

Patient Management Mobile Application

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Android application to assist Doctor's for patient data management and viewing. The doctor can easily add new patient's info as well as track the patient medical history at any given point of time all in his android mobile phone.

- It is implementation of an android application for patient data management and viewing.
- The system is aimed to help doctors to add new patient personal information and update the medical condition each time he visits.
- The doctor can use the application to get all the past medical history of that particular patient at any given point of time.
- The doctor can also check on all the patients he treated for any particular day of the calendar.

- Doctor can add a new patient, his personal information, medical information and also he can insert new medical conditions into the existing patient's medical records.
- The application allows doctor to insert various data fields regarding a patient including patient name, contact information, age, blood group, gender, medical condition, medication provided, date of visit.
- The doctor may now view this data as and when needed. The application allows doctor to search patients by name which displays all his medical conditions and the medication received in a chronological order starting from most recent visit.

- Android SDK
- Android-Studio
- Android Phones: HTC One, Nexus 5x, Moto G devices used to test the application
- SQLite
- Star UML

Table 1: Doctor

login	password
varchar	varchar

Table 2: Patient

Fname	Lname	Email	Mobile	Address	Age	Bloodgroup
Varchar	Varchar	Varchar	Varchar	Varchar	Number	Varchar

Table 3: Medical_History

email	date_of_visit	condition	medication	note
varchar	date	varchar	varchar	varchar

Use Case Diagram

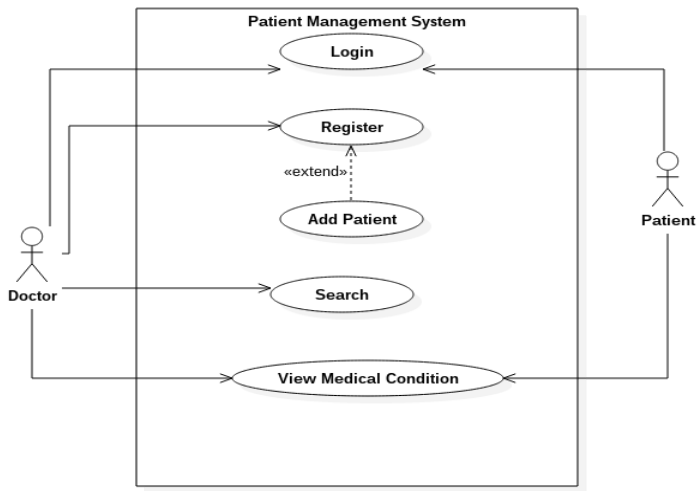
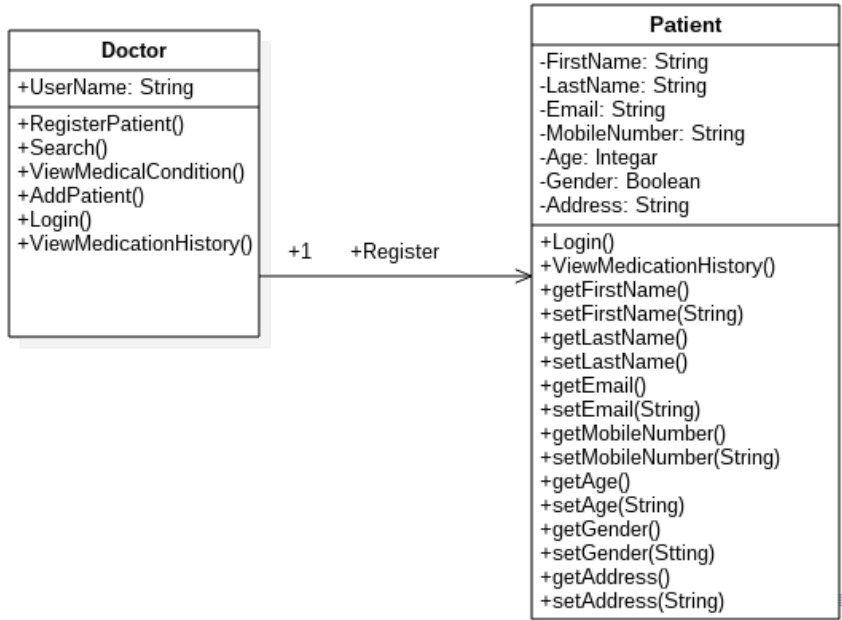


Figure 1: UseCase Diagram.

