

Patient Monitoring System (Medi Scape)

Project Increment 4

Team # 12

Team Members:

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"Project Goal and Objectives (REVISED)"

We intend to design a system for the patients having some chronic disease or any minor health condition. It can help the doctor by monitoring his patients online through the application. Patient can tell their symptoms to the doctor and can also give feedback regarding some medication given by the doctor. In this way the doctor can further recommend some medicines or can cut down some based on the results. The benefit of this kind of system is that it is not necessary for the doctor to meet the patient in person to prescribe him medication. If the condition of the patient is not severe then the doctor can prescribe him online.

It will be a mobile application which can be accessed by the doctor as well as patients once they are registered under that doctor. Both doctor and patient will have access to their own accounts. They can talk to the doctor about their condition and can take advice from the doctor. They can also send their pictures showing improvement in their condition to the doctor. The doctor can also prescribe some test to the patient and the patient can take that test from some lab. The patient can share their reports with the doctor. The doctor can view patient's details as well as can check his history. He can also add prescriptions and certain medical advice for the patient. This is an efficient way of communication and doctor doesn't need to be present in person. The database for this application stores the record for all the patients in the hospital. The doctor may view the data anytime whenever needed.

"Significance"

- The web application can be used anywhere by the doctor and the patient.
- Paper based work is reduced.
- Doctor can access any patient report whenever he wants.
- Less human intervention.
- Patient data can be maintained easily.
- Flexible and secured system.
- Data of one patient can be transferred easily from one doctor to another.

"Fourth Increment Report"

Improved UI and Specialized extendable features

Modules:

Doctor registration: Doctor can enter his details and make an account on the application.

Patient registration: Patient can enter his details and make an account on the application.

Doctor Dashboard: The doctor can log in to his account and manage his appointments and chats.

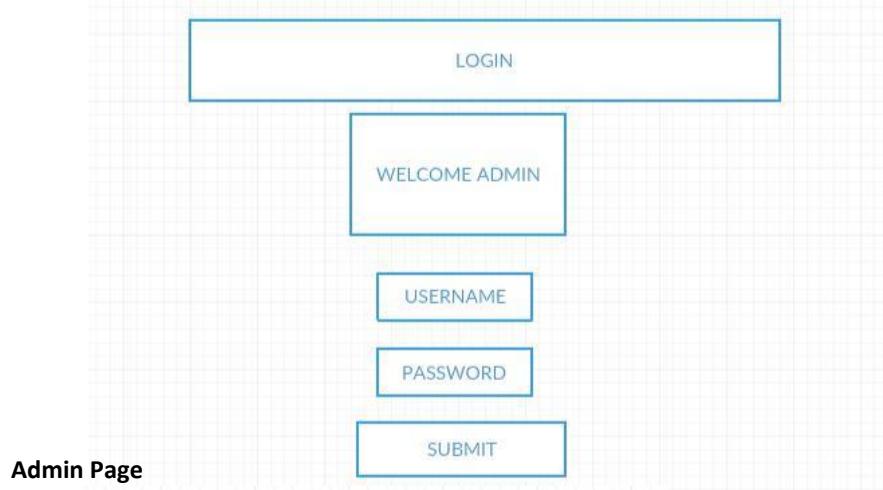
- Personal Information
- Reserve Slot for Appointment
- Add Specialization
- Patient Report
- Give Feedback

Patient Dashboard: The patient can log in to his account and schedule appointments or chat with his doctor about prescriptions and medicines.

- Personal Information
- Book Slot for Appointment
- View Report
- Give Feedback

"Detailed Design of Features (Using Tools)"

Using wireframes



The wireframe shows a top-level "LOGIN" box containing a nested "WELCOME ADMIN" box. Below these are four input fields: "USERNAME", "PASSWORD", and "SUBMIT". The "SUBMIT" button is positioned below the "PASSWORD" field.

Admin Page



The wireframe shows a top-level "WELCOME ADMIN" box containing two blue rectangular buttons. The top button is labeled "Update Doctor" and the bottom button is labeled "Update Patient History".

Admin Dashboard

The screenshot shows a window titled "Hospital Management" with a sub-section titled "Registration Details". The form contains six input fields labeled "Name", "Email ID", "Address", "Contact Number", "Department", and "Password". Below the form are two buttons: "Register" and "Cancel".

Name
Email ID
Address
Contact Number
Department
Password

Register Cancel

Doctor Registration



Hospital Management

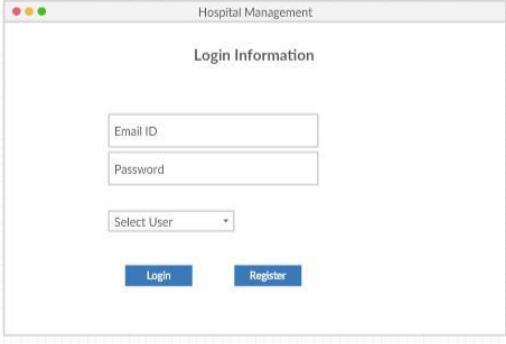
Registration Details

Name
Email ID
Address
Contact Number
Password

Register Cancel

This window is titled "Registration Details" and is part of the "Hospital Management" application. It contains five input fields for user registration: Name, Email ID, Address, Contact Number, and Password. Below the input fields are two buttons: "Register" and "Cancel".

