Android-Based Medical Hub App

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Group: Mobile App Developer (QAL1_SWD4_M1e) - 2904

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URLs:

Trello: https://trello.com/b/5XWlDSCz/depi-final-project-team

GitHub: https://github.com/mohamedsaber93/Medical-Hub

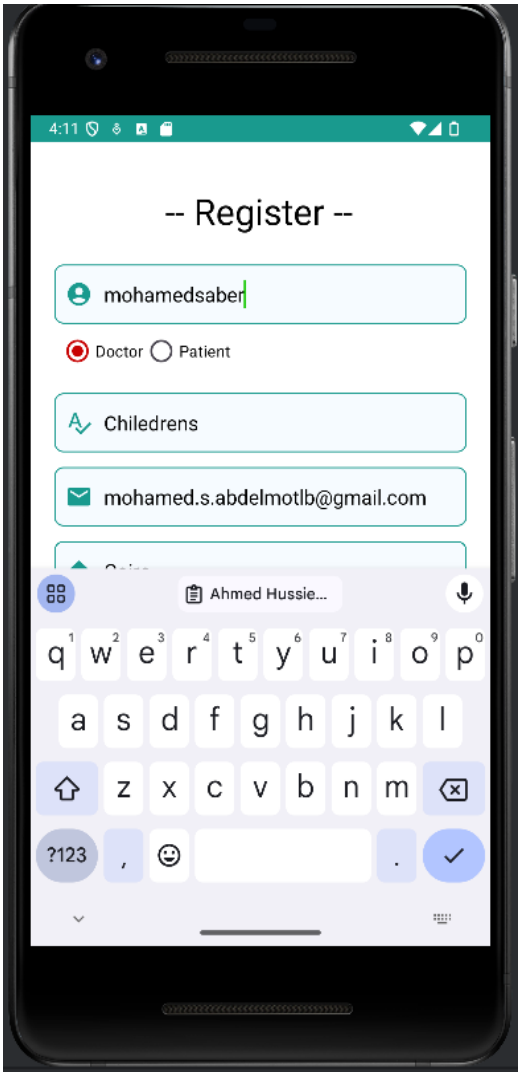
Introduction

The app is built with Kotlin.
It establishes a simple communication channel between doctors and patients.
Features include saving patient history and streamlining communication to save time.

Data Is Saved on API-Server, users can’t lose his/her history!

Sign-up & Login

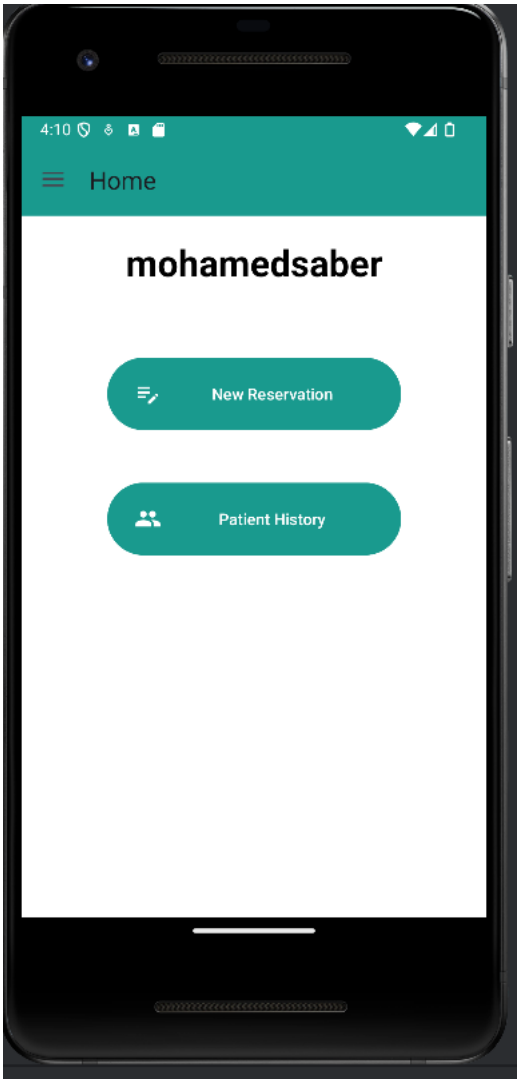
Users (patients or doctors) can create and log in to their accounts.
Authentication is based on national ID and password.
Patients and doctors have different interfaces tailored to their roles.



