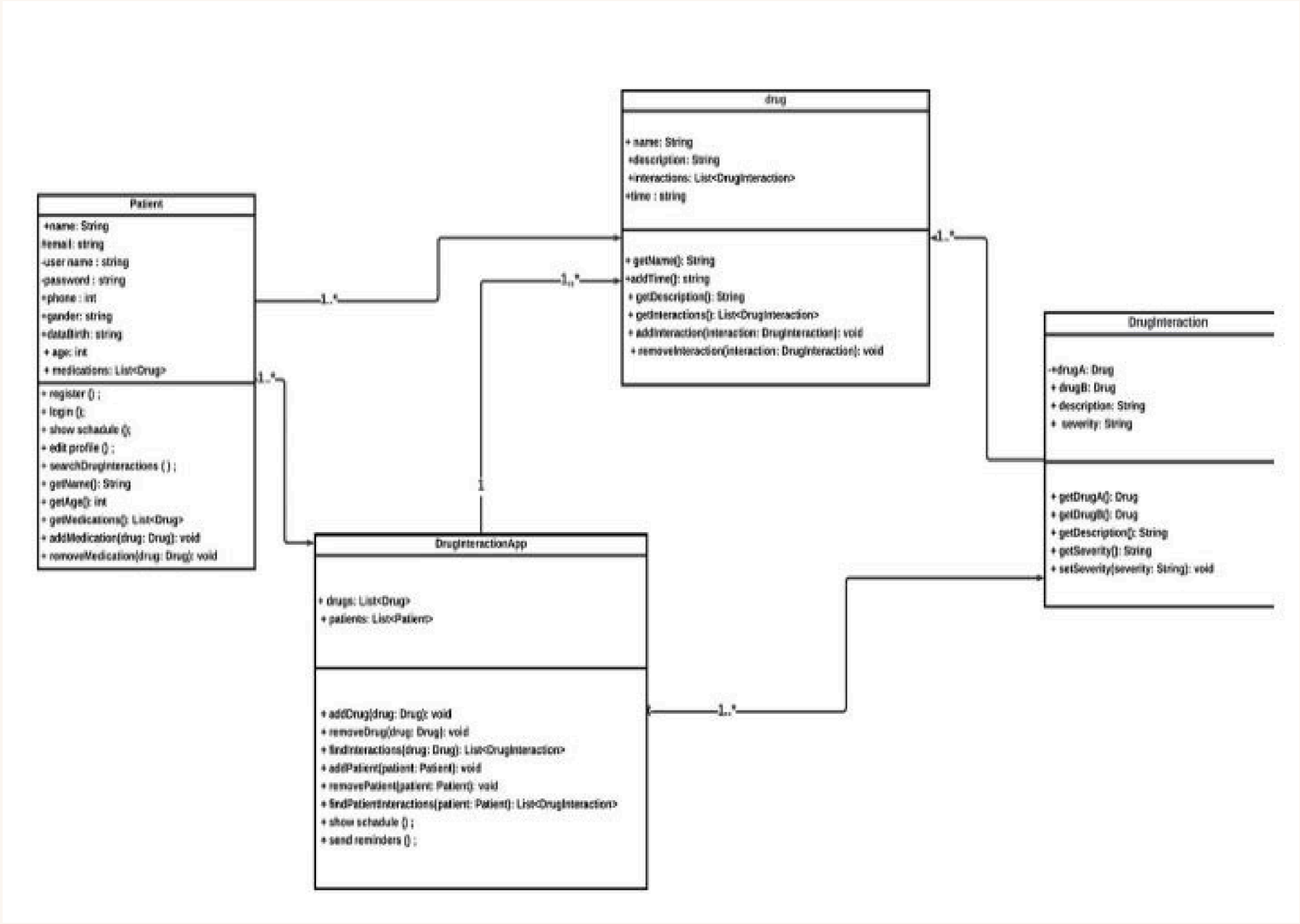
Figure 2.5

UML SEQUENCE DIGRAM



Medication Verification:

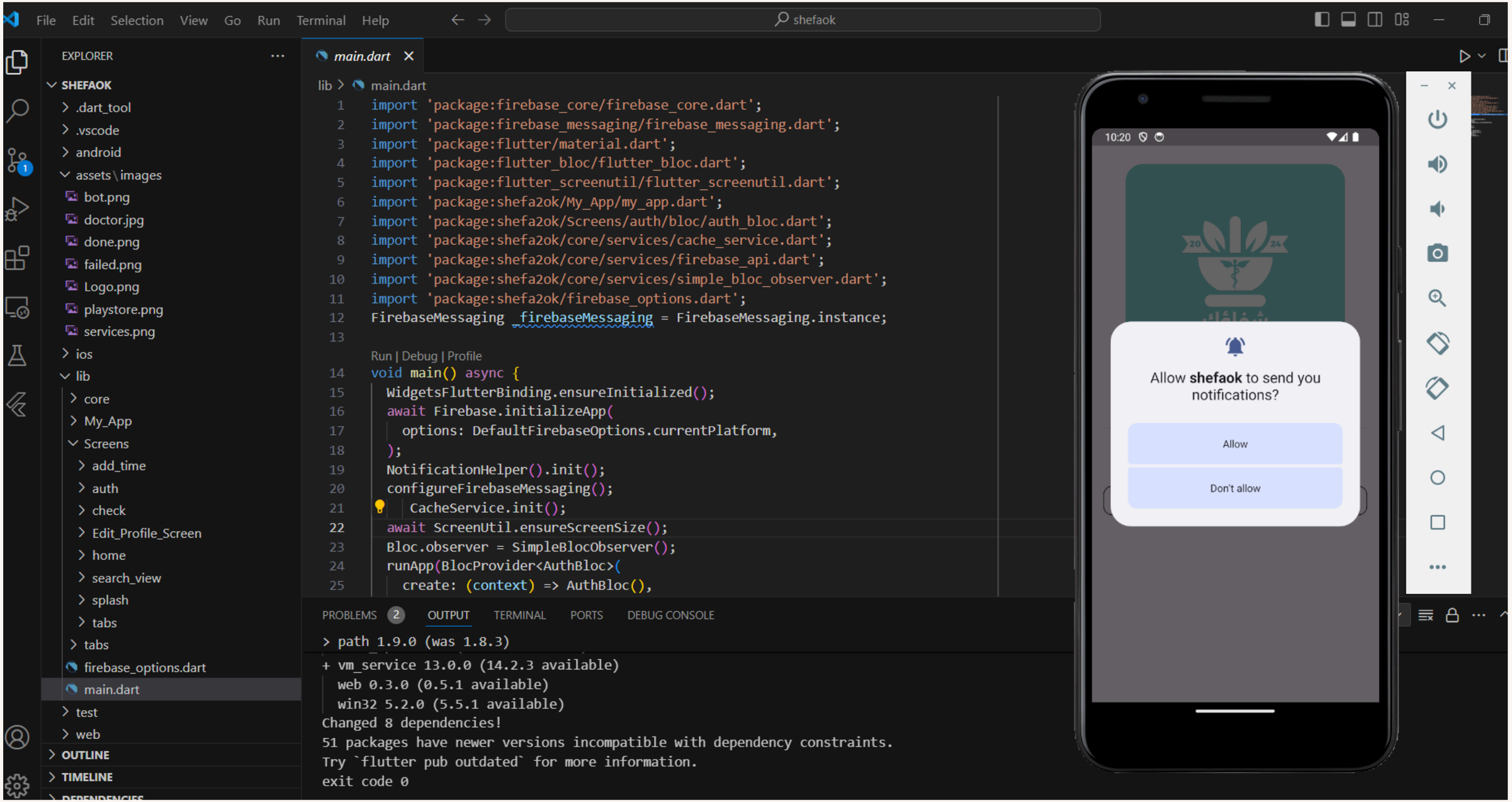
UML CASE DIGRAM



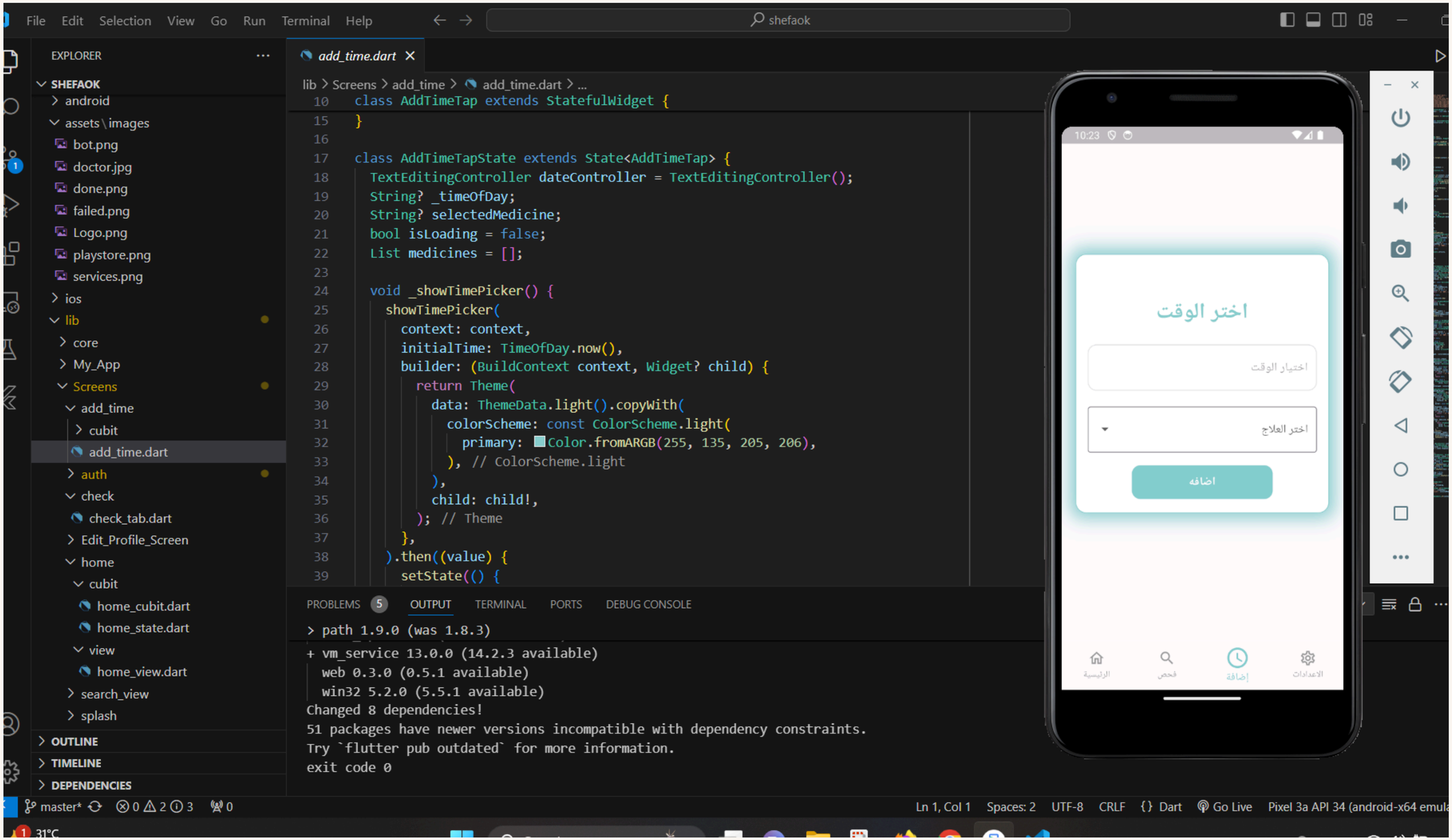
App Devolpment

Flutter implemantion

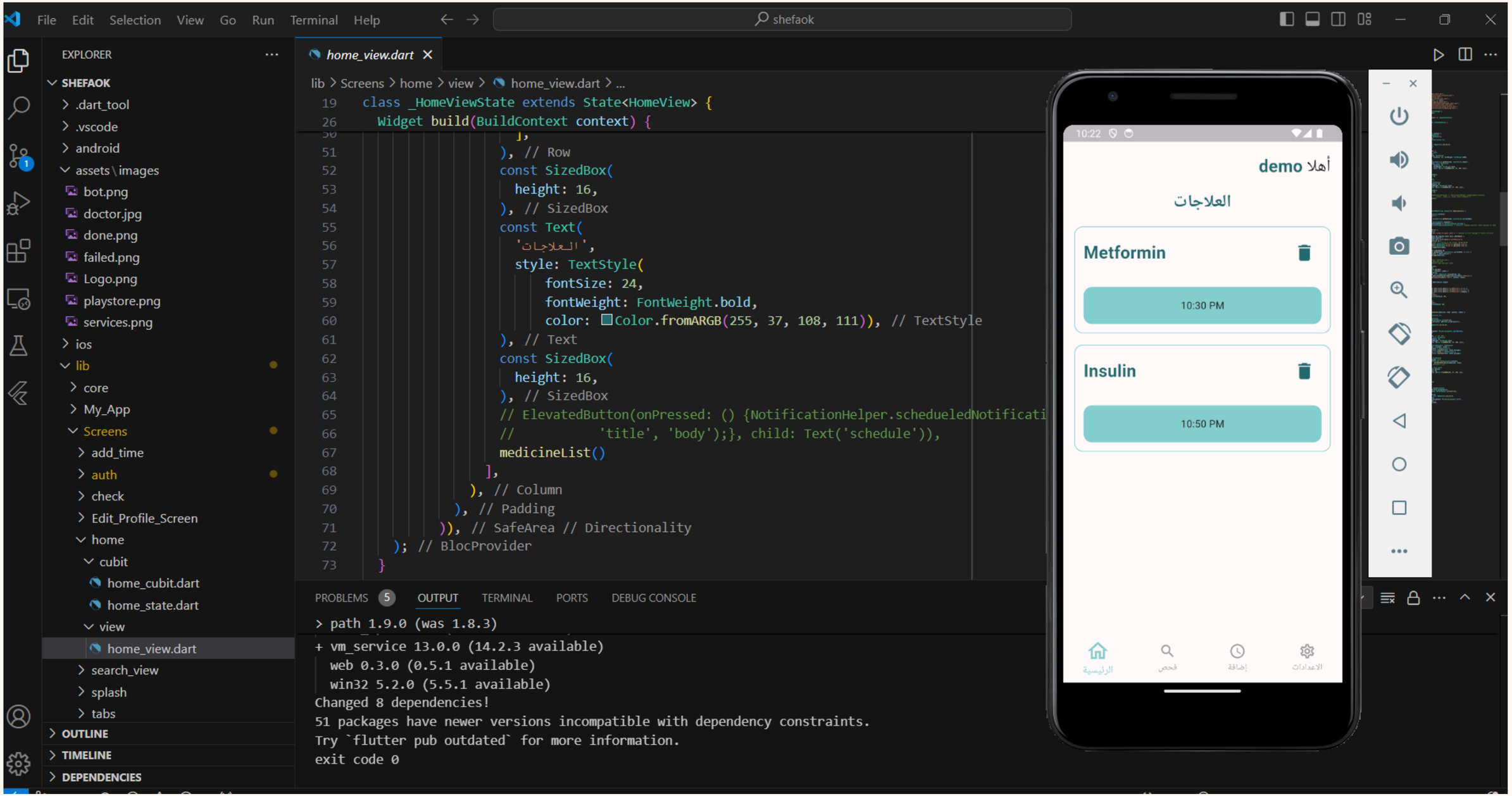
Flutter implemantion