Patient Registration



Hospital Management

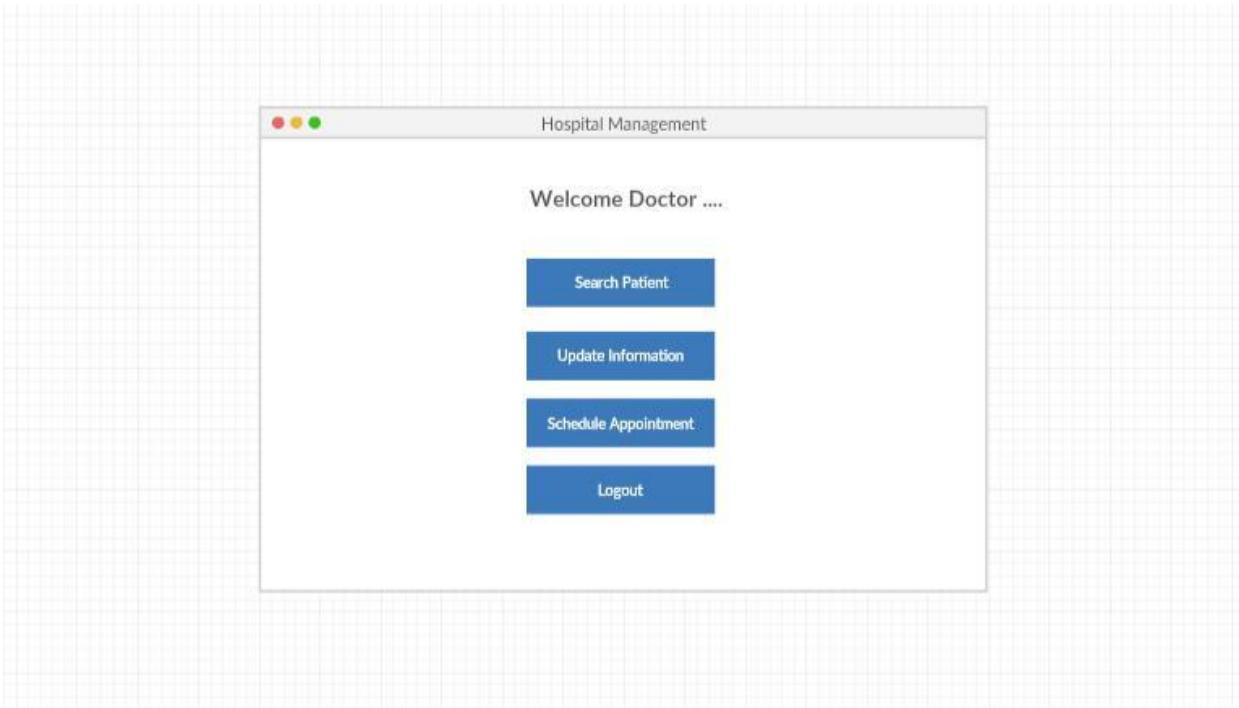
Login Information

Email ID
Password
Select User

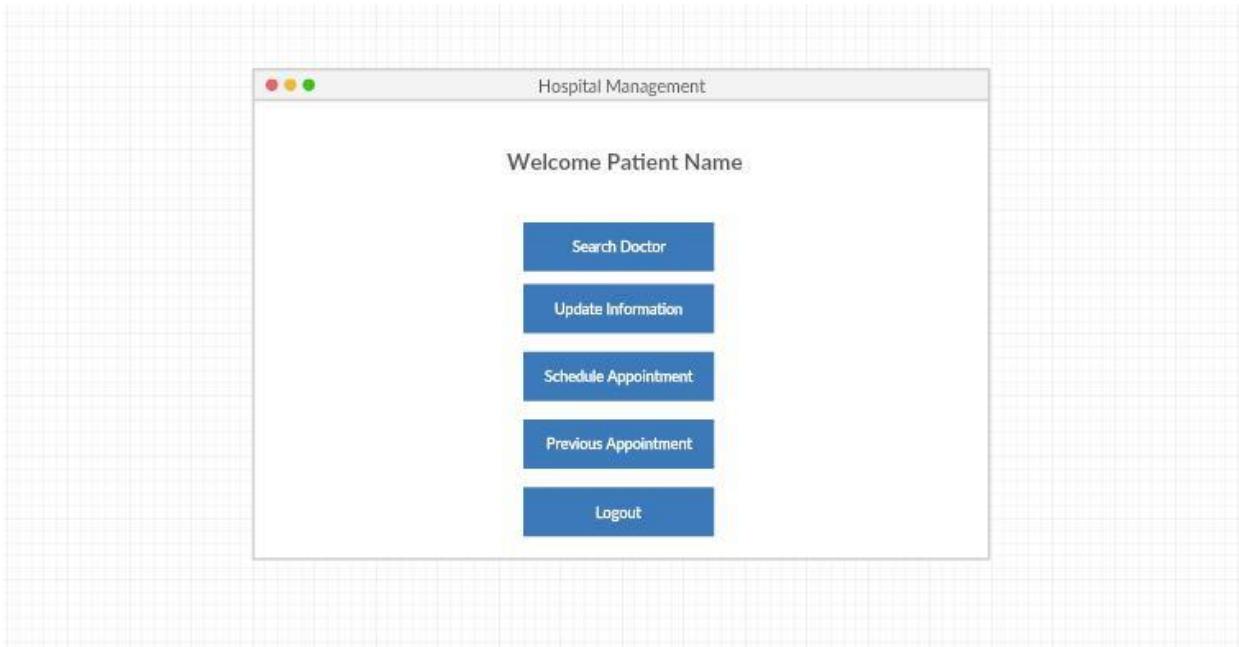
Login Register

This window is titled "Login Information" and is part of the "Hospital Management" application. It contains three input fields: Email ID, Password, and a dropdown menu labeled "Select User". Below the input fields are two buttons: "Login" and "Register".