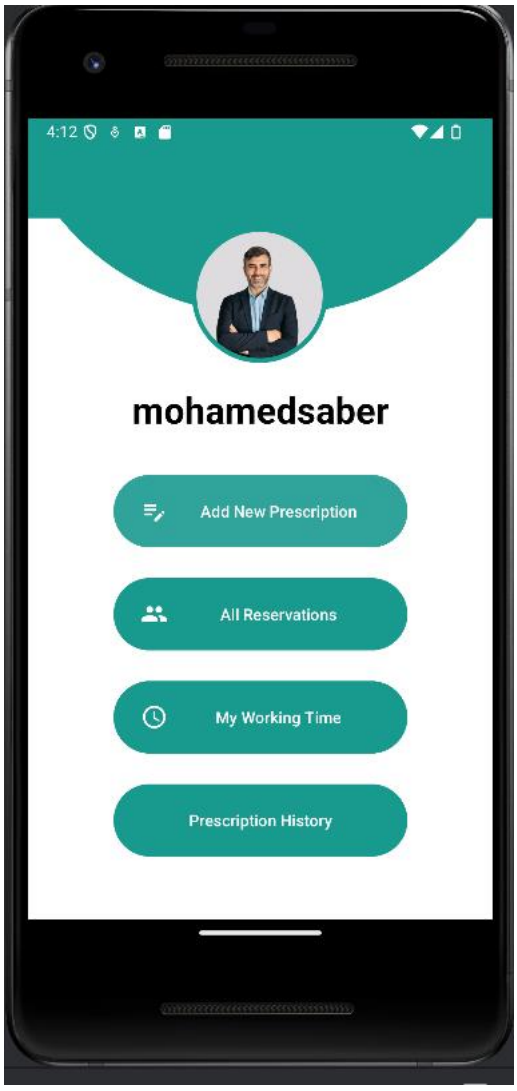
Patient & Doctor Interfaces

- **Patient**: View medical history or make new reservations easily.
- **Doctor**: Set availability, write instructions for patients, manage time, and access patient records.

Patient Interface



Doctor Interface



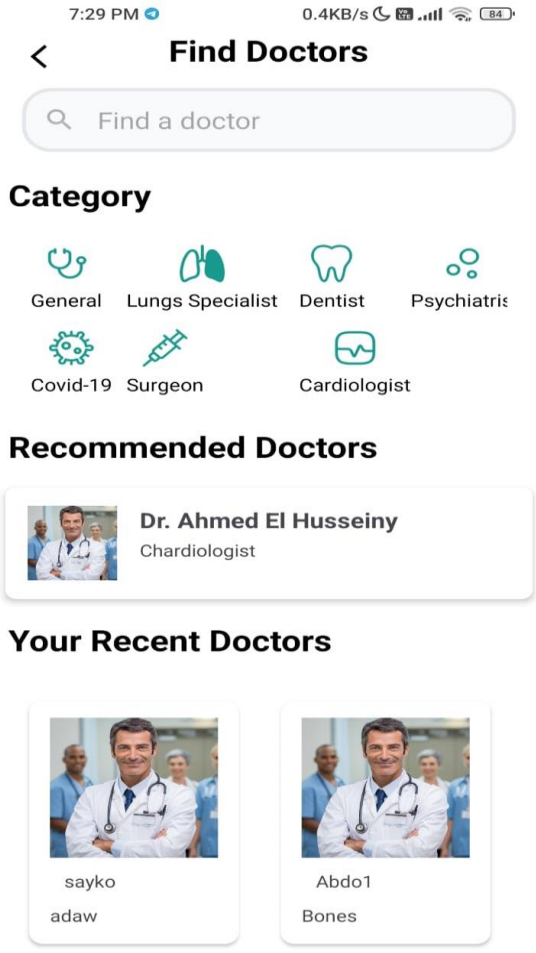
Smart Reservation System

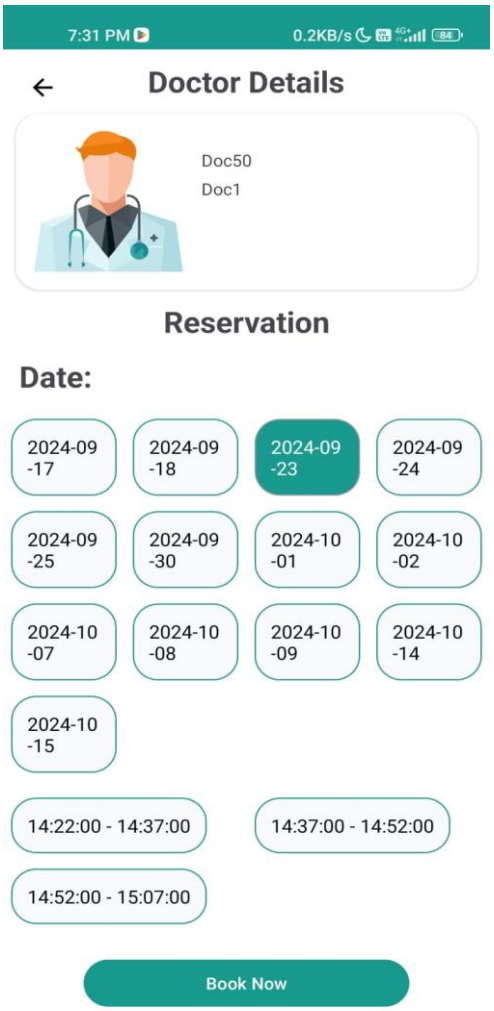
Patients can easily find doctors by specialization.