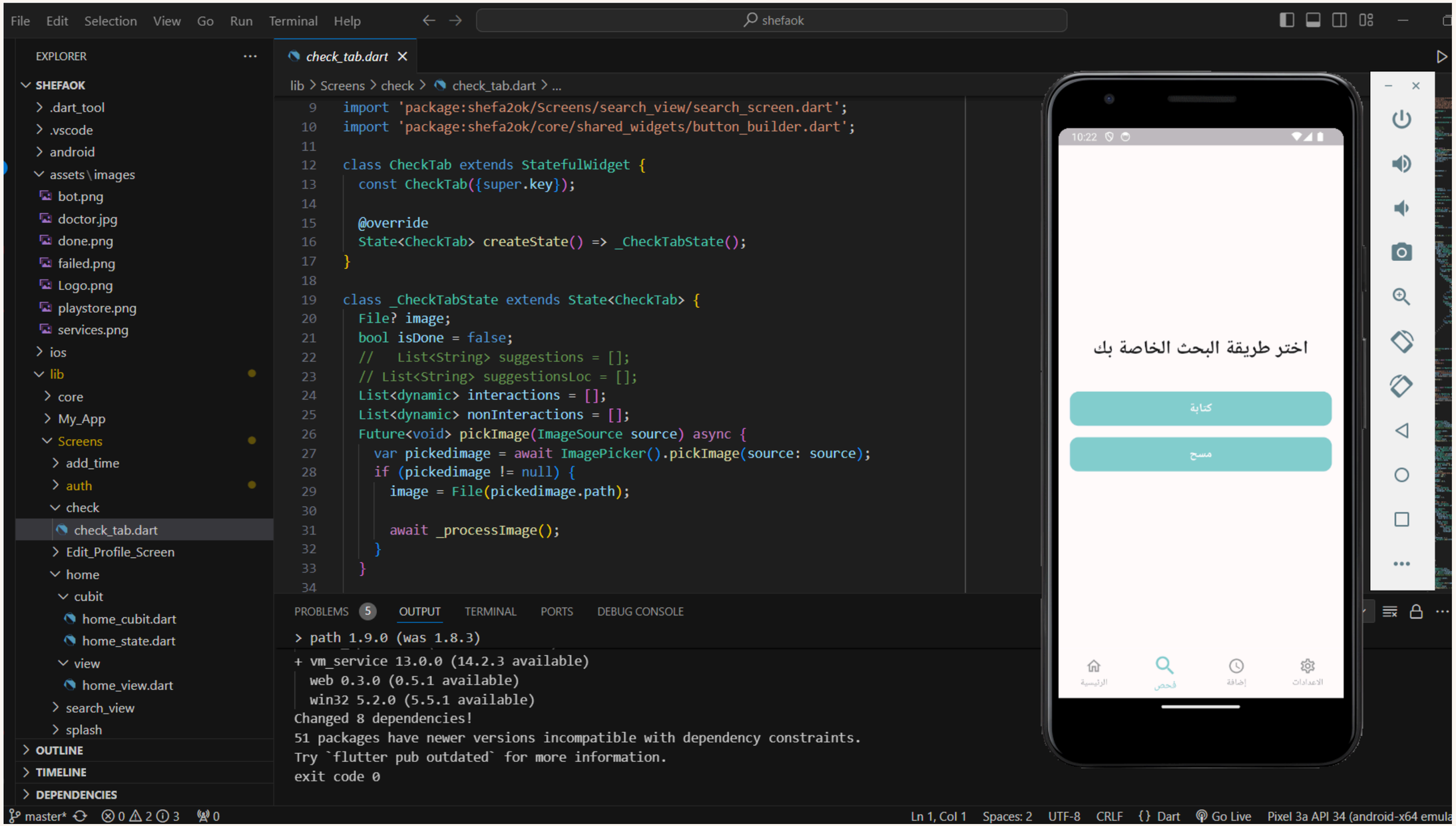
Flutter implemantion



Flutter implemantion



Flutter implemantion



Database Implamantion

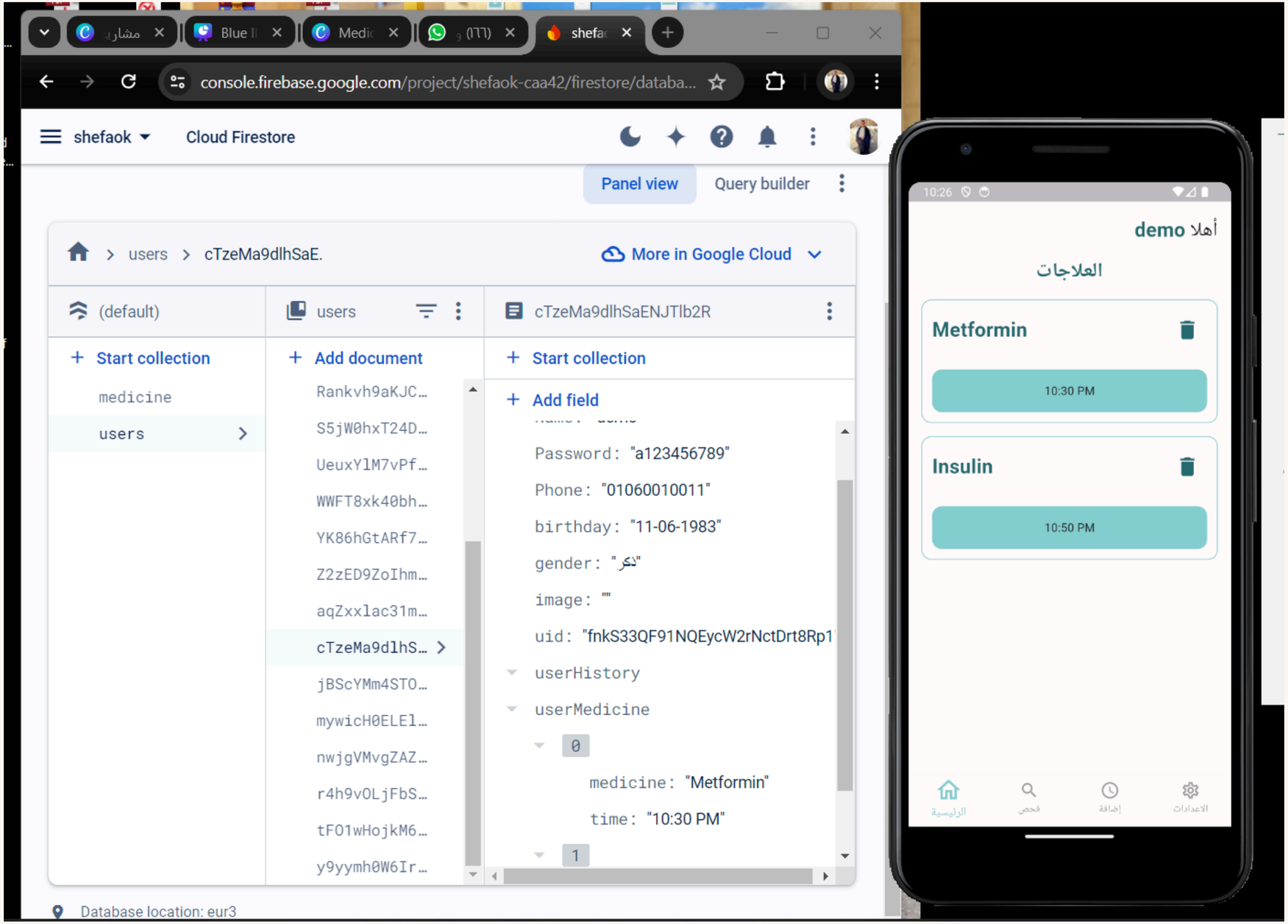
Firebase

Database Implamantion

