Patient Monitoring System

Project Plan and Increment 1

Team # 12

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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.

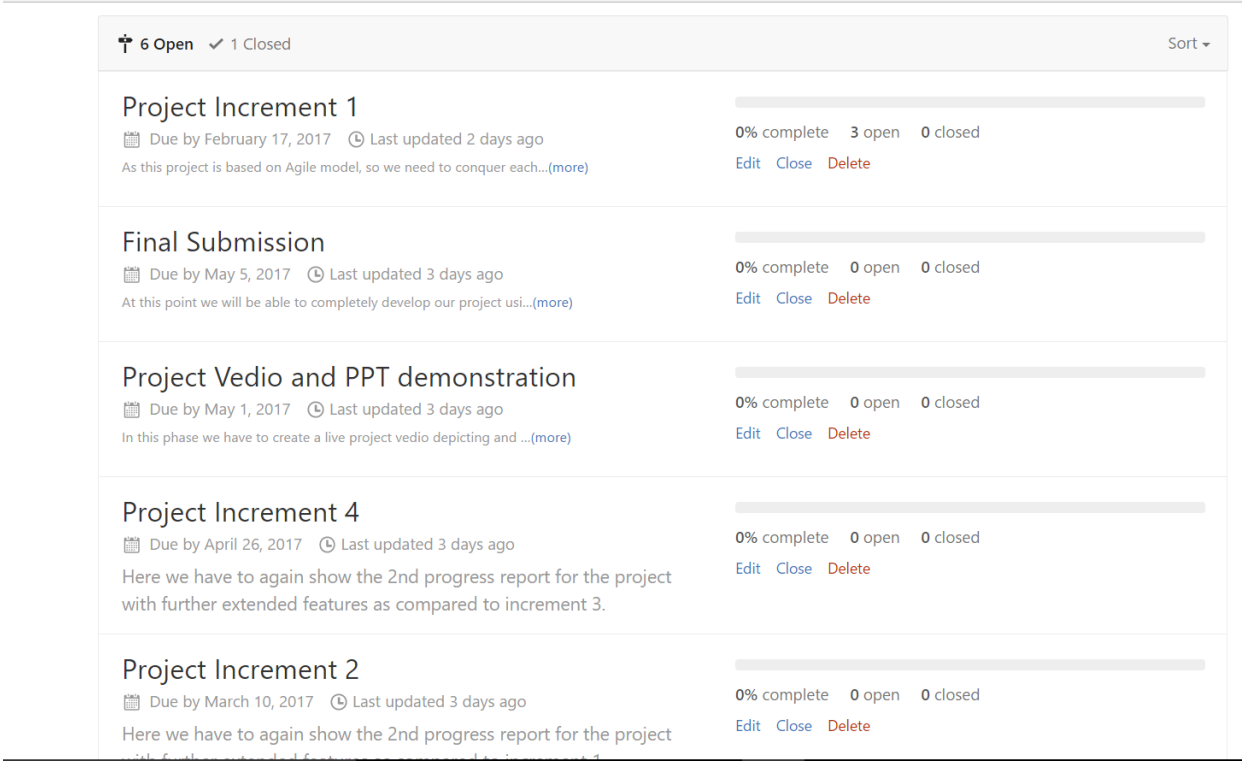
It will be a mobile application which can be accessed by the doctor as well as patients once they are registered under that doctor. Both doctor and patient will have access to their own accounts. They can talk to the doctor about their condition and can take advice from the doctor. They can also send 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.

Project Plan (USING ZENHUB TOOL)

1) Milestones and Project Time line



Final Submission

Due by May 5, 2017 Last updated 3 days ago

At this point we will be able to completely develop our project usi...(more)

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Project Vedio and PPT demonstration

Due by May 1, 2017 Last updated 3 days ago

In this phase we have to create a live project vedio depicting and ...(more)

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Project Increment 4

Due by April 26, 2017 Last updated 3 days ago

Here we have to again show the 2nd progress report for the project with further extended features as compared to increment 3.

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Project Increment 2

Due by March 10, 2017 Last updated 3 days ago

Here we have to again show the 2nd progress report for the project with further extended features as compared to increment 1.

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Project Increment 3

Due by April 7, 2017 Last updated 3 days ago

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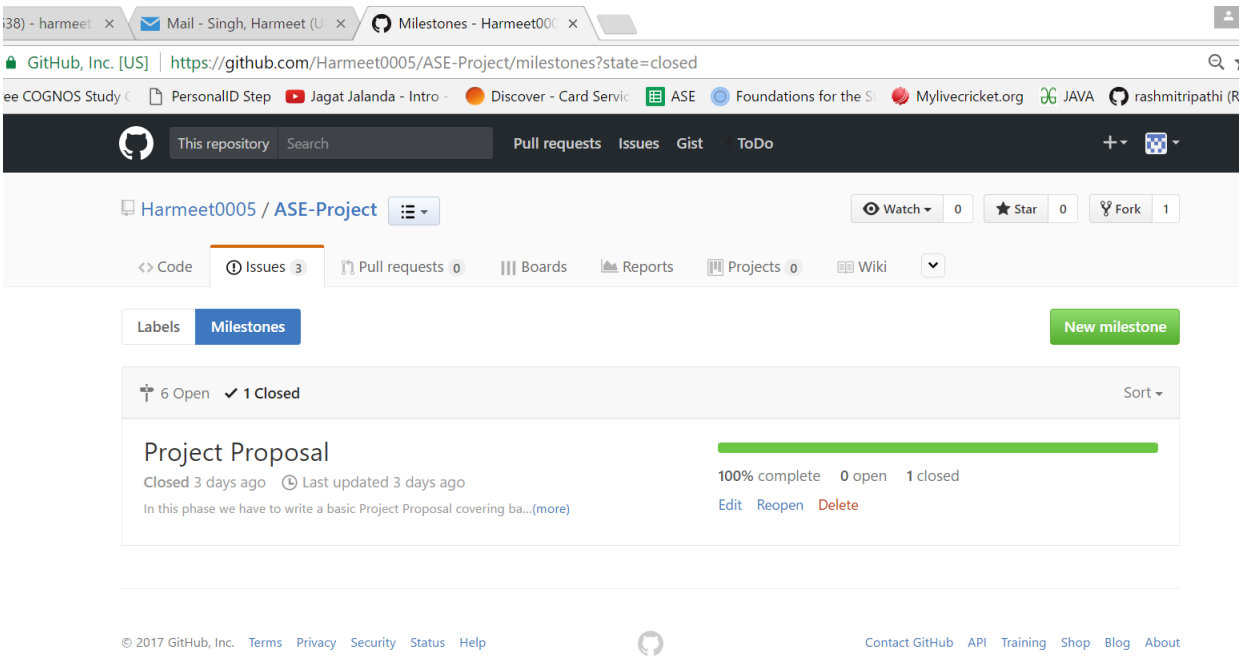