Select the desired time slot and book with just a few clicks.

The process is intuitive, fast, and ensures seamless scheduling.

Designed to enhance user experience and minimize booking effort.

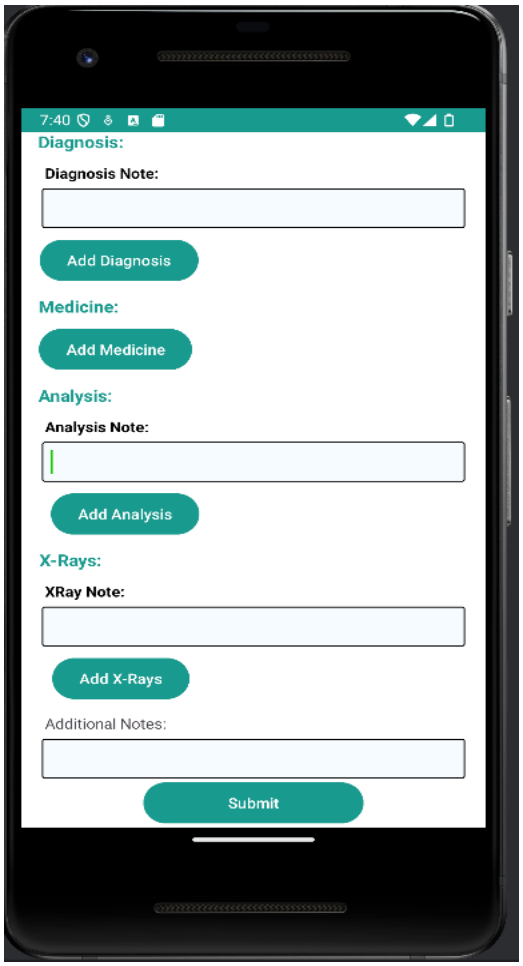


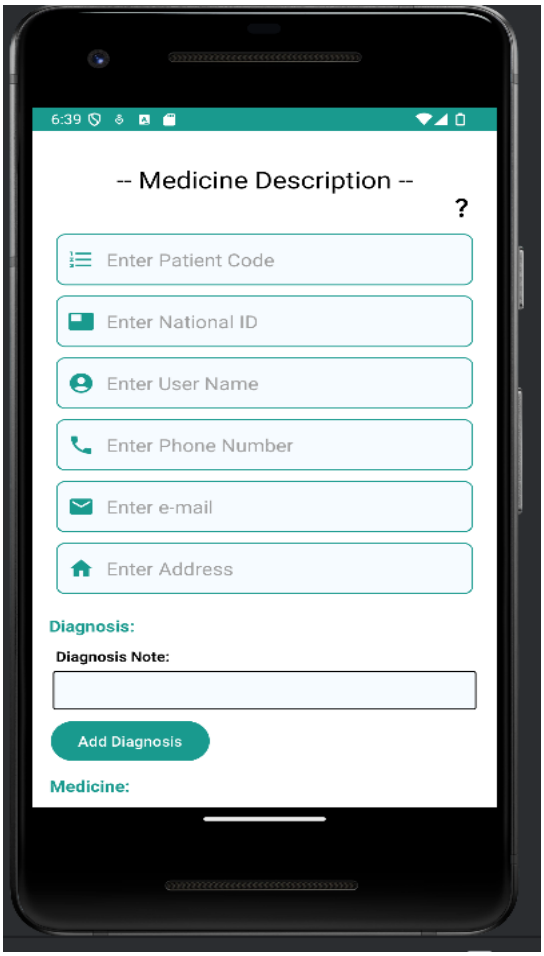


Medical Prescriptions

Doctors can prescribe medicines with detailed notes.

Patients receive instructions immediately in the app.





Project Summary

This Medical Hub App simplifies interaction between doctors and patients.
It ensures better time management, stores patient history, and provides timely access to prescriptions.
Built entirely with **Kotlin**, the app leverages the following modern technologies:

- **Retrofit**: For API communication
- **MVVM Architecture**: For maintainable code structure
- **Data Binding**: For efficient UI updates
- **Fragments**: For modular and reusable screens
- **Coroutines**: For smooth asynchronous operations

This combination offers a user-friendly and efficient experience tailored to meet the needs of both doctors and patients.


Thank You