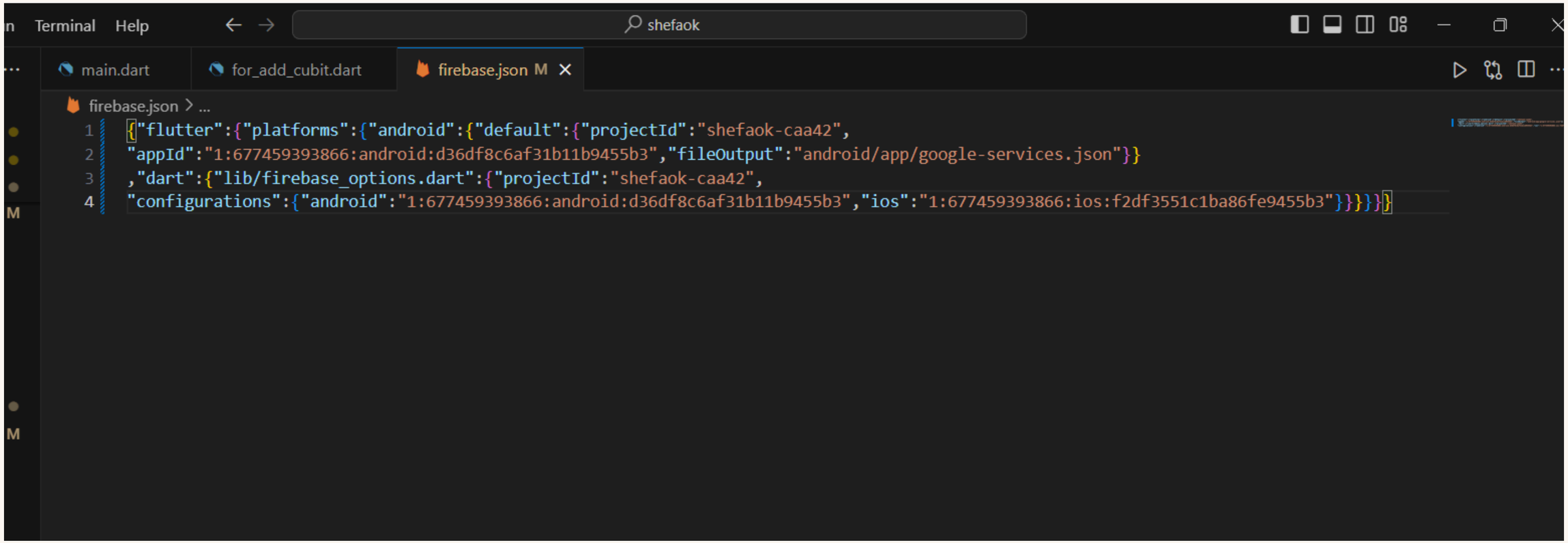
Using Firebase in a mobile app focused on drug-drug interaction (DDI) checks and drug reminders is important for several reasons. It enhances the app's functionality, reliability, and user experience, while also simplifying the development process. Here are some key points outlining the importance of integrating Firebase into such an app:

- Real-Time Database and Data Synchronization
- User Authentication and Security
- Push Notifications and Engagement
- Analytics and User Insights
- Scalability and Reliability
- Ease of Integration and Development Speed
- Enhanced User Experience
- Data Analytics and Monitoring