2) Burn down Chart

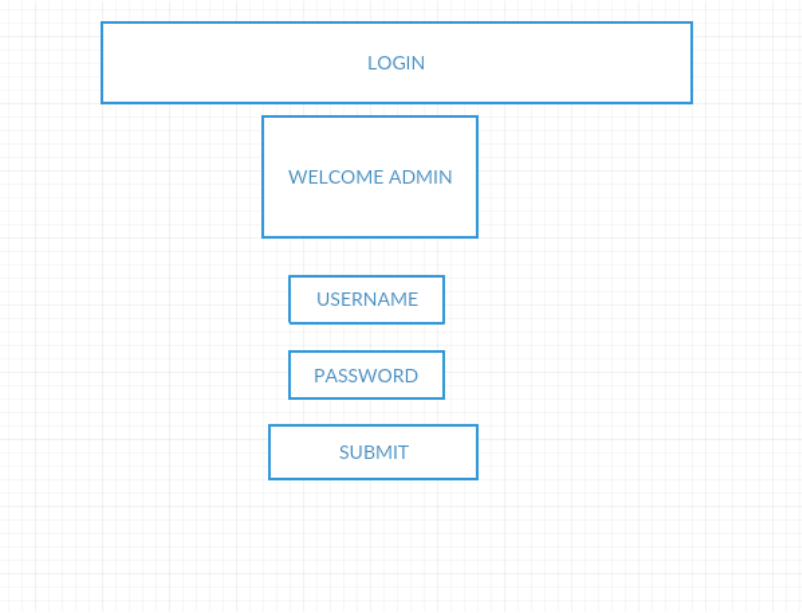
First Increment Report

Modules:

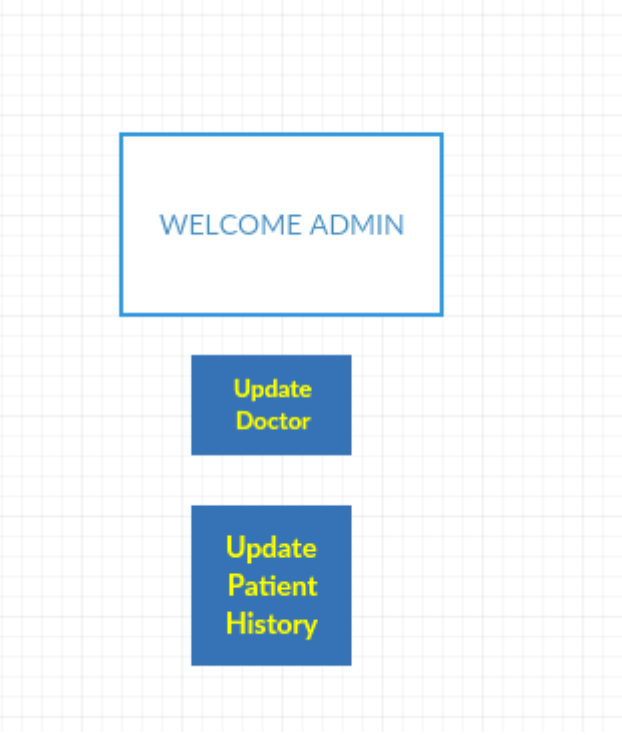
- **Doctor registration:** Doctor can enter his details and make an account on the application.
- **Patient registration:** Patient can enter his details and make an account on the application.
- **Admin dashboard:** Admin can log in to his account and manage overall activities.
- **Doctor Dashboard:** The doctor can log in to his account and manage his appointments and chats.
- **Patient Dashboard:** The patient can log in to his account and schedule appointments or chat with his doctor about prescriptions and medicines.