Login Page

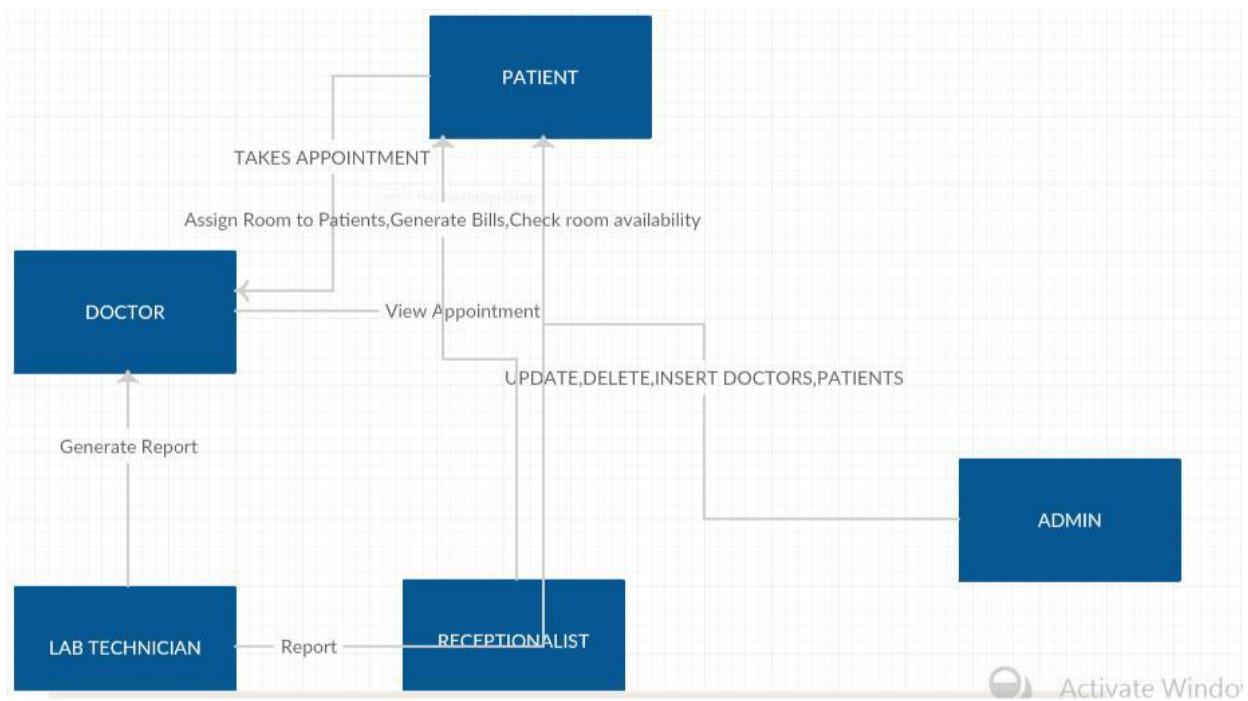


Doctor Dashboard

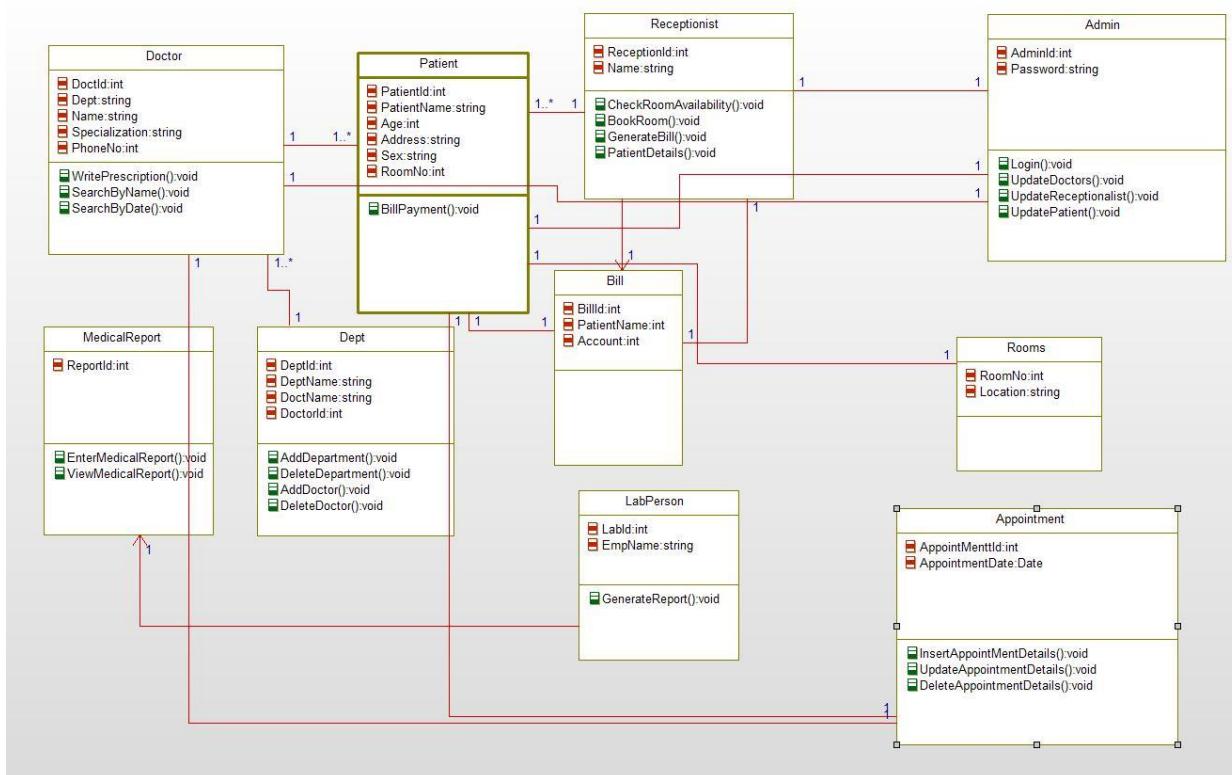


Patient Dashboard

Architecture Diagram



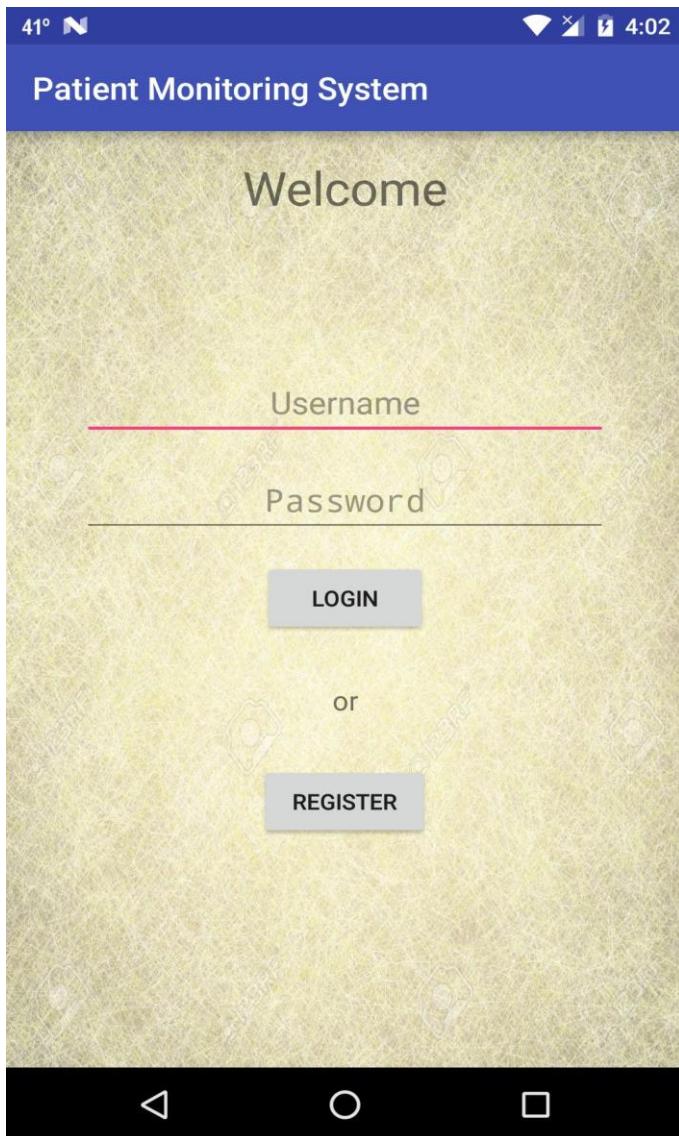
Class diagram



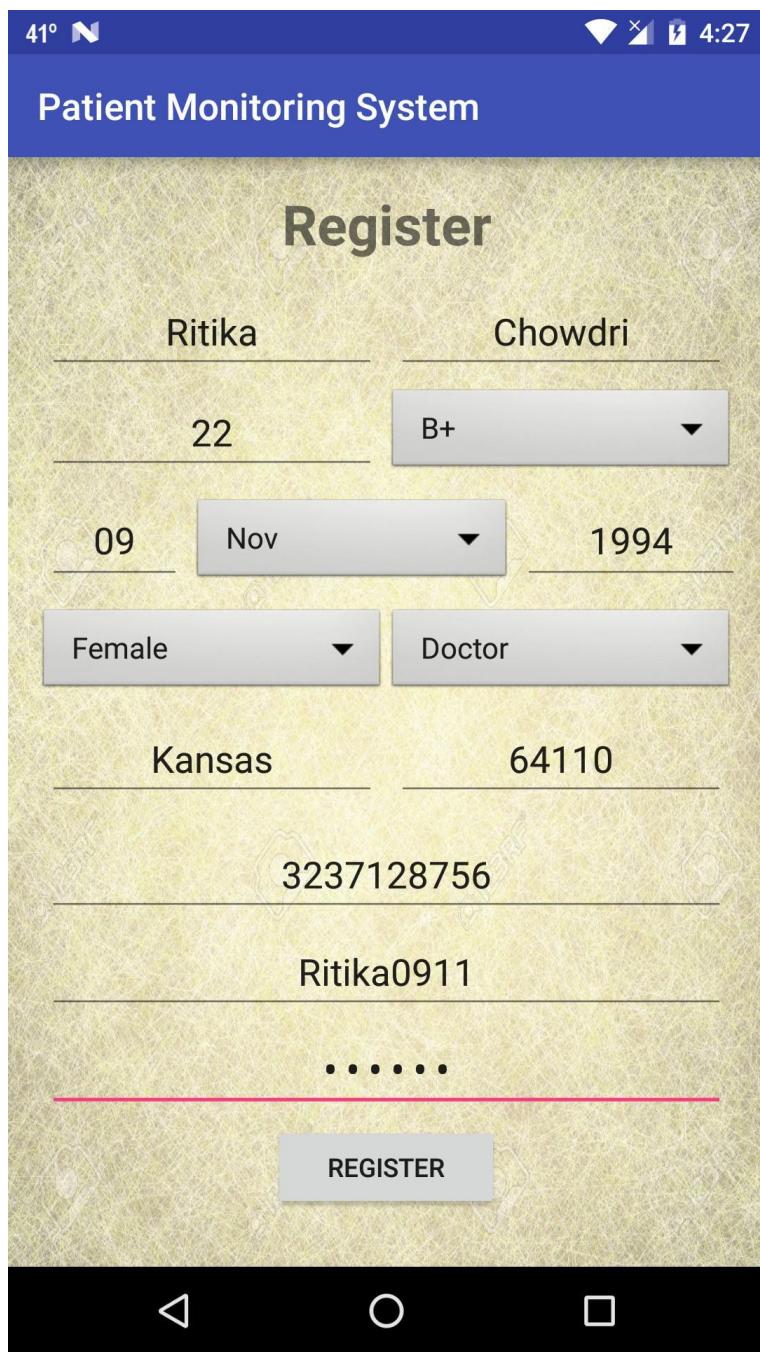
“Implementation and Deployment”

You can find the source code of the Patient Monitoring System on the following link:
<https://github.com/Harmeet0005/ASE-Project/tree/master/Source>

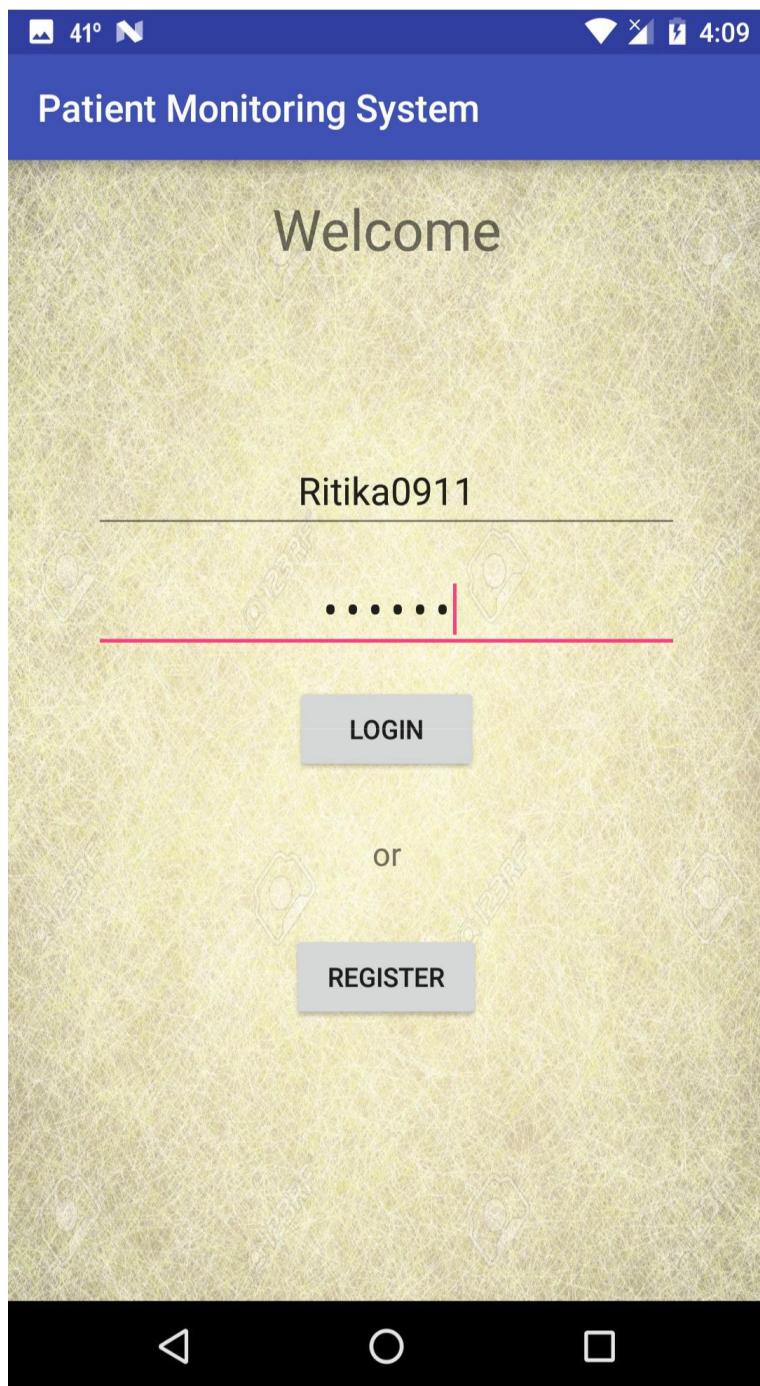
Screenshots after deployment are:



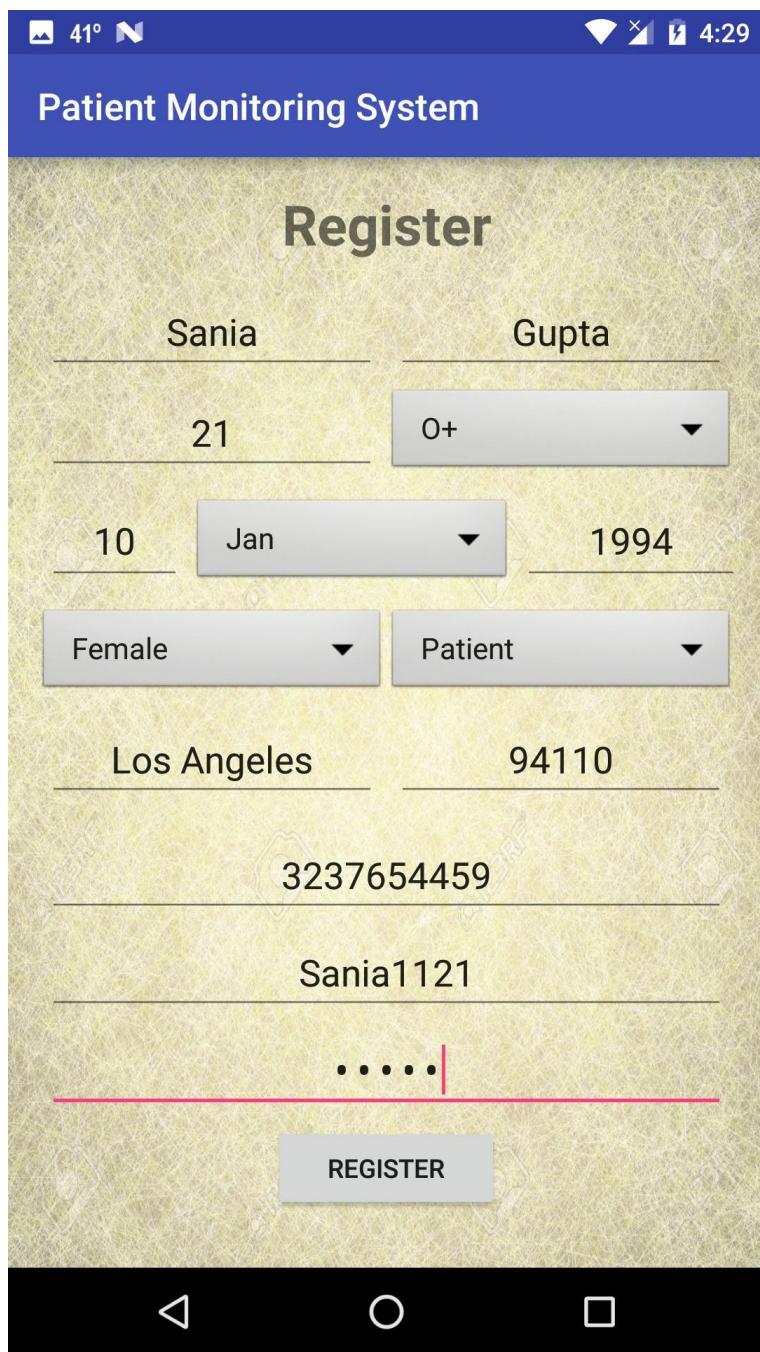
“Home Page”



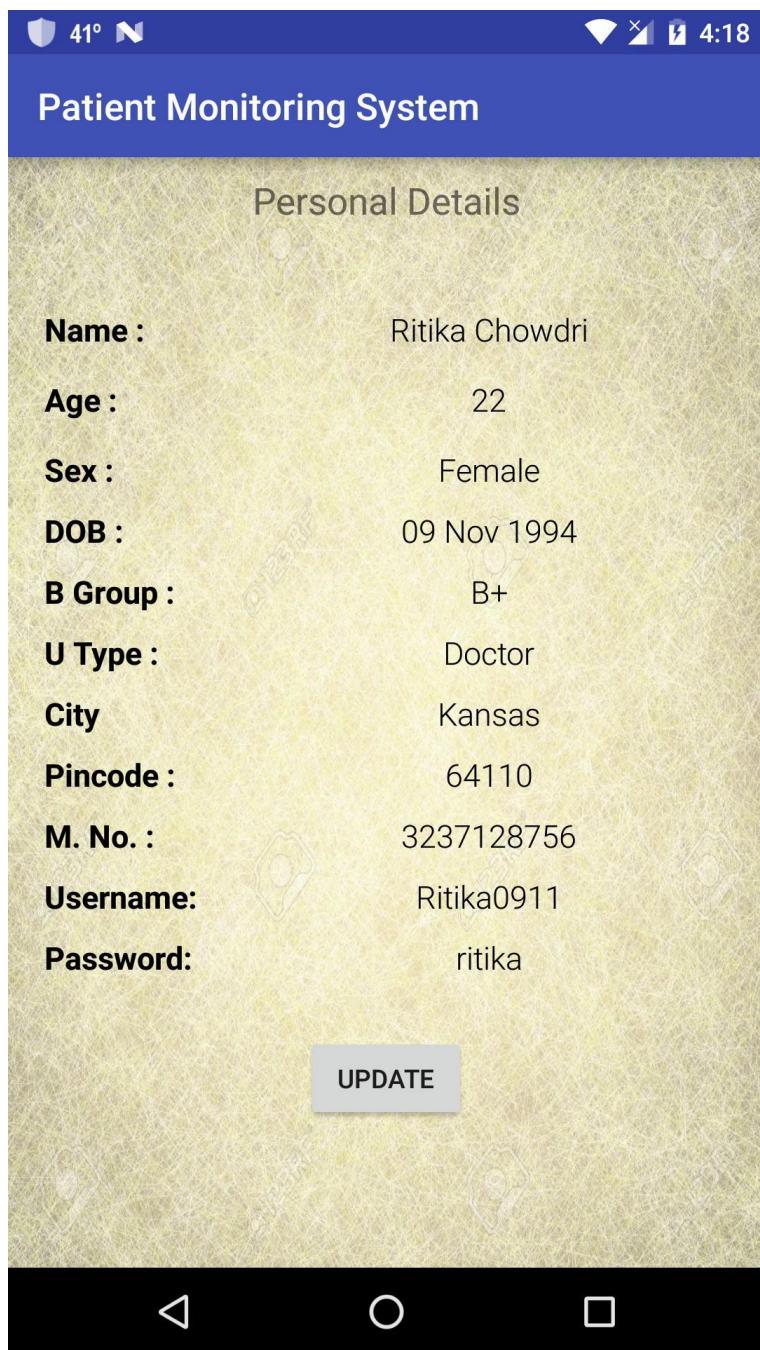
"Doctor Registration"



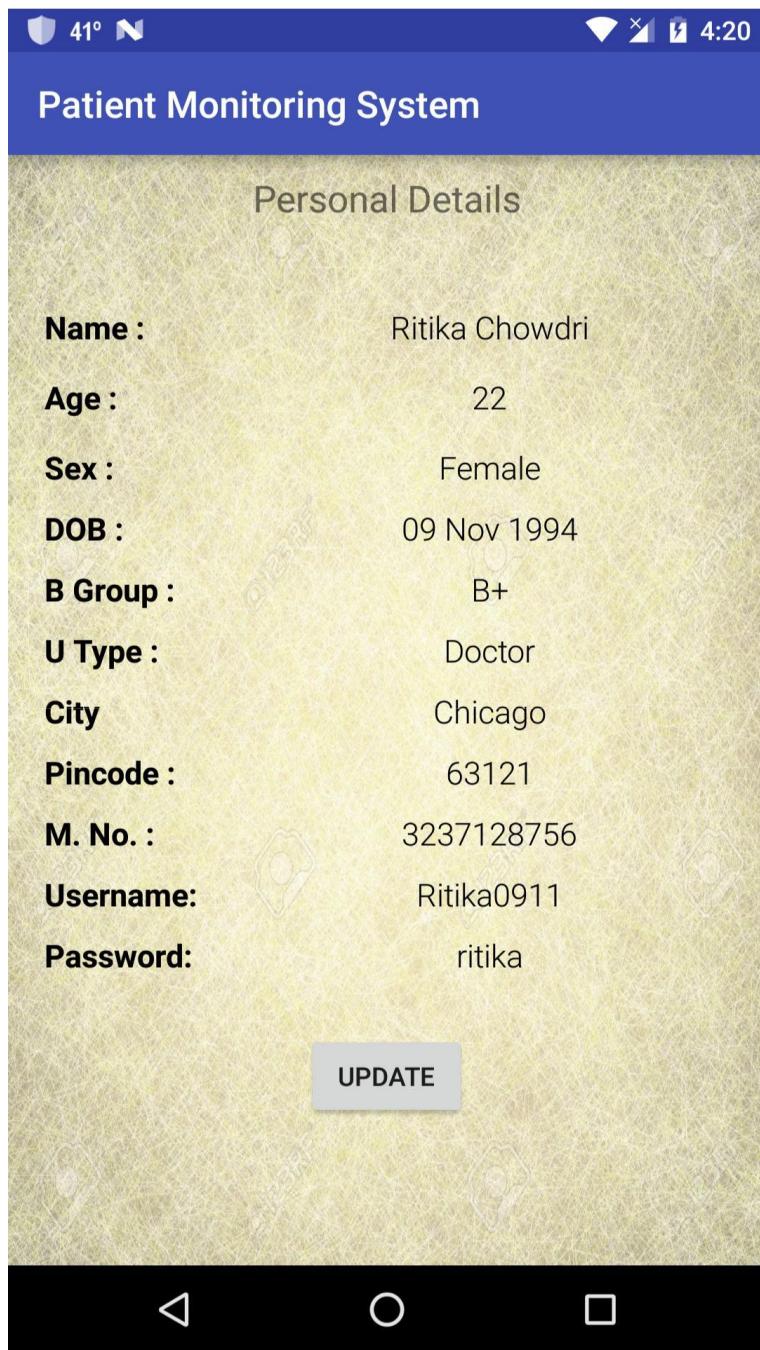
"Doctor Login"