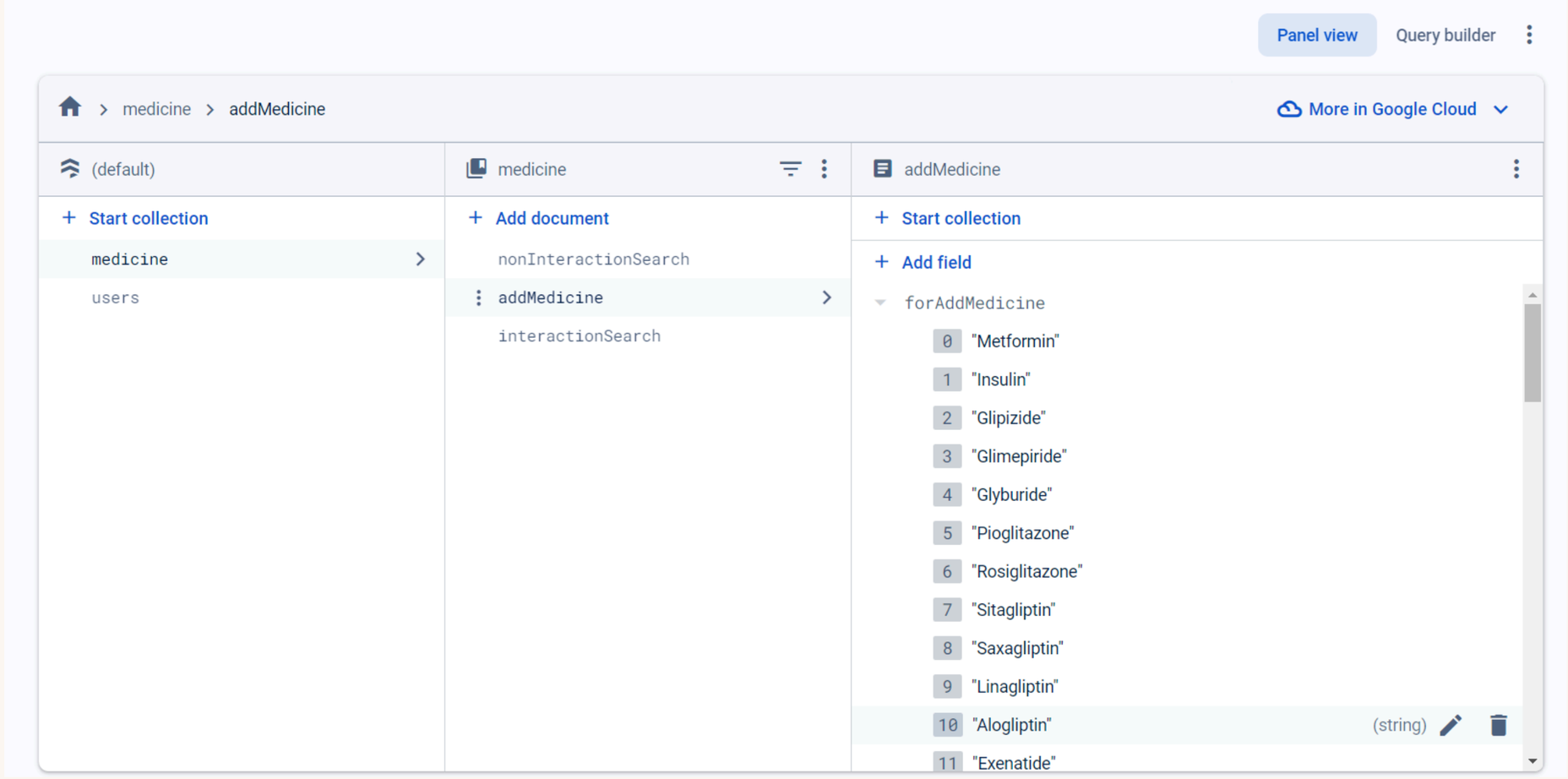
Database Implamantion



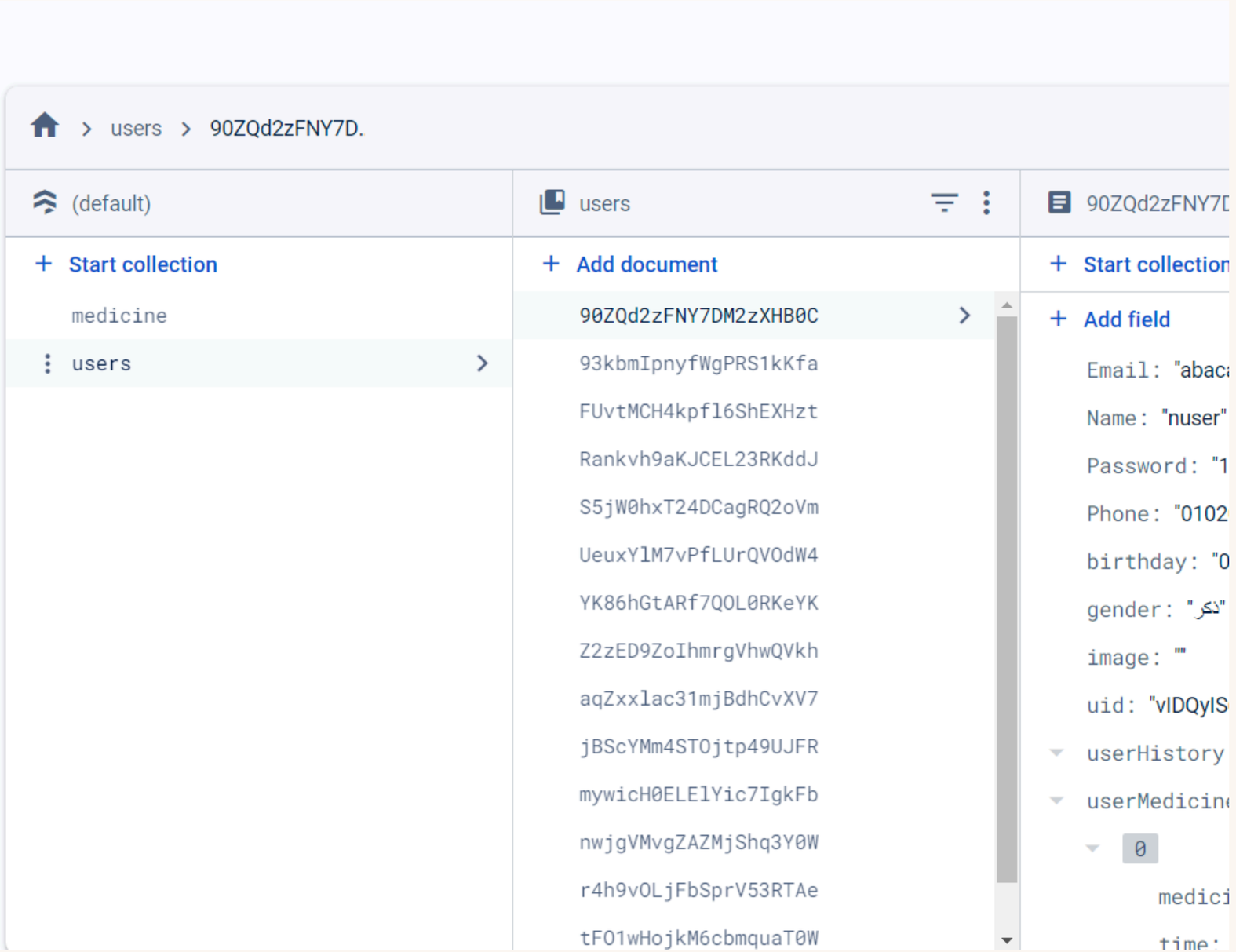
Database Implamantion



Database Implamantion

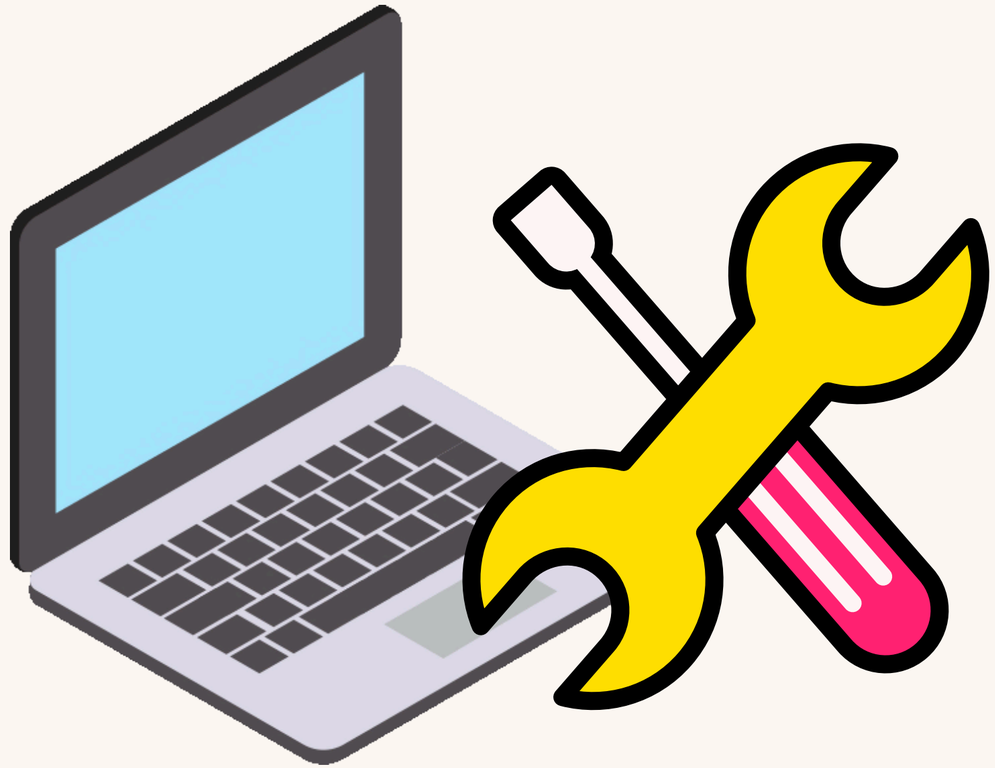


Database Implamantion



PROJECT TOOLS

- Visual Studio Code
- Android Studio
- Click-Up
- Figma
- Flutter
- Lucid Chart
- Firebase



REFERENCES

1-Drug-Drug Interactions: Mechanisms and Implications for Drug Therapy" by T. E. Sheiner, B. Rosenberg

2-Drug Interactions: Analysis and Management" by Philip D. Hansten and John R. Horn

3-DrugBank

- Website: DrugBank
- A comprehensive resource that combines detailed drug data with drug-target and drug interaction information

4-FDA Guidance on Drug Interaction Studies

- Website: FDA Guidance
- Provides guidance on the study design, data analysis, and clinical implications of drug interaction studies.

5-Clinical Pharmacology & Therapeutics

- Publishes articles on the latest research in drug interactions, pharmacokinetics, and pharmacodynamics.

CONCLUSION

In the end, this application seeks to help patients with pressure and diabetes to improve their treatment period and lifestyle.

Enables simplifying medical information to them with ease to ease by touching everything related to their treatment system and what affects it from the rest of the diseases, medicines, food and even daily work.

The application is rich with a lot of information. which leads to Increasing medical and health awareness in the community.

And as sald "Prevention is always better than a cure".


THANK
YOU