Detailed Design of Features (Using Tools)

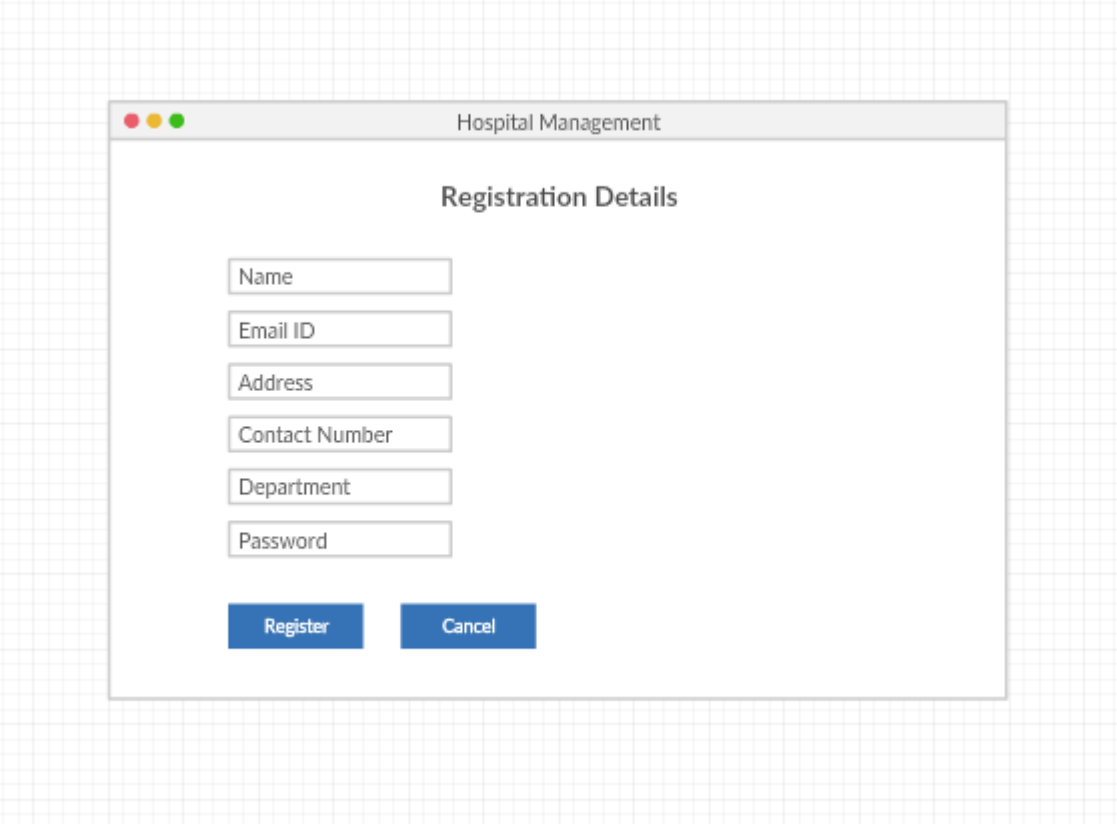
- **Using wireframes**



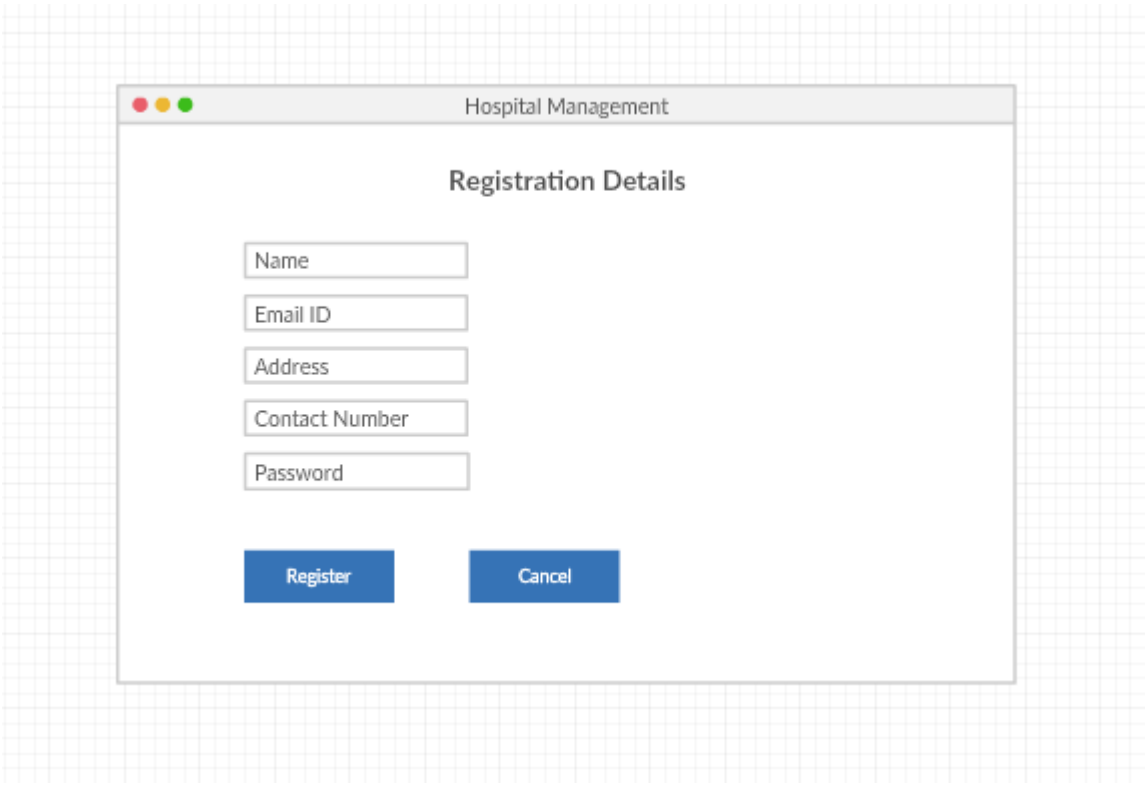
Admin Page