Class Diagram



Sequence Diagram

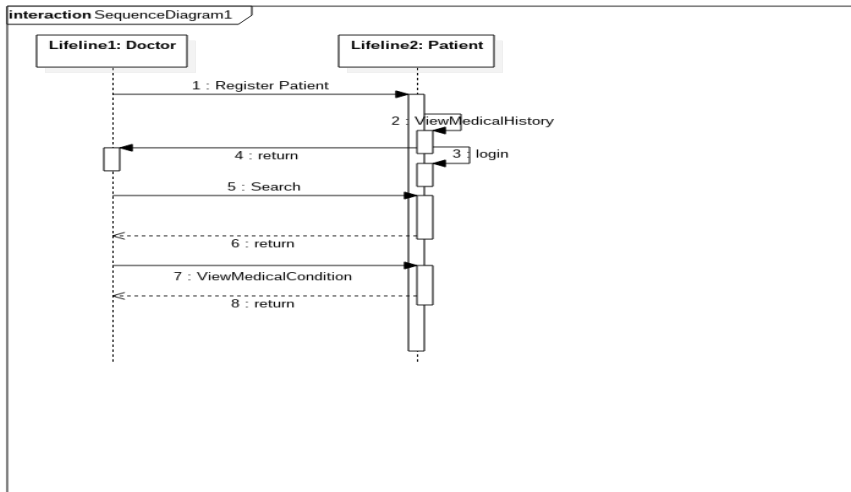
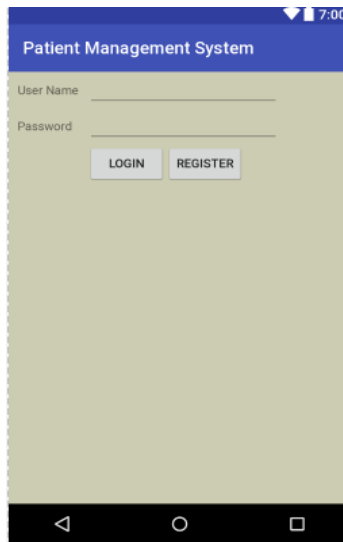


Figure 3: Sequence Diagram.



The image shows a mobile application interface for a "Patient Management System". At the top, there is a blue header bar with the title "Patient Management System". Below the header, the screen has a light beige background. There are two input fields: "User Name" and "Password", each followed by a horizontal line for text entry. Below these fields, there are two buttons: "LOGIN" and "REGISTER". The "LOGIN" button is on the left and the "REGISTER" button is on the right. At the bottom of the screen, there is a black navigation bar with three white icons: a triangle, a circle, and a square. The top status bar shows a signal strength indicator, a battery icon, and the time "7:00".

