CS5551- ADVANCED SOFTWARE ENGINEERING
HEALTH INSPECTOR

PROJECT INCREMENT- 1 REPORT

TEAM NUMBER: 12

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1. INTRODUCTION:

HEALTH INSPECTOR

"Health Inspector" is a hybrid application with the main idea to offer necessary health guidelines to the user. It mainly focuses on the diet plan to be taken based on BMI, the user can even set a remainder for his regular pills, get notified about the health insurance expiration and even book an appointment with the nearby doctor for his regular check-ups. The highlight of the project is even a diet plan can be suggested based on the health conditions of the user.

In addition to these the application also includes the approximate cost of the disease and even books an appointment in case of emergency.

2. PROJECT GOALS AND OBJECTIVE:

2.1 Motivation:

Have you ever thought of an automating the appointments with the doctor? And have you ever thought of notifications about the diet you need to follow based on your age on daily basis? Do you know when does your health insurance expire? Yes, we have thought of it and chosen to develop an application about all the health issues that occur in our daily routine. We also thought of implementing the approximate cost for the disease treatment required.

2.2 significance and uniqueness:

Currently, there are many applications that use to monitor the health conditions. But in our application we are integrating all the features in a single application where the user can even set a remainder for his regular pills, get notified about the health insurance expiration and even book an appointment with the nearby doctor for his regular check-ups. The highlight of the project is even a diet plan can be suggested based on the health conditions of the user.

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2.3 Objectives:

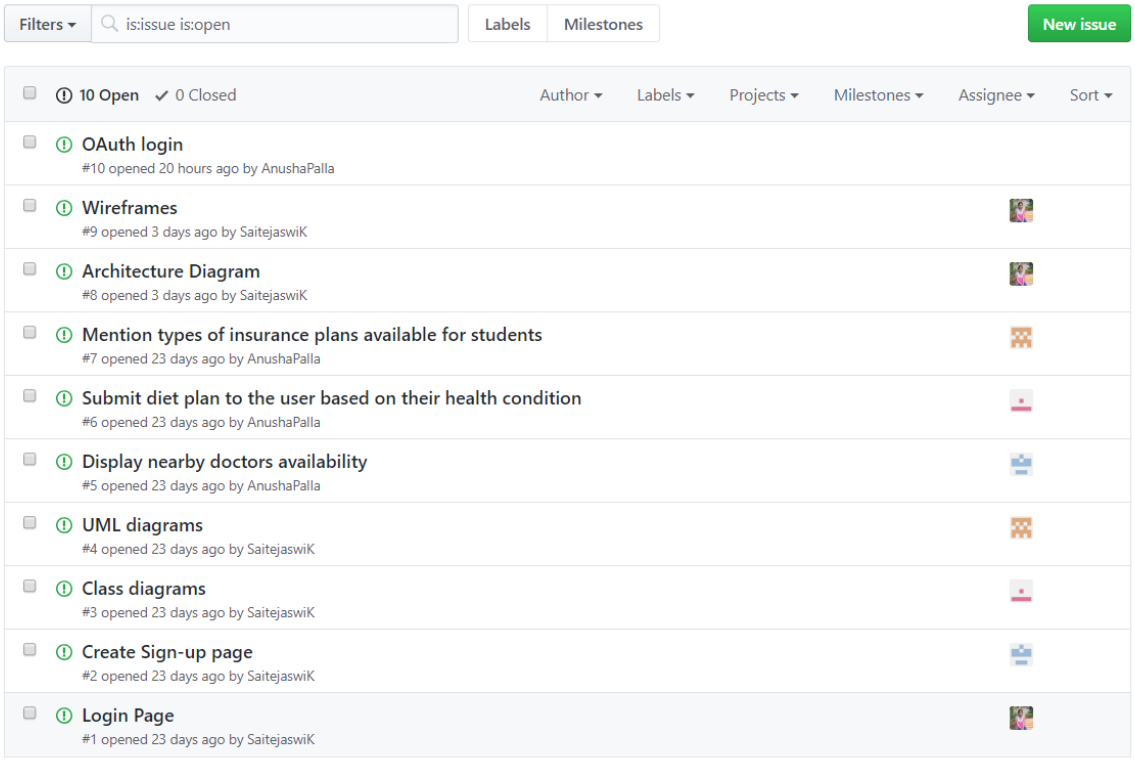
The objective is to develop a hybrid application where in the user can login and enhance his health experience using the features built in. Since we are dealing with health it makes apparent that we should develop an appealing UI which grabs user attention. The application contains initially user login activities which should be secured and we are also giving the user the diet plan which should be accurate and any wrong suggestions may misguide them. Even the user must be perfectly satisfied with the services provided by the application.

2.4 System features:

- Ability to login the application securely with user information.
- To know about the user health conditions(if prescribed)
- Suggesting the user the best diet in regular basis and even allowing the user to record his weight manually on regular basis.
- To calculate his BMI which is a very useful factor for an individual.
- Identifying the user's health insurance expiration based on his visa type(mainly for students) .