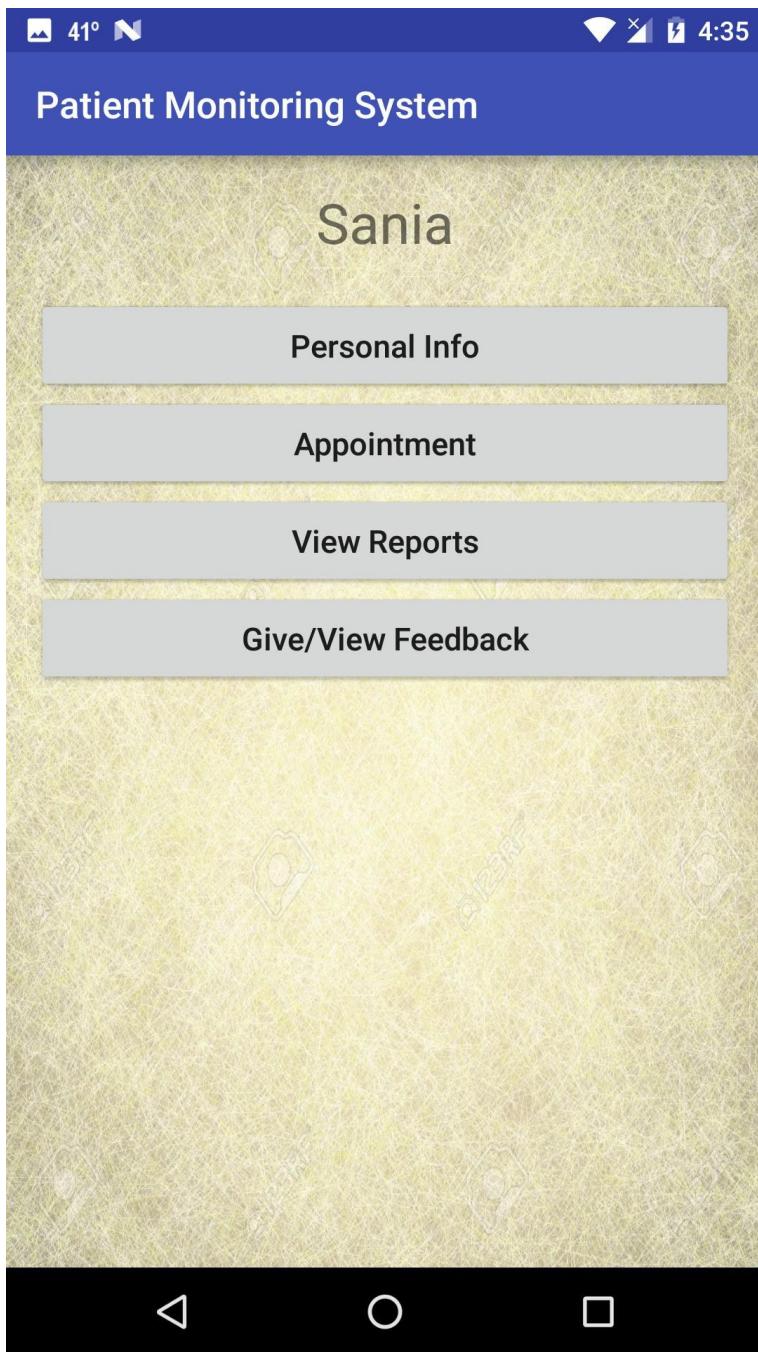
"Patient Registration"



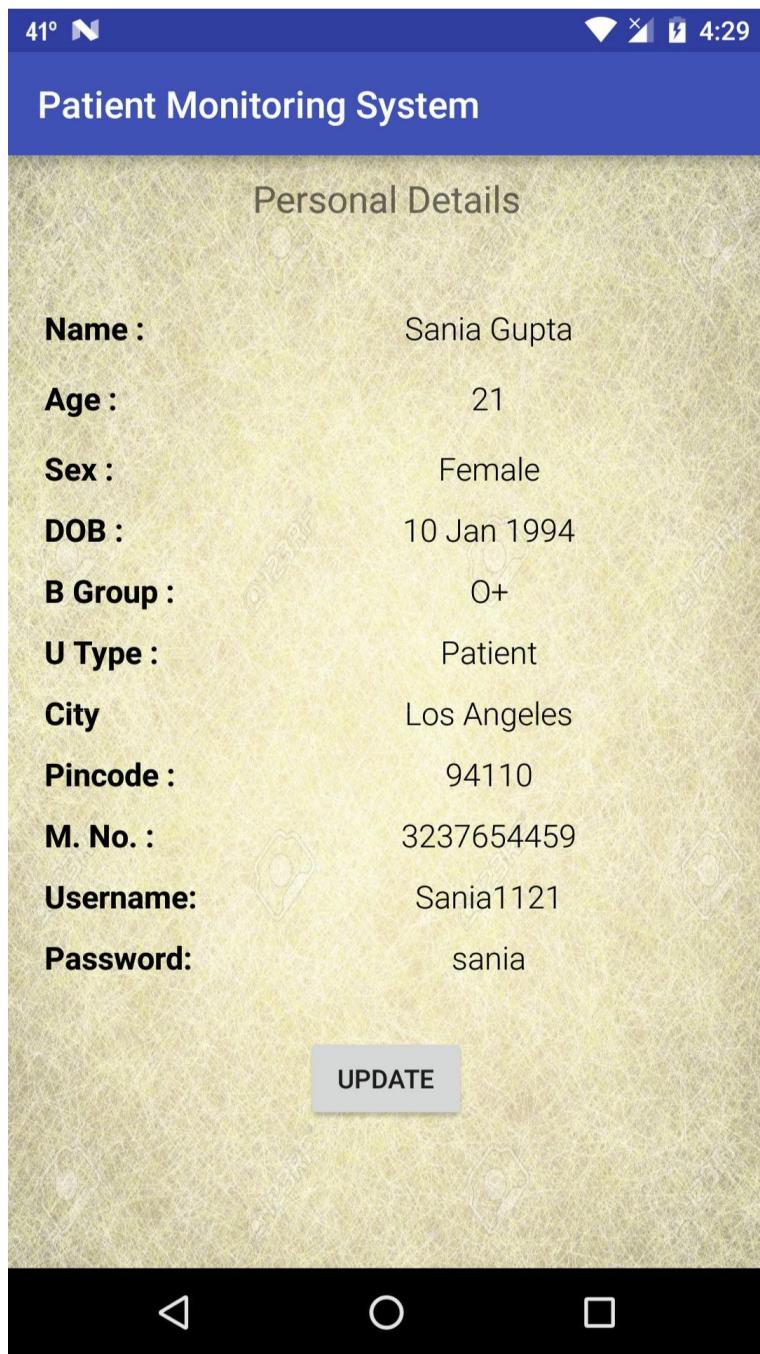
"Display Personal Information"