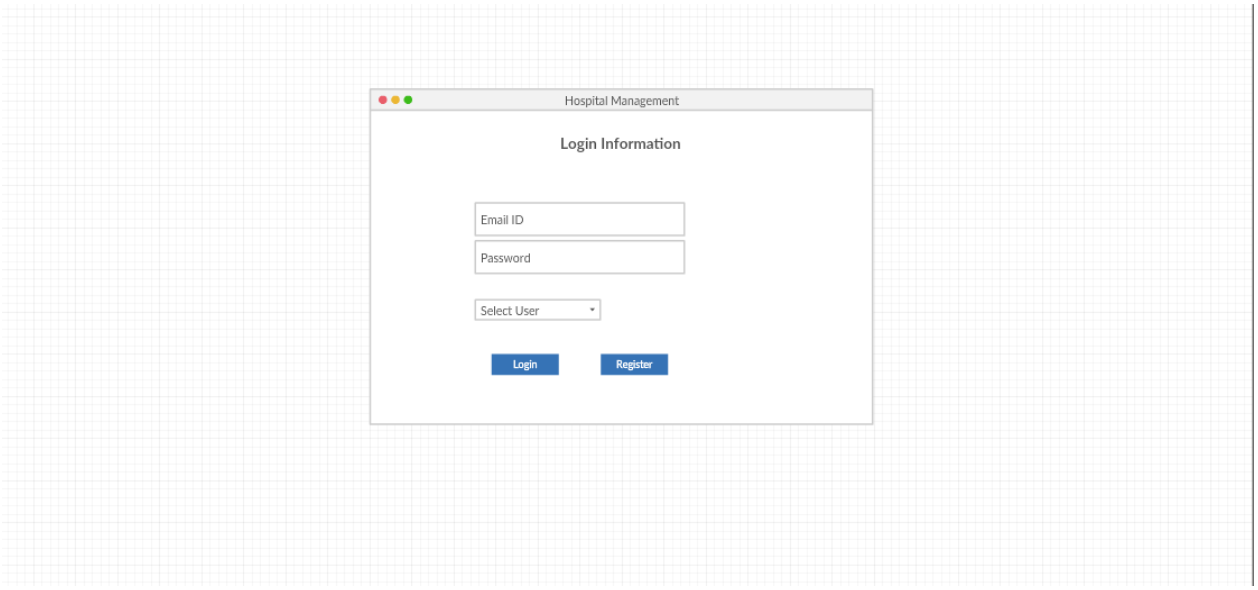
Admin Dashboard



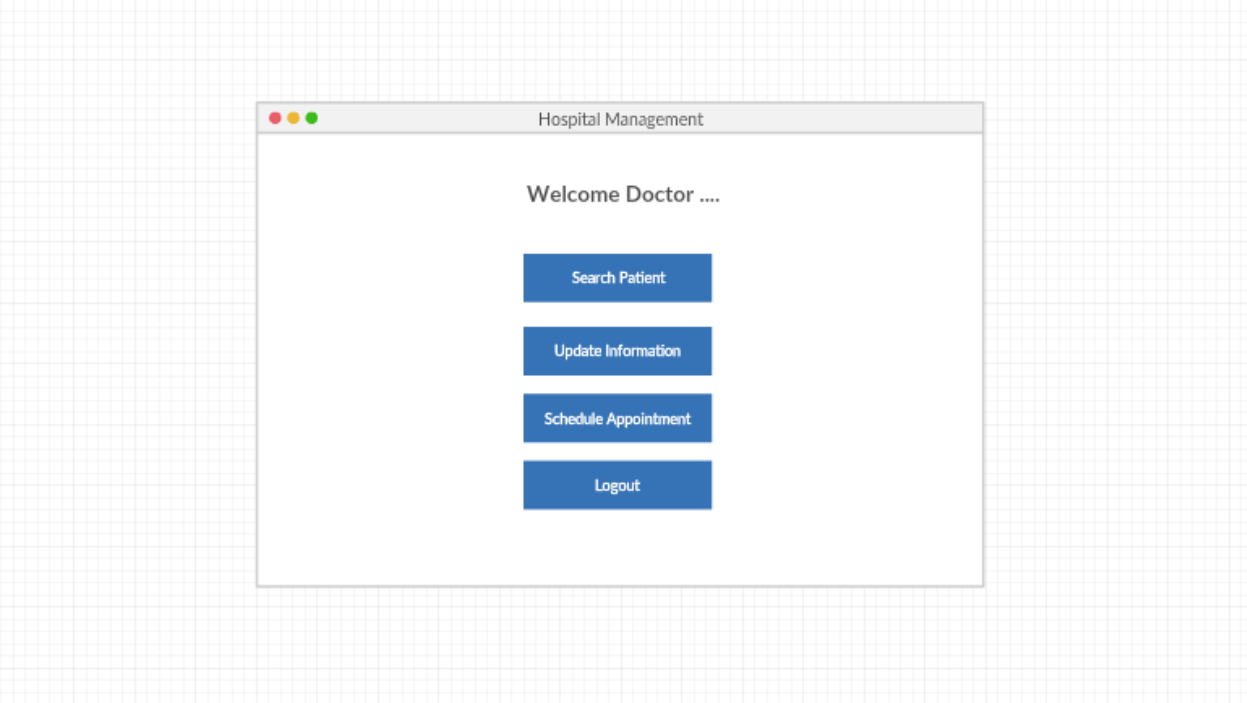
Doctor Registration



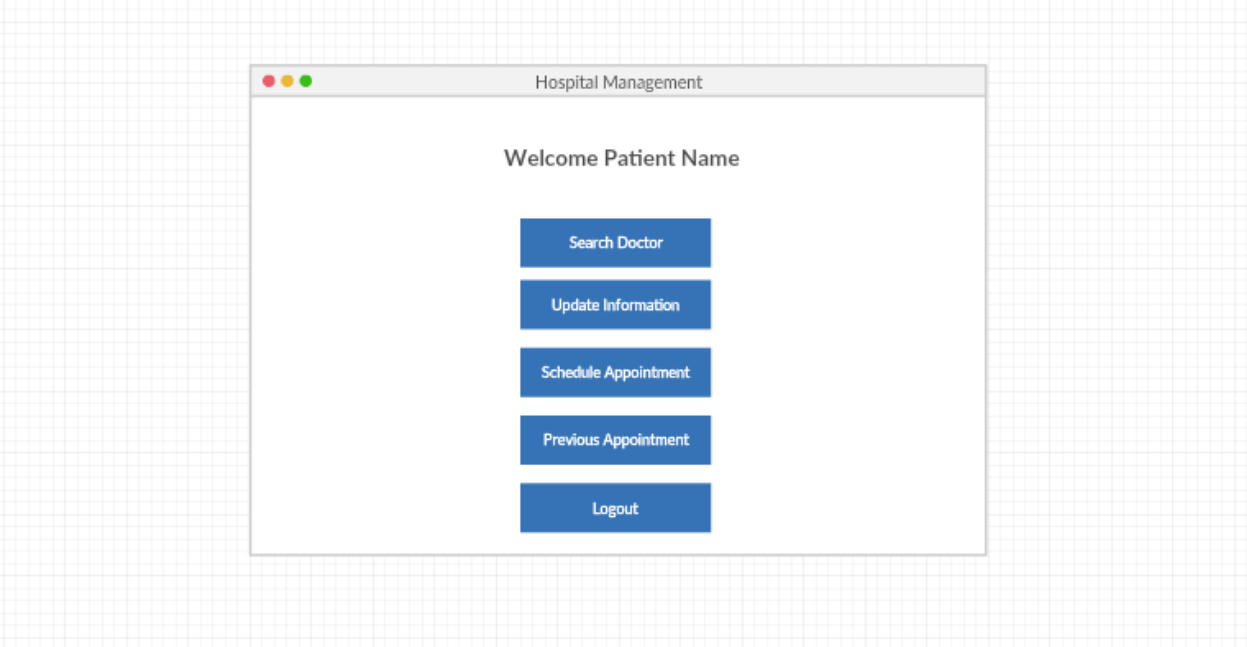