Github Issues:

- Github issues were raised during the project increment.
- Different issues were assigned to different contributors of the project.



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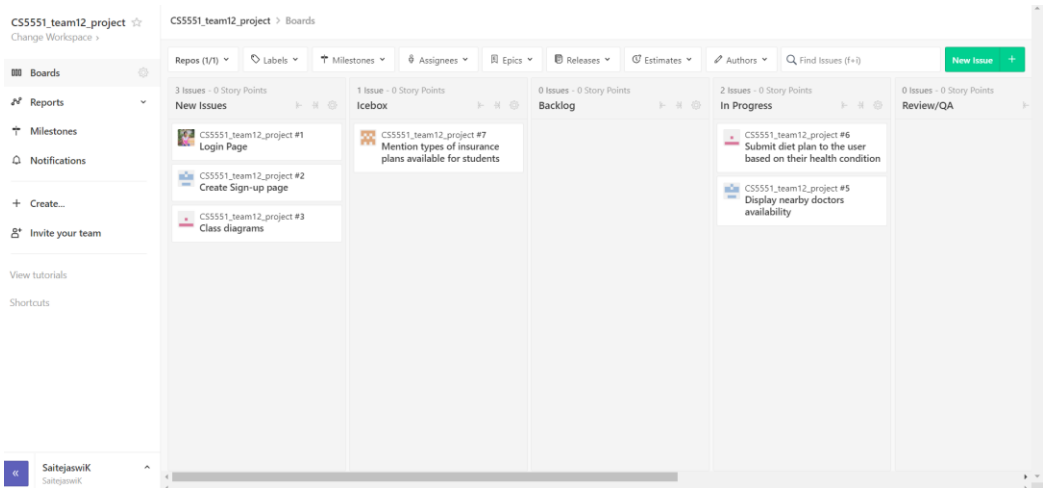
Zenhub Boarding:

- These issues are also maintained using zenhub tool.



First Increment Report:

- In the phase 1 of the project, we have implemented the authentication phase.
- Under authentication phase, login page has been implemented using local storage as well as with social login.
- In the social login phase, using Oauth2.0 google sign in and facebook login are implemented.

Wireframes:

- If the user has already registered he can directly login to the application.

Wireframes for login and signup page are as follows:

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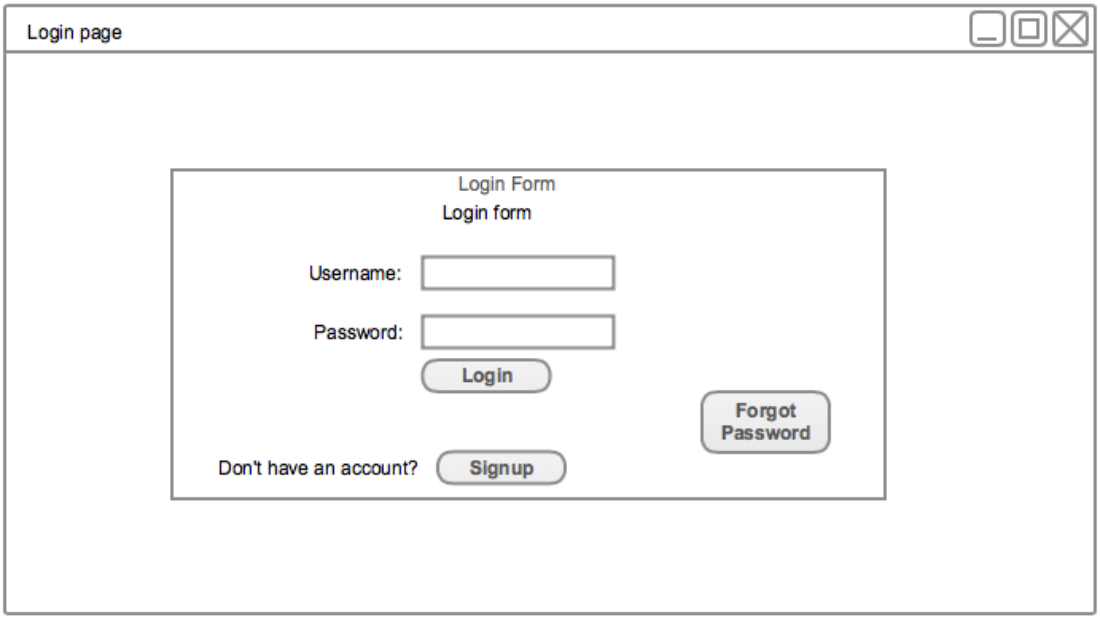
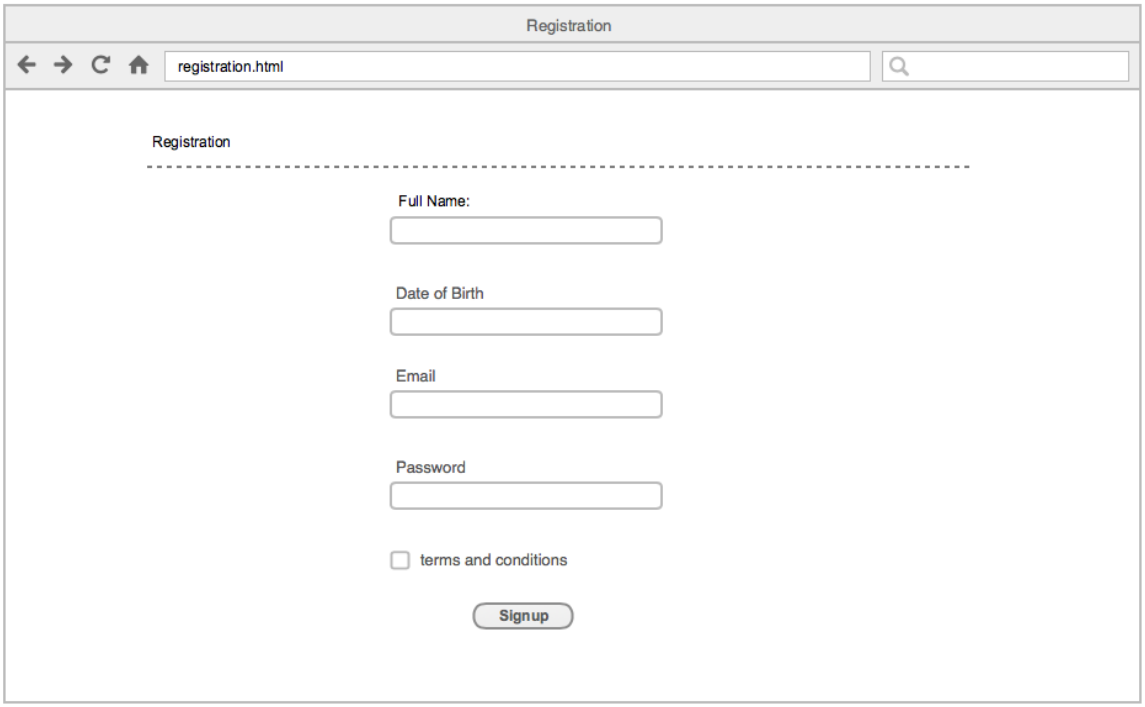