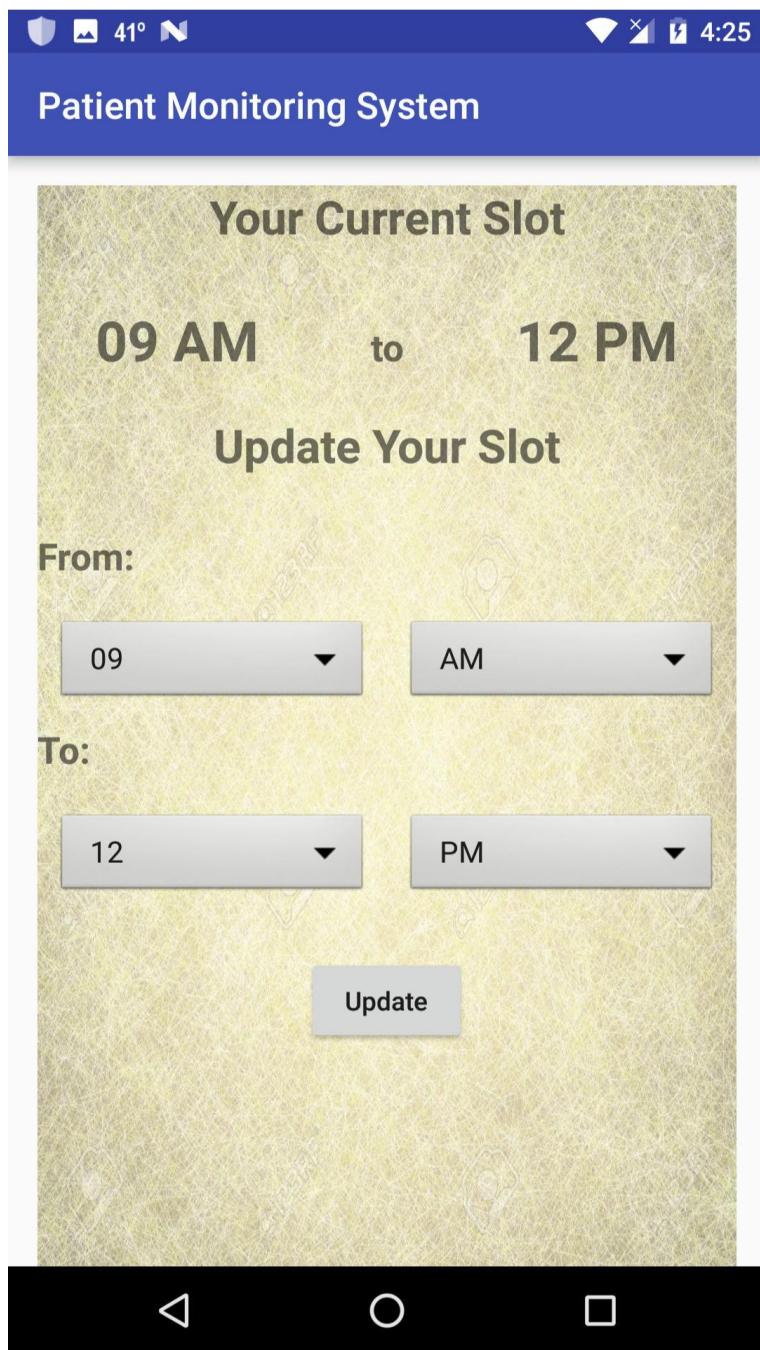


"Update Personal Information"

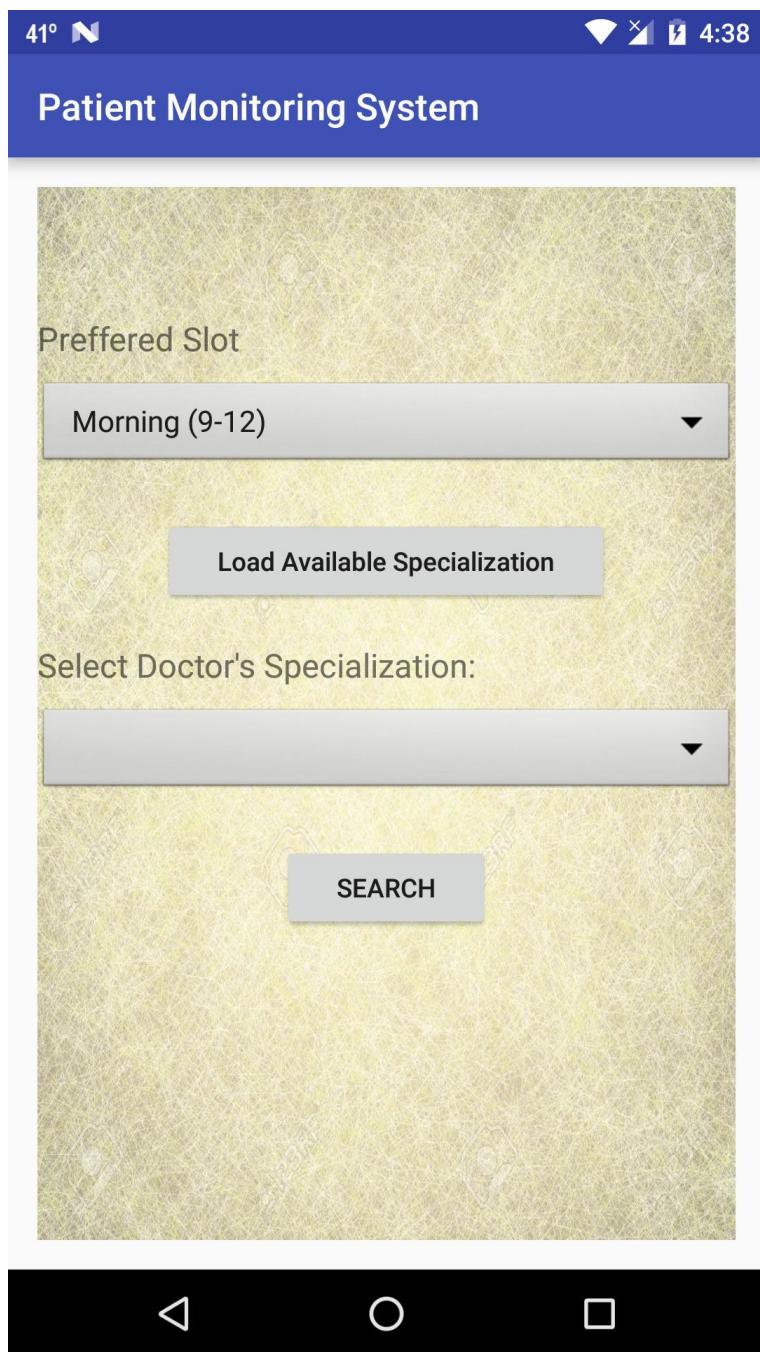


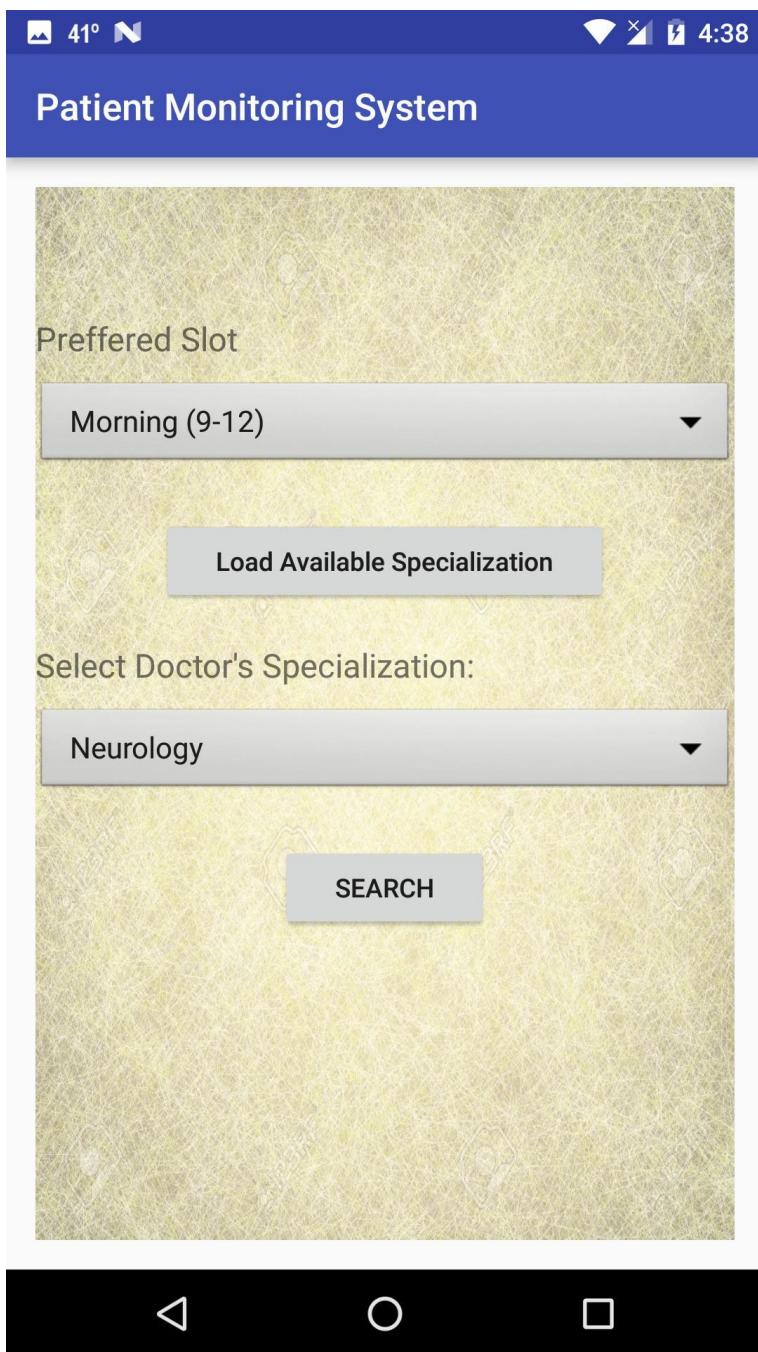
"Patient Dashboard"