Patient Registration



Login Page

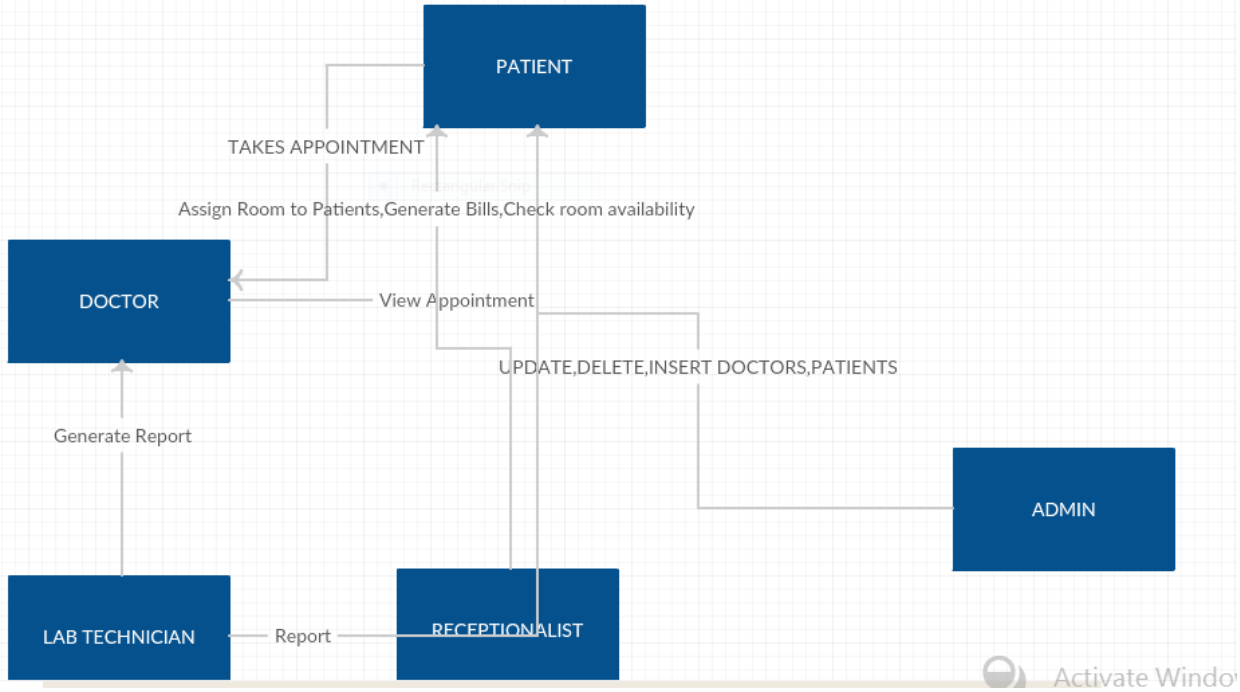


Doctor Dashboard

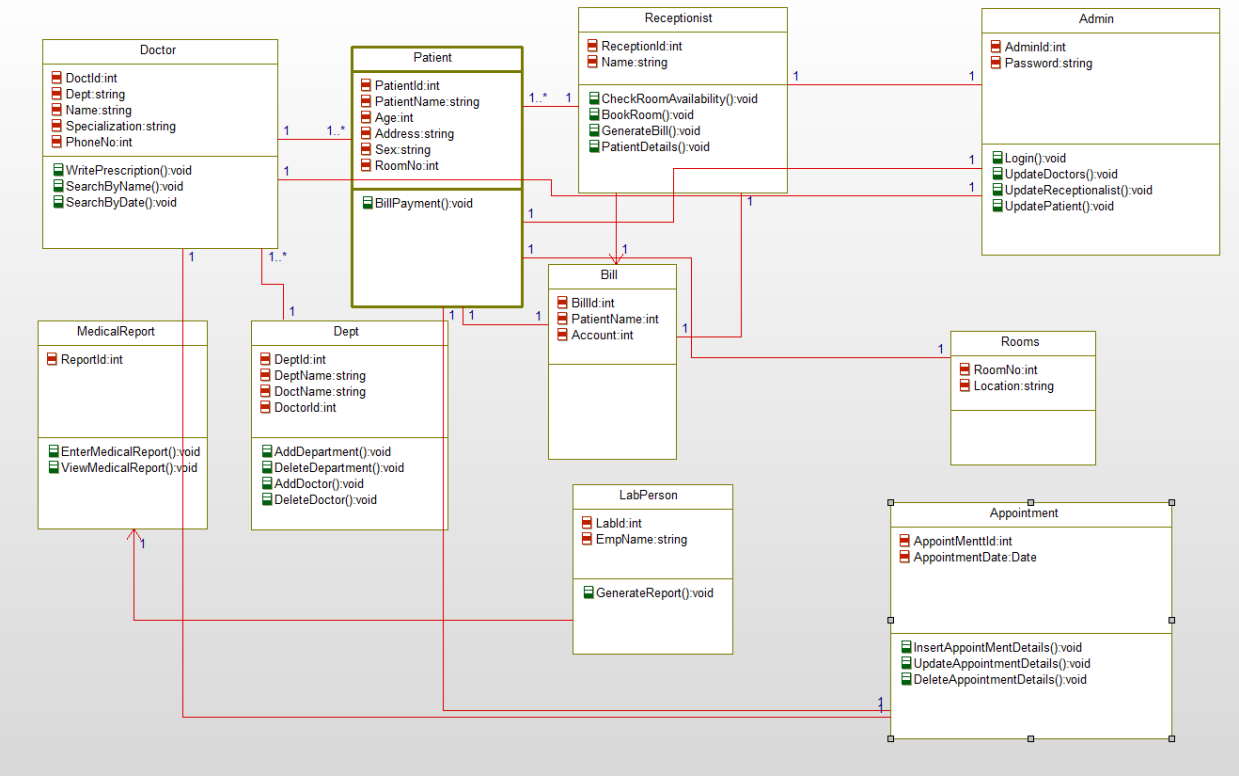


Patient Dashboard