- If the user is not registered he can register to the application using Signup page

Wire frame for Signup page:



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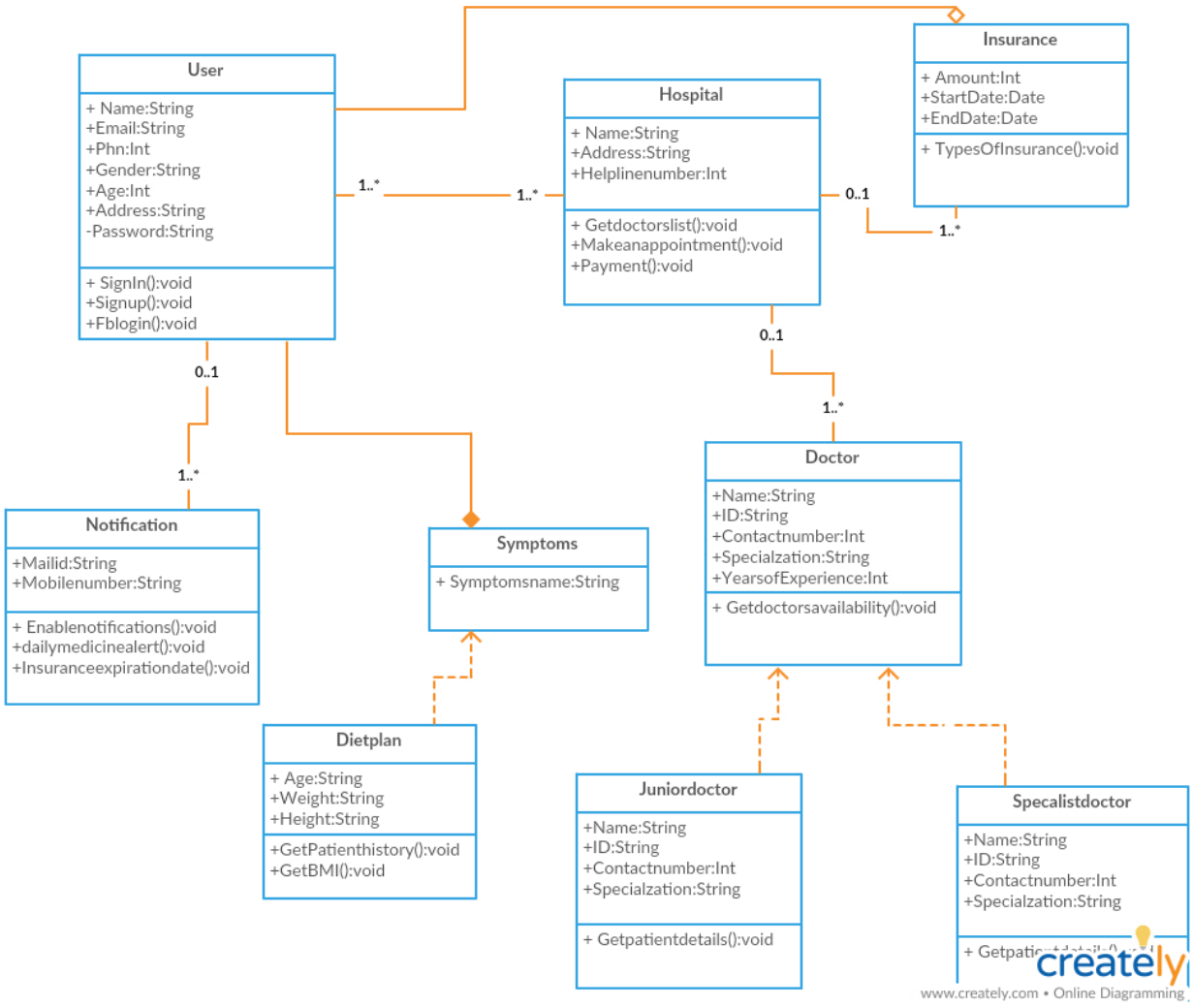
UML DIAGRAMS:

The major part of any project is to understand the workflow of the project where in the class diagram and sequence diagrams are very much helpful in going through the process workflow.

The class diagram of the project is as follows:



- Another important UML diagram which is very helpful in the user stories is a sequence diagram.

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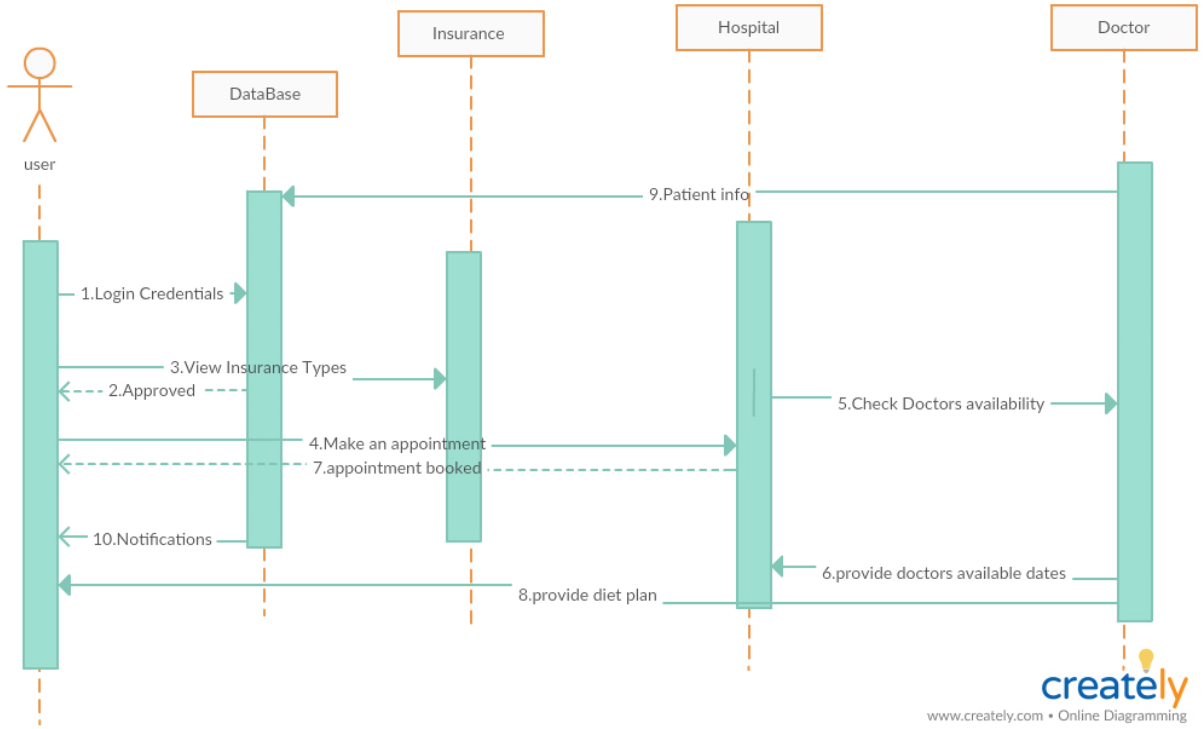
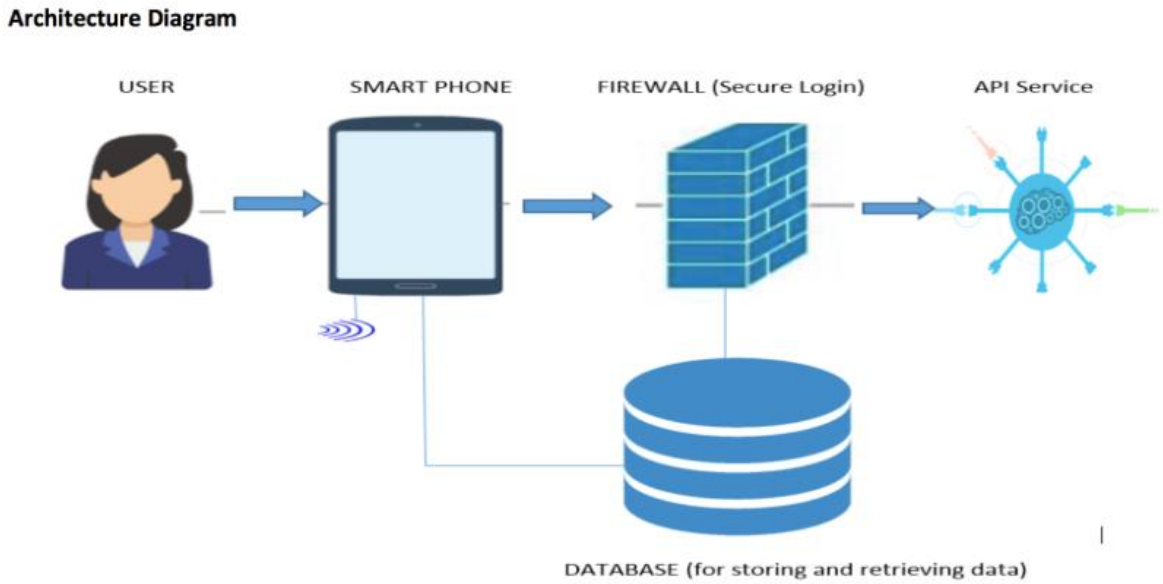
Sequence Diagram:



Architecture:



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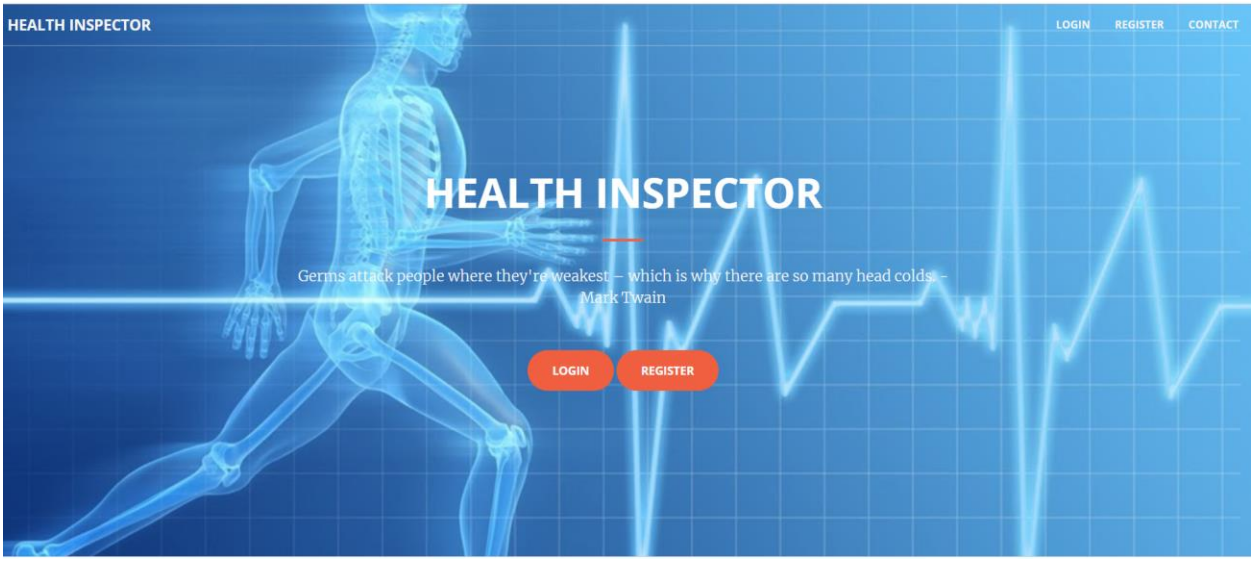
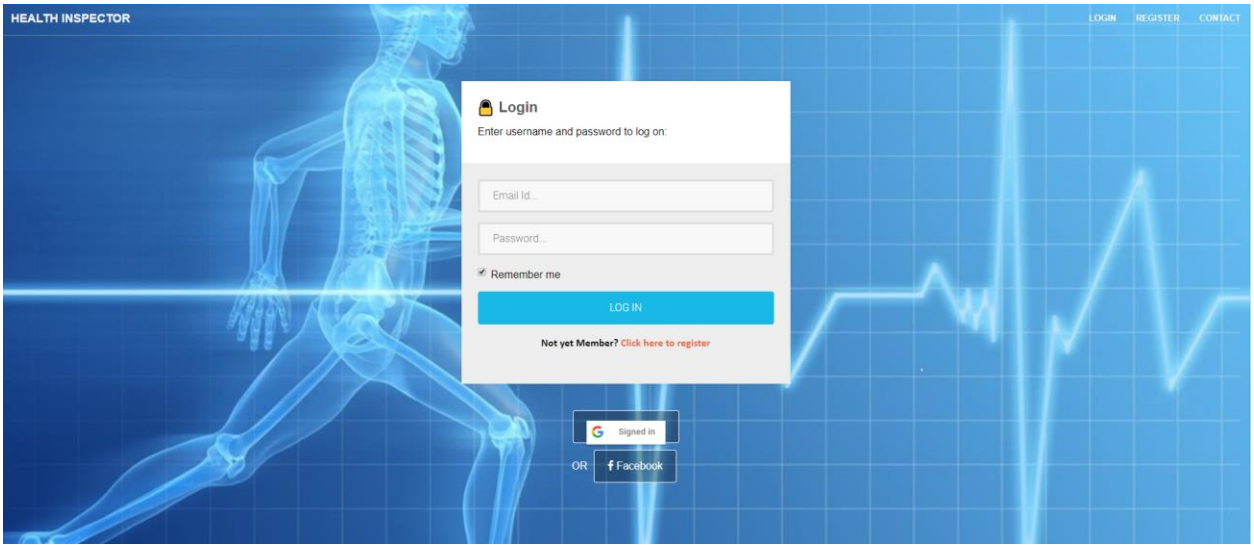
Implementation:



Login page



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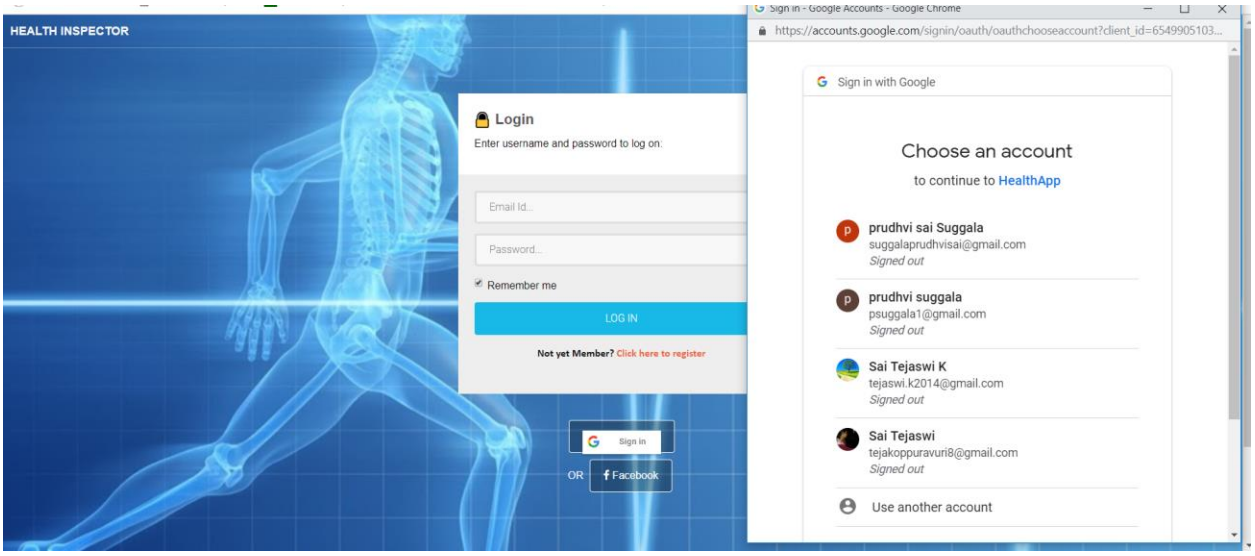
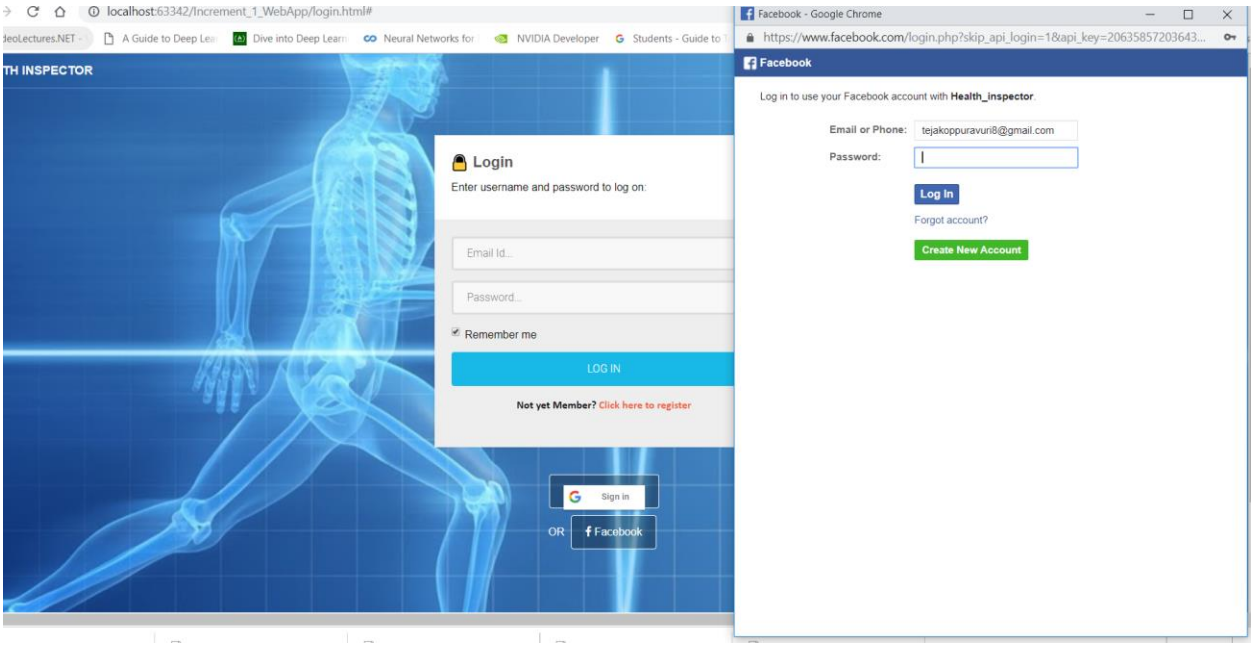
Oauth Login