"Doctor Appointment Slot"



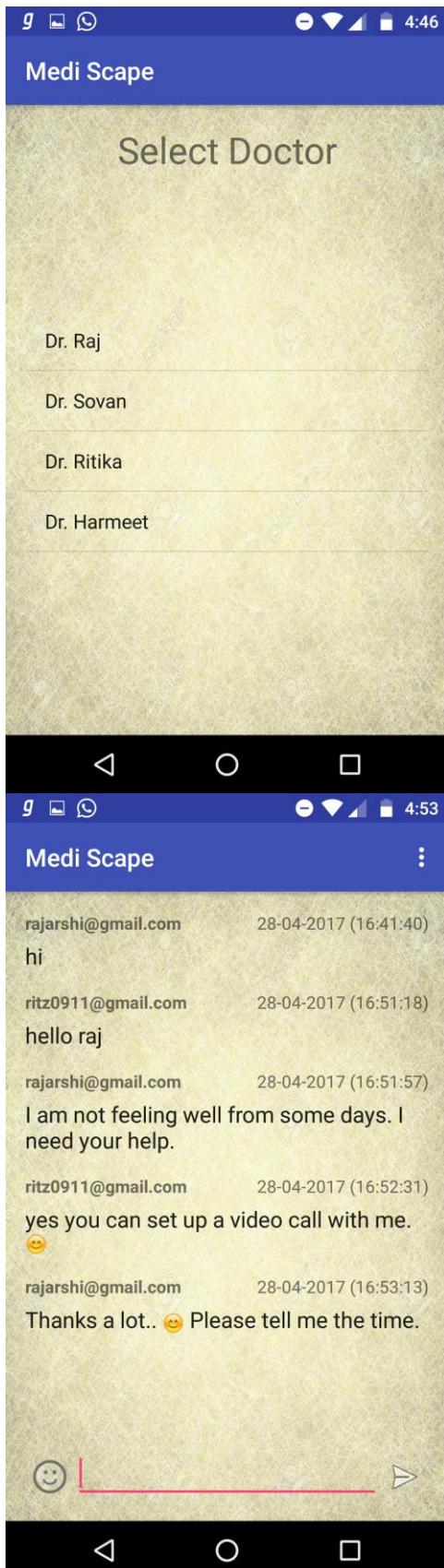


"Doctor Availability"

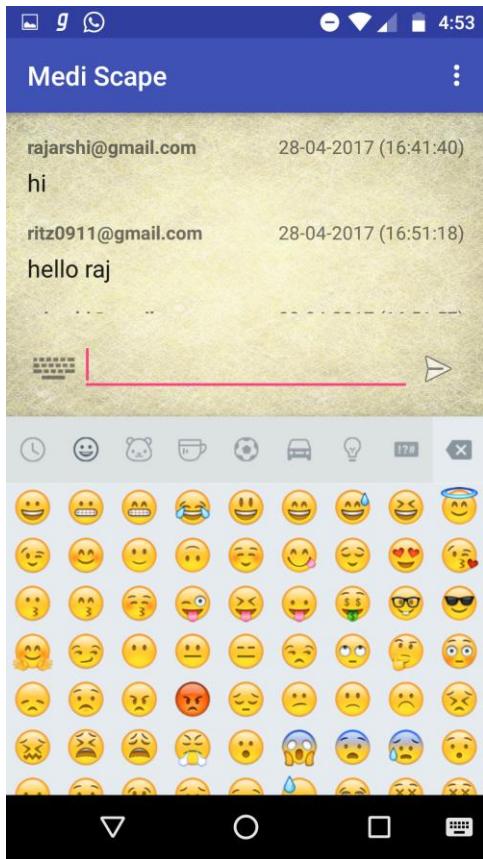


4:42

Medi Scape**Raj****Personal Info****Appointment****View Reports****Chat with Doctor****Video Chat****Search Hospitals****"Chat Option"**



Special Extended Features



Video Chat Extension



5:19

discuss

Logged in as raj



:

Select Doctor to call

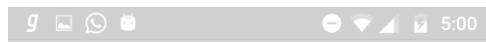


Ritika



sovan



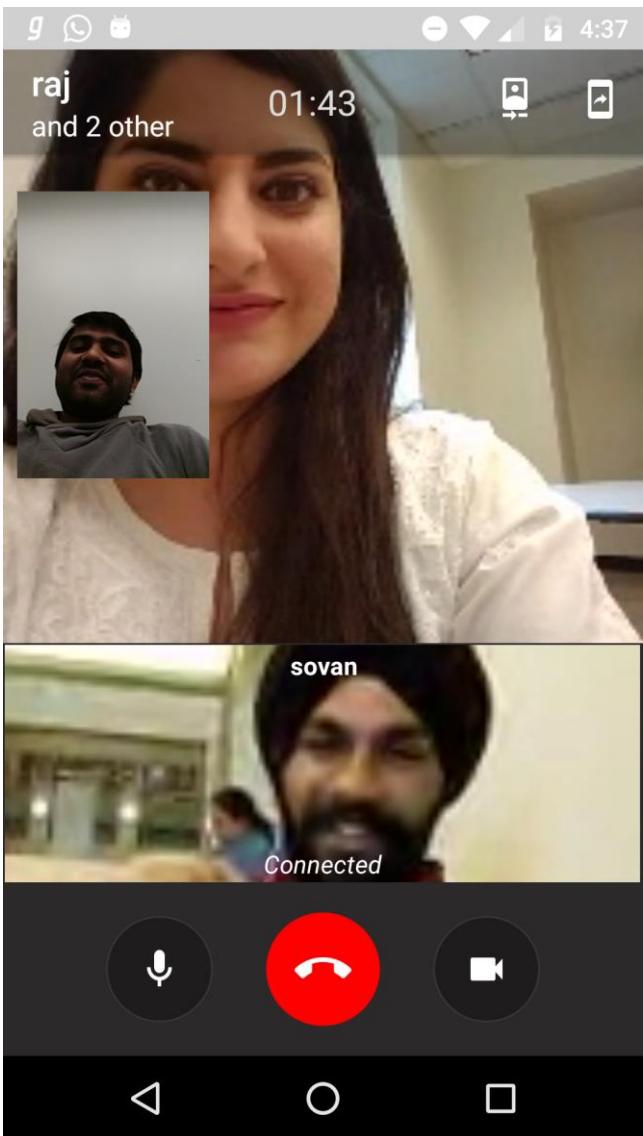


sovan

Incoming Video Call

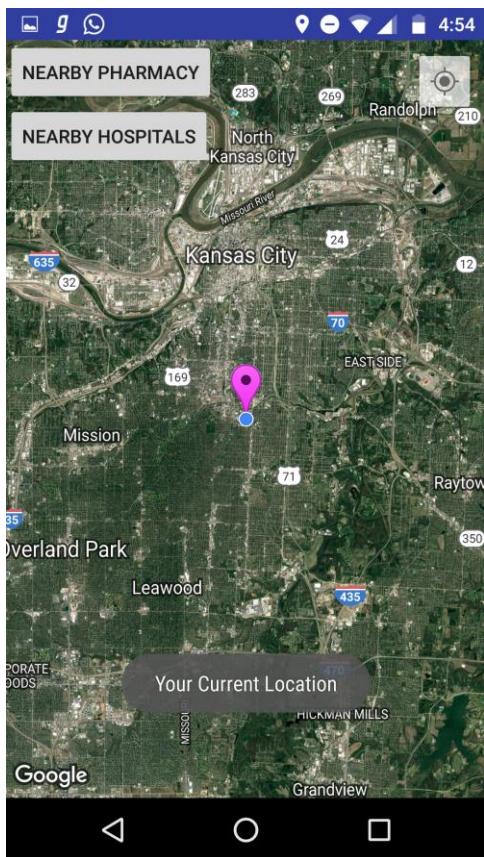


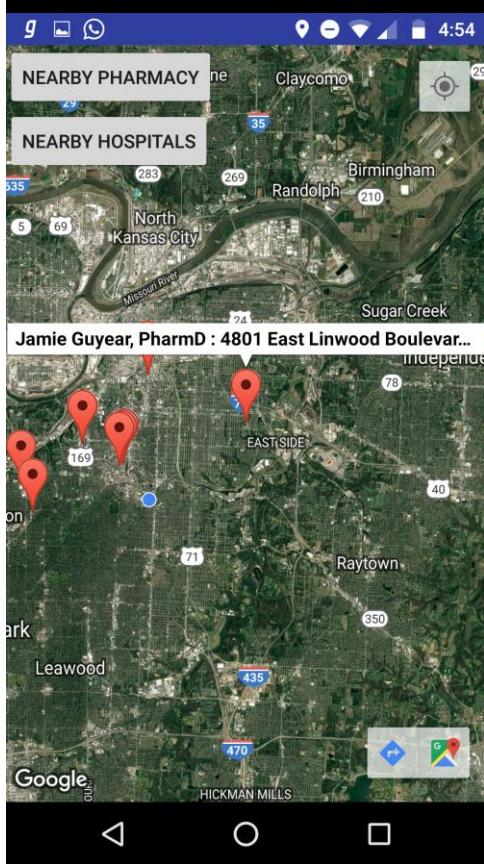
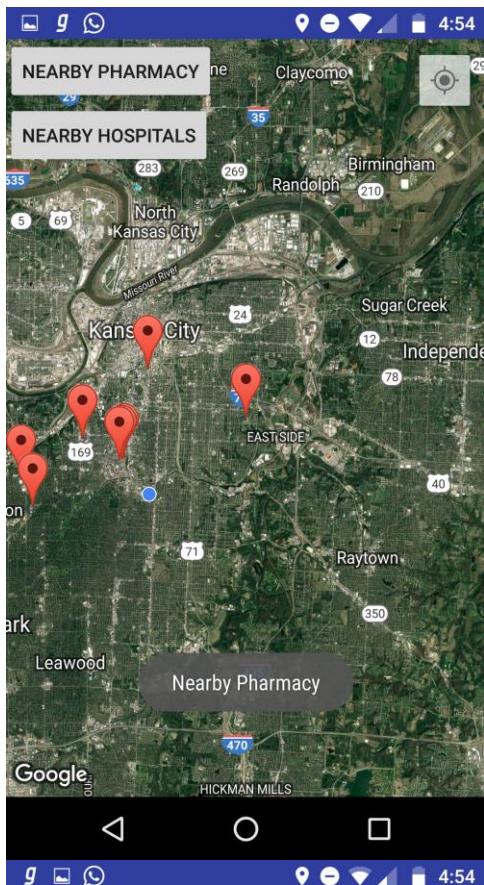
Conference Video Call

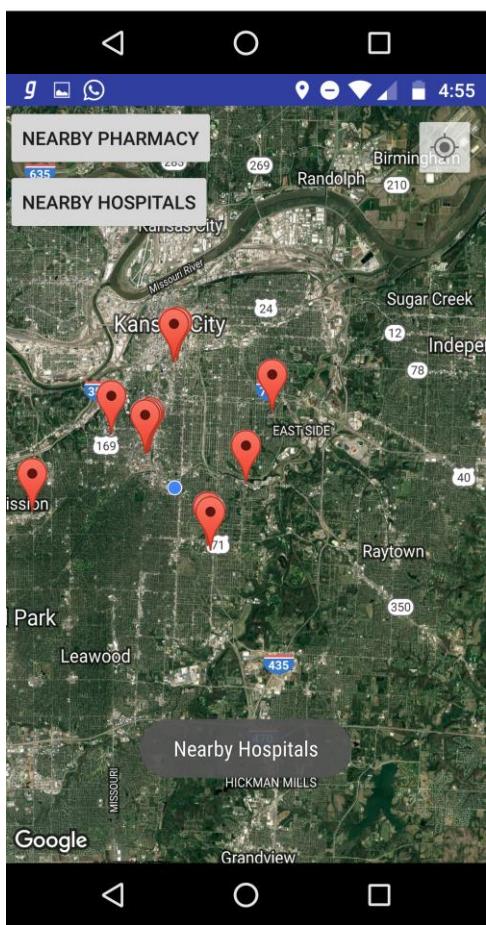
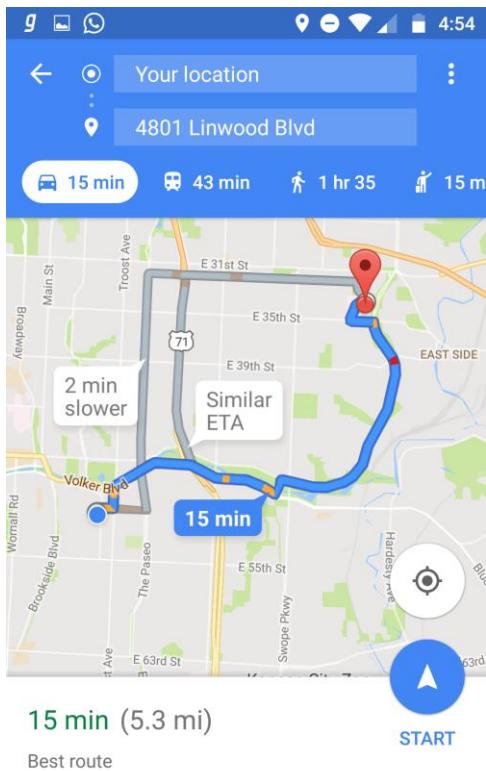


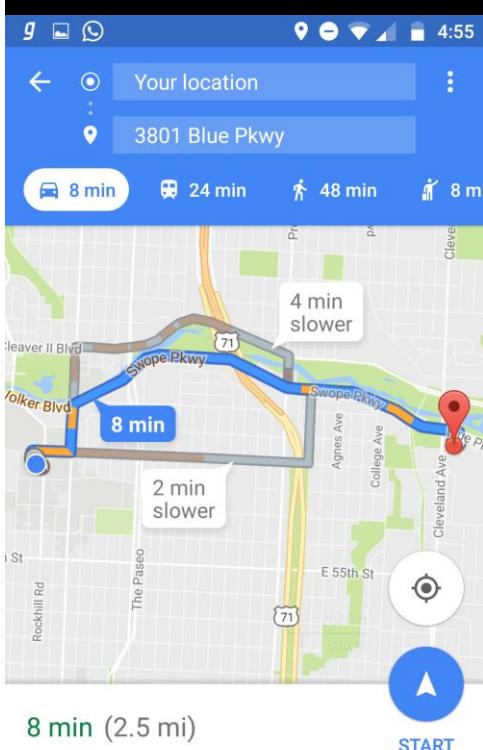
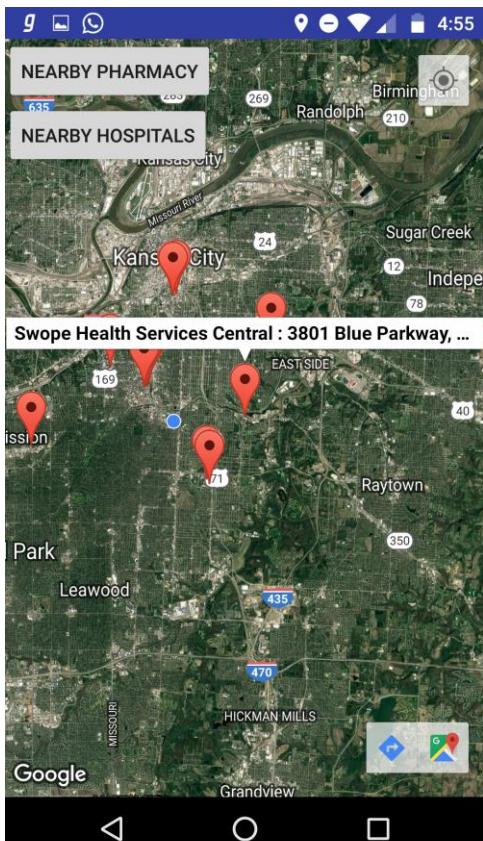
Google Maps

Nearest Hospital and Pharmacy store









Unit Testing

The following are the unit test cases and their results:

S.No.	Test case	Description/Process	Expected result	Actual result	Pass/Fail
1	Registration	Doctor/Patient has to do registration to create their account	"Registration has to be successful"	"Registration is successful"	Pass
2	Registration	If the email ID is invalid	Error message stating invalid email ID	Error message stated invalid email ID	Pass
3	Registration	Password should also be correct length	Error message showing password length criteria is not met	Error message showed password length criteria is not met	Pass
4	Log in	User has to login with their valid credentials	Login has to be successful	Login is successful	Pass
5	Log in	User has logged in with invalid credentials	Error message stating invalid credentials	Error message shown stating invalid credentials	Pass
6	Display Personal Information	It display patients personal information	Displaying the input entered by user.	Displaying the information	Pass
7	Updating Personal Information	It updates the information entered by the user	Updates the values if user changes anything	Updated information	Pass
8	Booking a slot	Patient can book a slot for doctor meeting	Slot is booked and displayed to doctor	Slot is booked and doctor can see it	Pass
9	Slot Confirmation	Doctor can confirm or reject the slot asked by the patient	Doctor can confirm or reject slots	Doctor can confirm or reject slots	Pass
10	Write a feedback	Patient or doctor can write reviews	Patient or doctor can write review	Patient and doctor can write review	Pass