- **Architecture Diagram**



- **Class diagram**

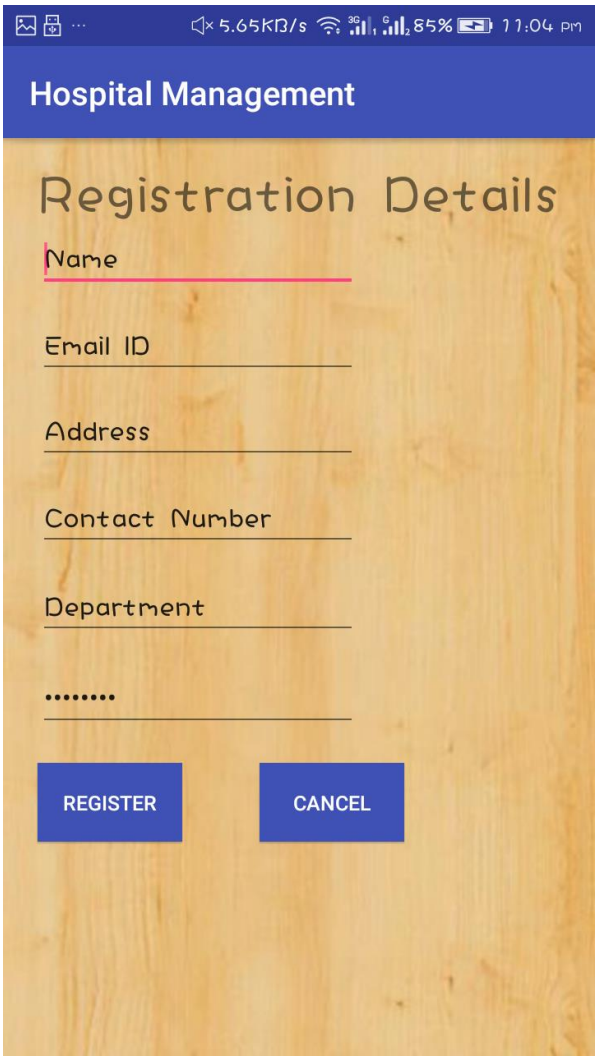


Implementation and Deployment

We can find the source code at GitHub at following URL:

https://github.com/Harmeet0005/ASE-Project/tree/master/Source

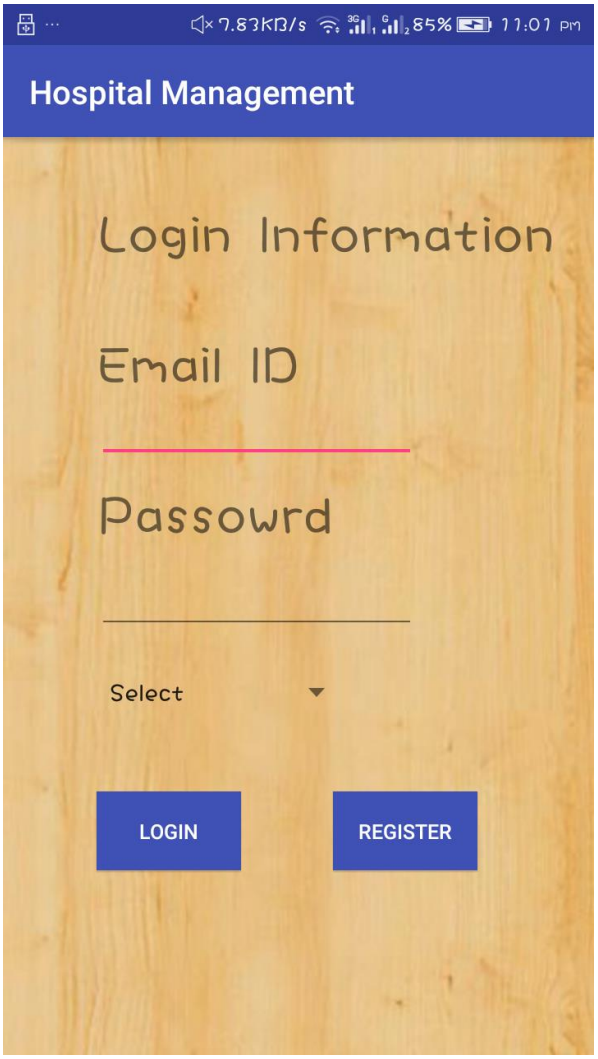
Snapshots after deployment are :



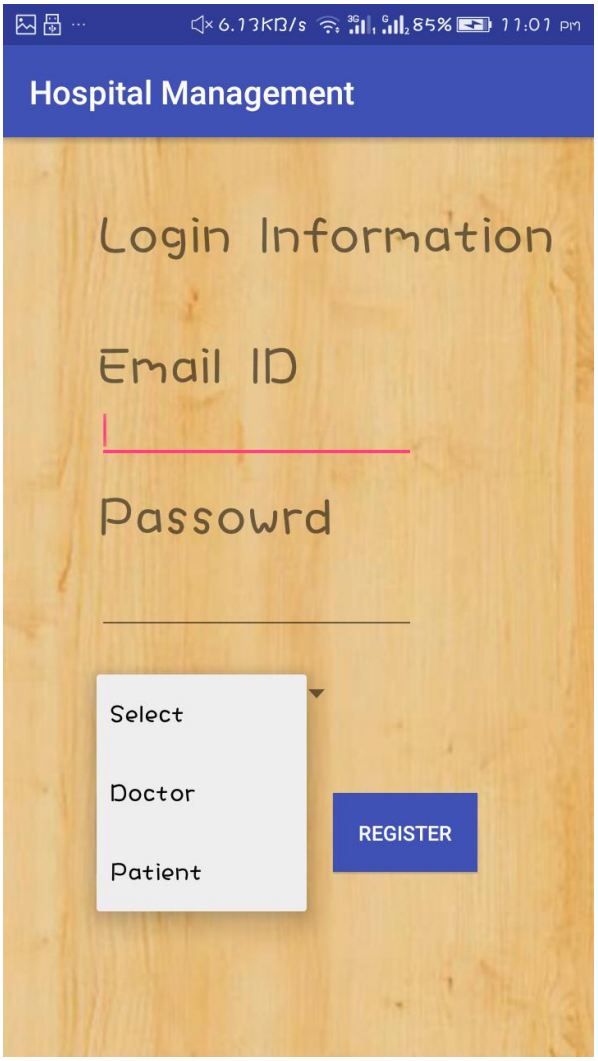
Registration Page for Doctor

Registration Page for Patient

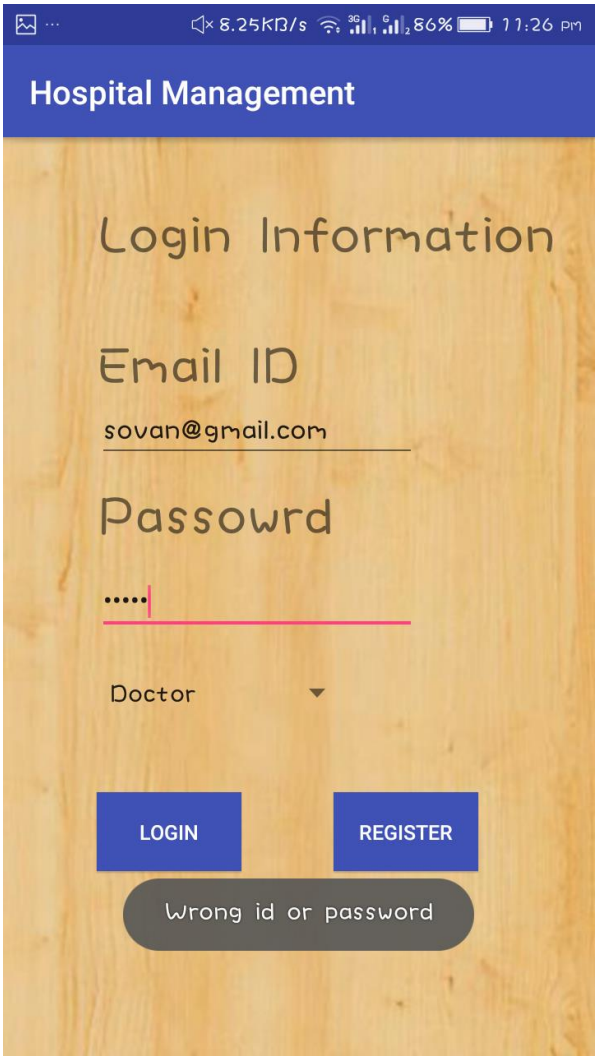
Email Validation


7.83KB/s
85%
11:01 pm
Hospital Management
Login Information
Email ID
Passowrd
Select
LOGIN
REGISTER