Facebook Oauth:



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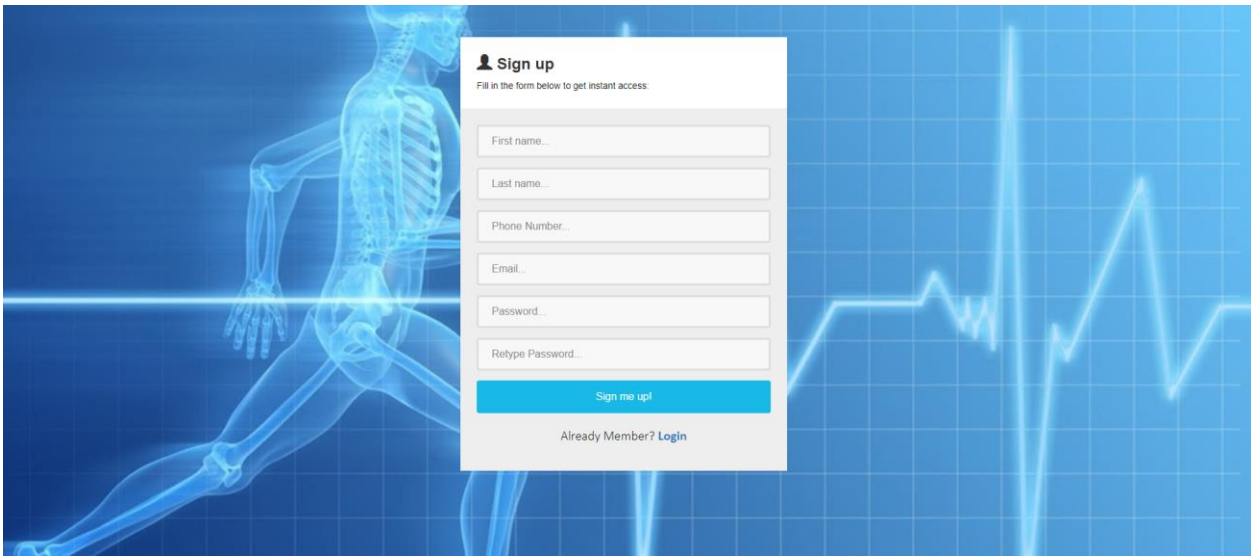
Signup page:



If the user has been successfully logged into the application, they are redirected to the home page.

Home page:

For the phase 1 we have used a *Better Doctor API* in order to retrieve the list of doctors available. So in order to show the doctors available user has to click on the Get Doctor button which will retrieve the doctors list.

