

Patient Management Mobile Application

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July 21, 2017

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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

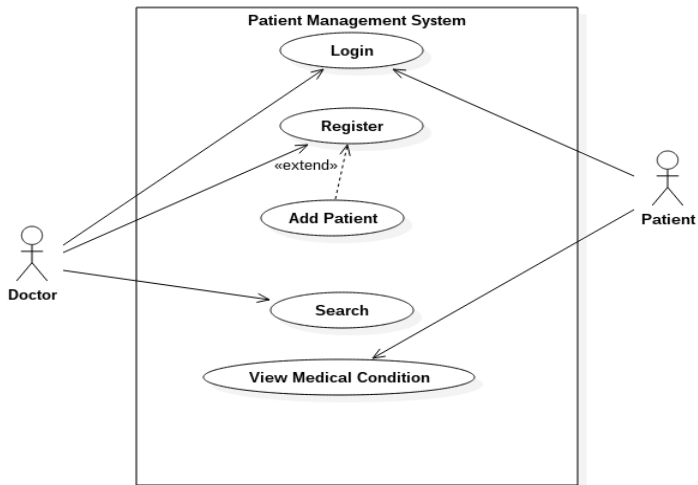


Figure 1: UseCase Diagram.

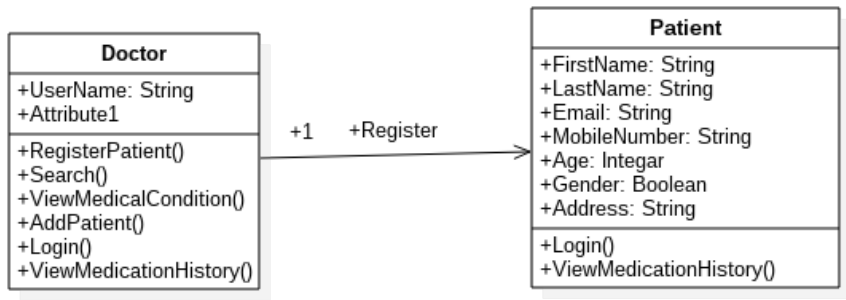


Figure 2: Class Diagram.

Sequence Diagram

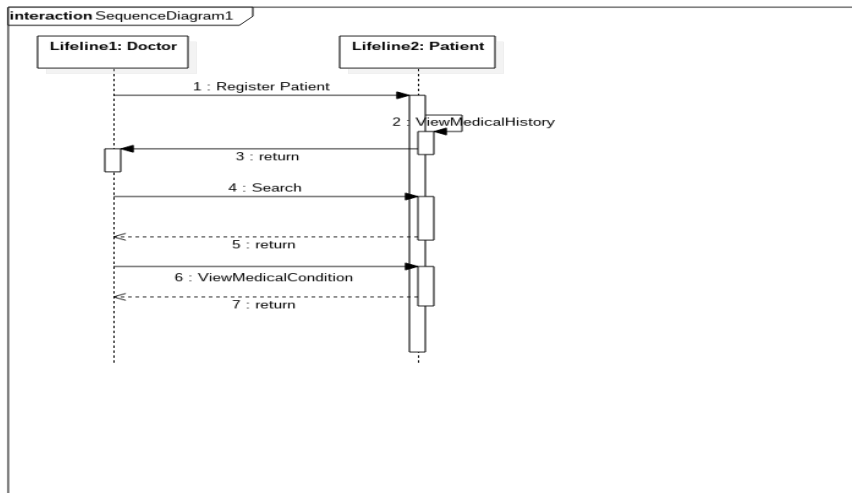


Figure 3: Sequence Diagram.

PatientManagementSystem

Enter UserName

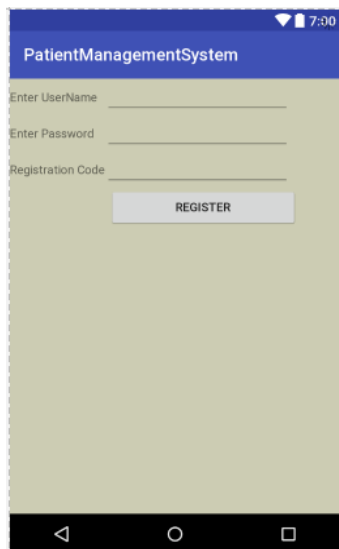
Enter Password

Registration Code

REGISTER

Figure 4: Login

Register



The screenshot shows a mobile application interface for a 'PatientManagementSystem'. At the top, there is a blue header bar with the title 'PatientManagementSystem'. Below the header, the background is a light beige color. The form contains three input fields: 'Enter UserName', 'Enter Password', and 'Registration Code'. Each field is followed by a horizontal line for text entry. Below these fields is a grey rectangular button with the text 'REGISTER' in black capital letters. At the very bottom of the screen is a black navigation bar with three white icons: a triangle pointing left, a circle, and a square.

Figure 5: Register

Doctor's Menu

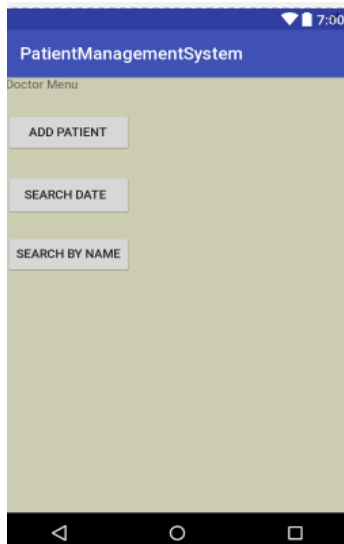


Figure 6: Doctor's Menu

Add Patient

The screenshot shows a mobile application interface for a 'PatientManagementSystem'. The title bar is blue with the text 'PatientManagementSystem' in white. Below the title bar, there is a section titled 'Add Patient'. The form contains the following fields:

- First Name
- Last Name
- Email
- Mobile
- Age
- Blood Group
- Gender
- Gender

At the bottom of the form is a button labeled 'SAVE AND PROCEED'. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

Figure 7: Add Patient

Medical Input

PatientManagementSystem

Medical Input

Condition

Medication

Enter Note

SAVE

Figure 8: Medical Input

Search by Name

The screenshot displays a mobile application interface for a 'PatientManagementSystem'. At the top, a blue header bar contains the title 'PatientManagementSystem'. Below the header, the text 'Serach By Name' (note the typo) is displayed. There are two input fields: 'First Name' and 'Last Name', each followed by a horizontal line for text entry. Below these fields is a light gray rectangular button with the text 'SEARCH' in black capital letters. The status bar at the top right shows a Wi-Fi icon, a battery icon, and the time '7:00'. The bottom of the screen features a black navigation bar with three white icons: a back arrow, a circle, and a square.

Figure 9: Search by Name

Search by Date

The screenshot shows a mobile application interface with a blue header bar containing the title "PatientManagementSystem". Below the header, there is a form with two input fields: "Serach By Date" and "Date Of Arrival". A grey button labeled "SEARCH" is positioned to the right of the "Date Of Arrival" field. The background of the form area is a light beige color. At the bottom of the screen, there is a black navigation bar with three white icons: a back arrow, a circle, and a square.

Figure 10: Search by Date

References

Q&A