Figure 4: Login

Register

Patient Management System

User Name

Password

Registration Code

REGISTER

Figure 5: Register

Doctor's Menu

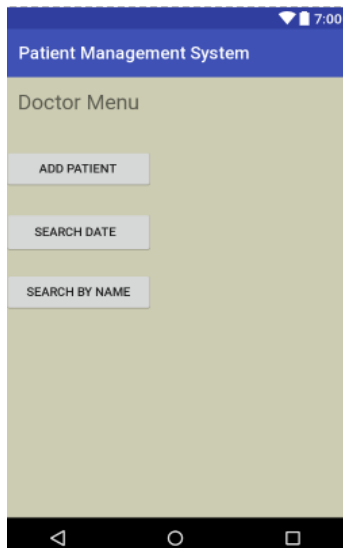


Figure 6: Doctor's Menu

Add Patient

Patient Management System

Add Patient

First Name

Last Name

Email

Mobile

Age

Blood Group

Gender

SAVE AND PROCEED

Figure 7: Add Patient

Patient Management System

Medical Input

Condition

Medication

Enter Note

SAVE

Figure 8: Medical Input

Search by Name

Patient Management System

Searach By Name

First Name _____

Last Name _____

SEARCH

Figure 9: Search by Name

Search by Date

Patient Management System

Search By Date

Date Of Arrival

SEARCH

Figure 10: Search by Date

Test Cases: Login

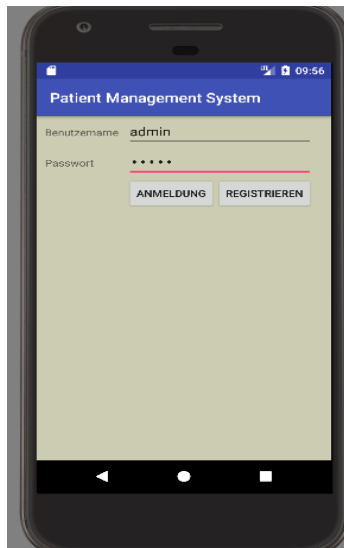


Figure 11: Initial Login Screen

Test Case: Invalid Registration Code

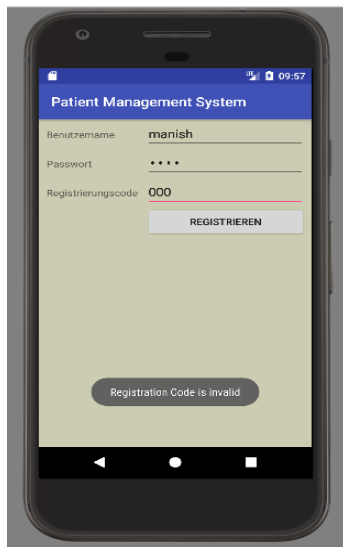


Figure 12: Invalid Registration Code

Test Case: Inactive Registration Code

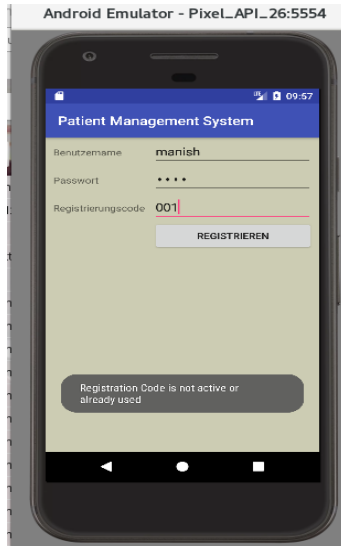


Figure 13: Inactive Registration Code

Test Case: Normal User Screen

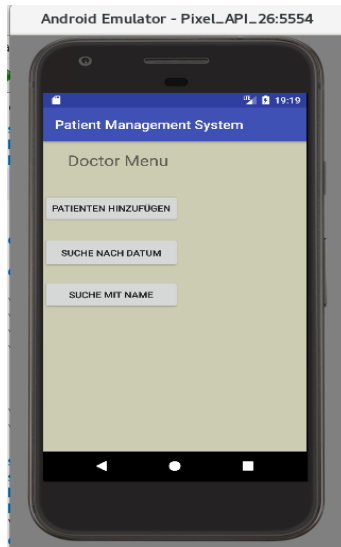


Figure 14: Normal User Screen

Test Case: Admin User Screen

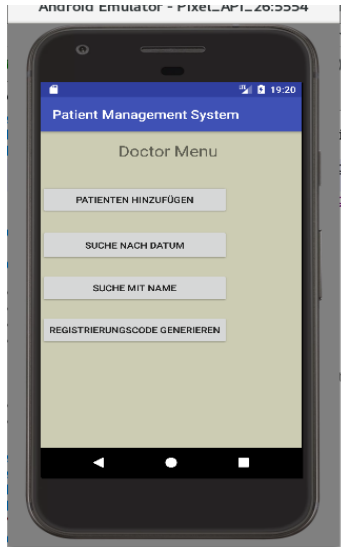


Figure 15: Admin User Screen

Test Case: Add Patient



Figure 16: Add Patient Success

Test Case: Add Duplicate Patient

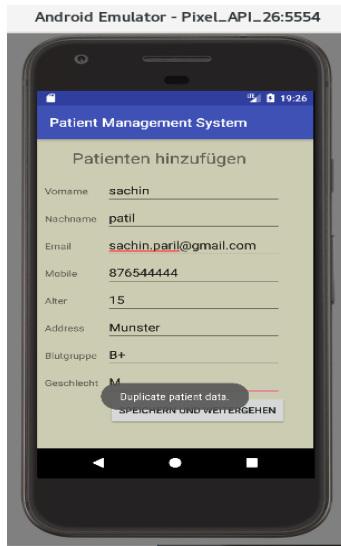


Figure 17: Add Duplicate Patient

Test Case: Search Patient By Name

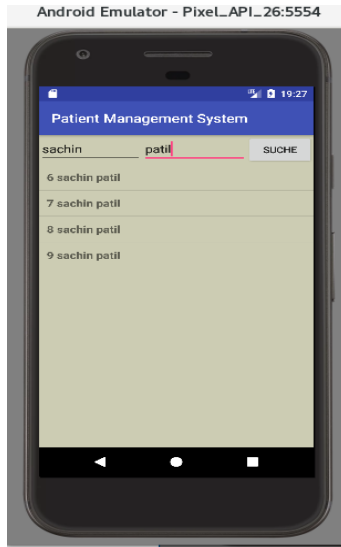


Figure 18: Search Patient By Name

Q&A