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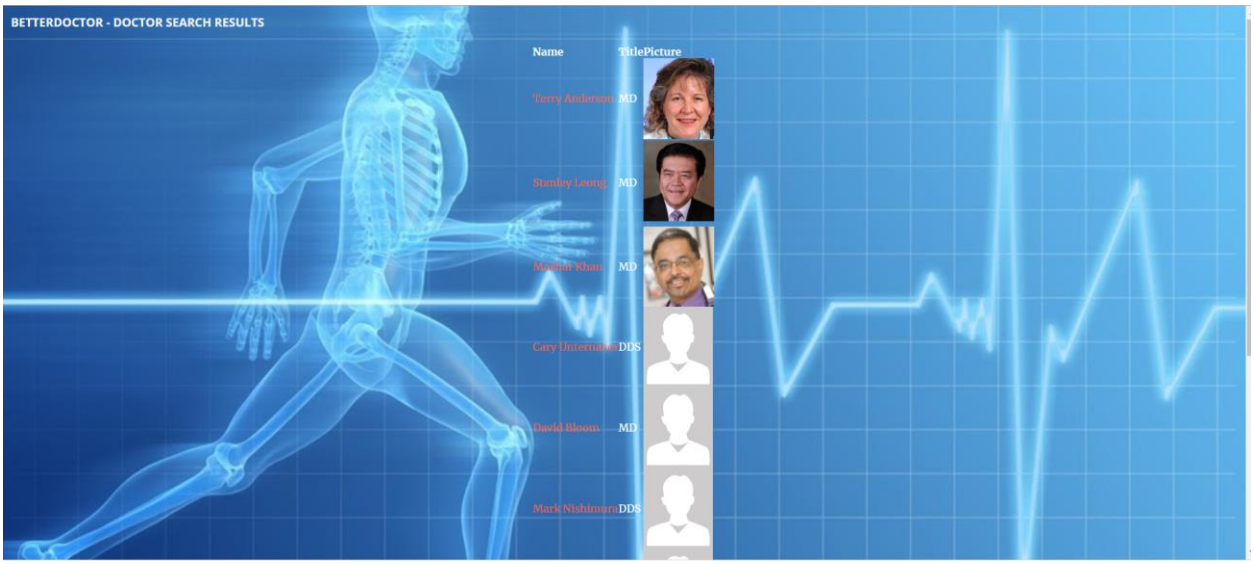
The result is as shown:



About page displays the glimpse of the project proposal.

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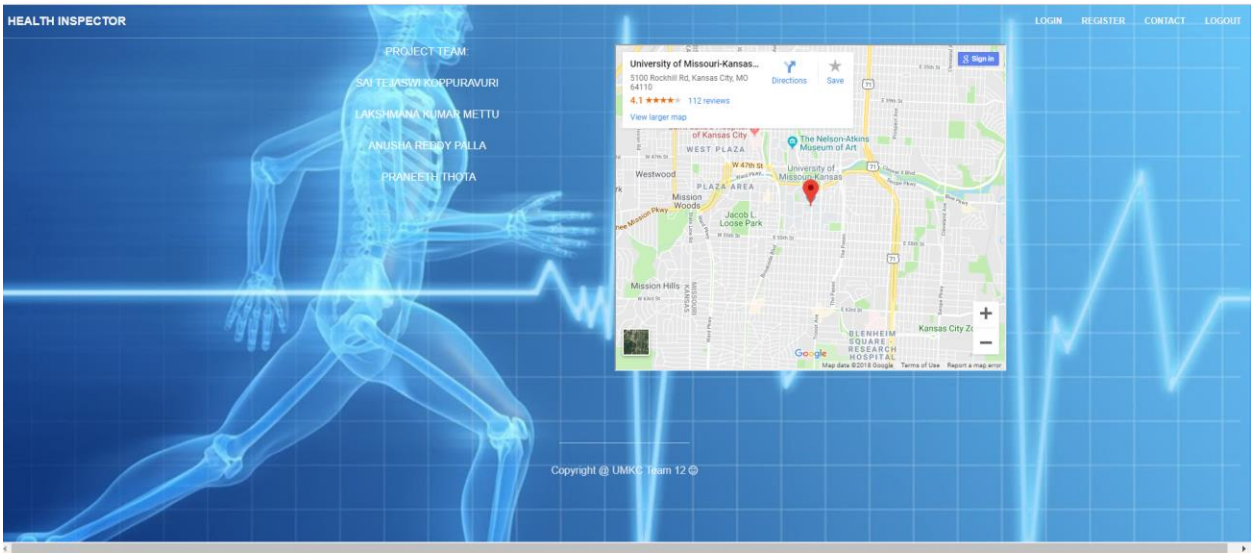
Contact Page displays the location and also the details of the project team.



TESTING:

The below are the unit test cases for first phase of the project.

S.no	Test case Title	Description	Expected Outcome	Result
1	User Login Verification	The user should login with the registered email id and password.	Login has to be successful and user has to be redirected to Home page.	Pass

2	User Login Verification with invalid details	The user enters either wrong email id or password.	Login should fail with error message on the Login Screen.	Pass
3	User Login Verification with no details	The user enters no details (email id , password) and tries to login	Login should fail with error message on Login Screen	Pass
4	New user registration	The new user should enter all the details such as Name, Email, Password etc. and the admin has to validate the entered details.	User should be able to register successfully and is redirected to Login page	Pass
5	Invalid User Registration	New user tries to register with no details and tries to Sign Up.	Registration should fail and error message has to be shown on registration screen.	Pass

PROJECT MANAGEMENT:

Technologies Used: Bootstrap, Angular JS, HTML, CSS, Android SDK, Oauth 2.0

Softwares Used: Android Studio, Web storm.

Completed the following work:

1. UML diagrams.
2. Created increments in Zenhub.
3. Created wireframes.
4. Login and registration page for both android and web applications.
5. Implemented the Social Login using Oauth2.0
6. Used the BetterDoctor API to get the doactors list.