Login Page

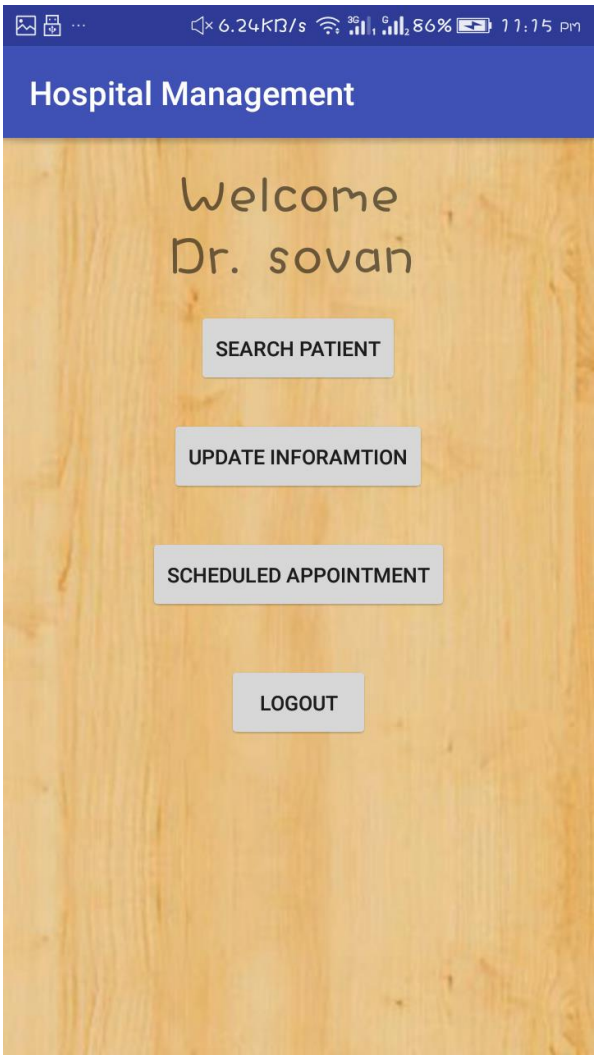


Login selection for doctor or patient

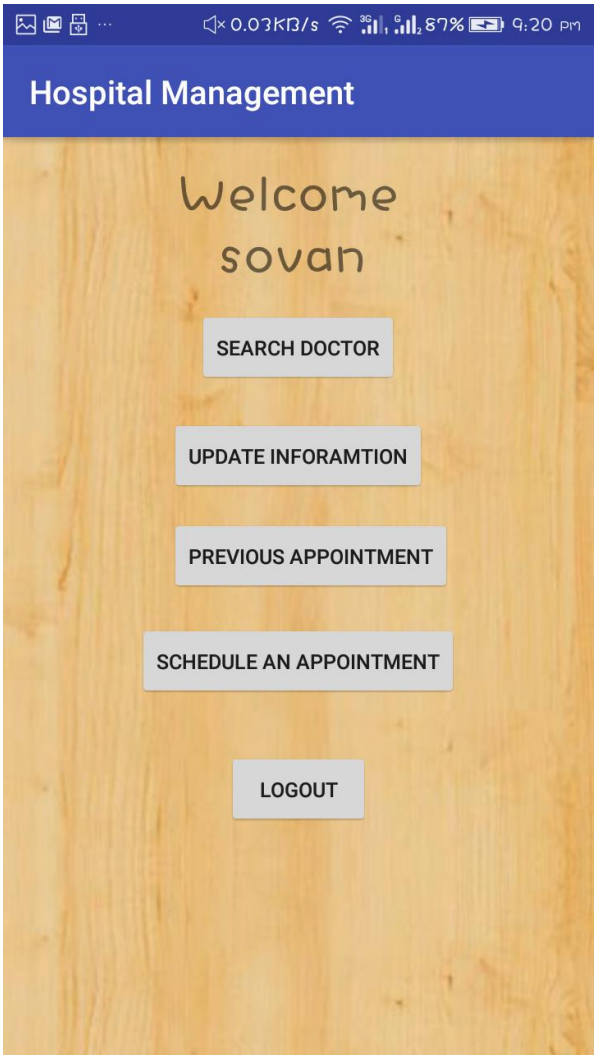


Checking credentials

Logging in as Doctor



Doctor Dashboard



Patient Dashboard

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	User has to register in registration page	Registration has to be successful	Registration is successful	Pass
2	Registration	Invalid email ID	Error has to be shown stating invalid email ID	Error has been shown stating invalid email ID	Pass
3	Registration	Password criteria has to be met	Error has to be shown when password length criteria is not met	Error has been shown when password length criteria is not met	Pass
4	Log in	User has to login with valid credentials	Login has to be successful	Login successful	Pass
5	Log in	User has to login with invalid credentials	Error has to shown stating invalid credentials	Error has been shown stating invalid credentials	Pass

Bibliography

- http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6139641&newsearch=true&queryText=android%20patient
- http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6291373&newsearch=true&queryText=android%20patient
- http://nevonprojects.com/android-patient-tracker/