Advanced Software Engineering

Project Increment 1

FettleUp

Team 8

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2. Mudunuri Sri Sai Sarat Chandra Varma (52)
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4. Nandanamudi Sreelakshmi (60)

1. Introduction

FettleUp

When we feel sick, we need to go to hospital and take an appointment with doctor. The severity of the disease is less this will be a time taking process in our day-to-day busy life. In this smart world, we thought of having one application that will be handy to opt for a doctor and make an appointment with him in online and discuss regarding our problem and get the necessary suggestions from him, so we can save our time. Finally, we came up with this thought to save time for everyone.

2. Project Goal and Objectives (Revised)

Overall Goal:

The main goal of this application system is to provide an end-to-end communication between the common people and their consultation doctors. The gap between them is filled by using various resources of communication such as online chat, request for appointment consultation and ease of search in nearby emergency.

Specific Objectives:

Technology is evolving everyday, so creating an interactive web application by reaching our goal within the time frame is our major objective. The key thing of the application is to provide end-to-end relationship between doctor and patient. We personally take care in building a real time system that is user friendly and reachable to patients round the clock. To make a system, which feeds instant guidelines to people, regarding their appointment status, doctor availability and other related information.

Specific Features:

The features are classified as

• Make a hassle free appointment and consultations with doctor,
• Round the clock advice from doctors by using the chat option,
• Provide daily diet for future reference to doctor's in case of health checkup,
• View prescription and shop for them on e-commerce sites i.e. Wal-Mart pharmacy,
• Look for nearby emergency and pharmacy with single click,
• Feedback option on their experience.

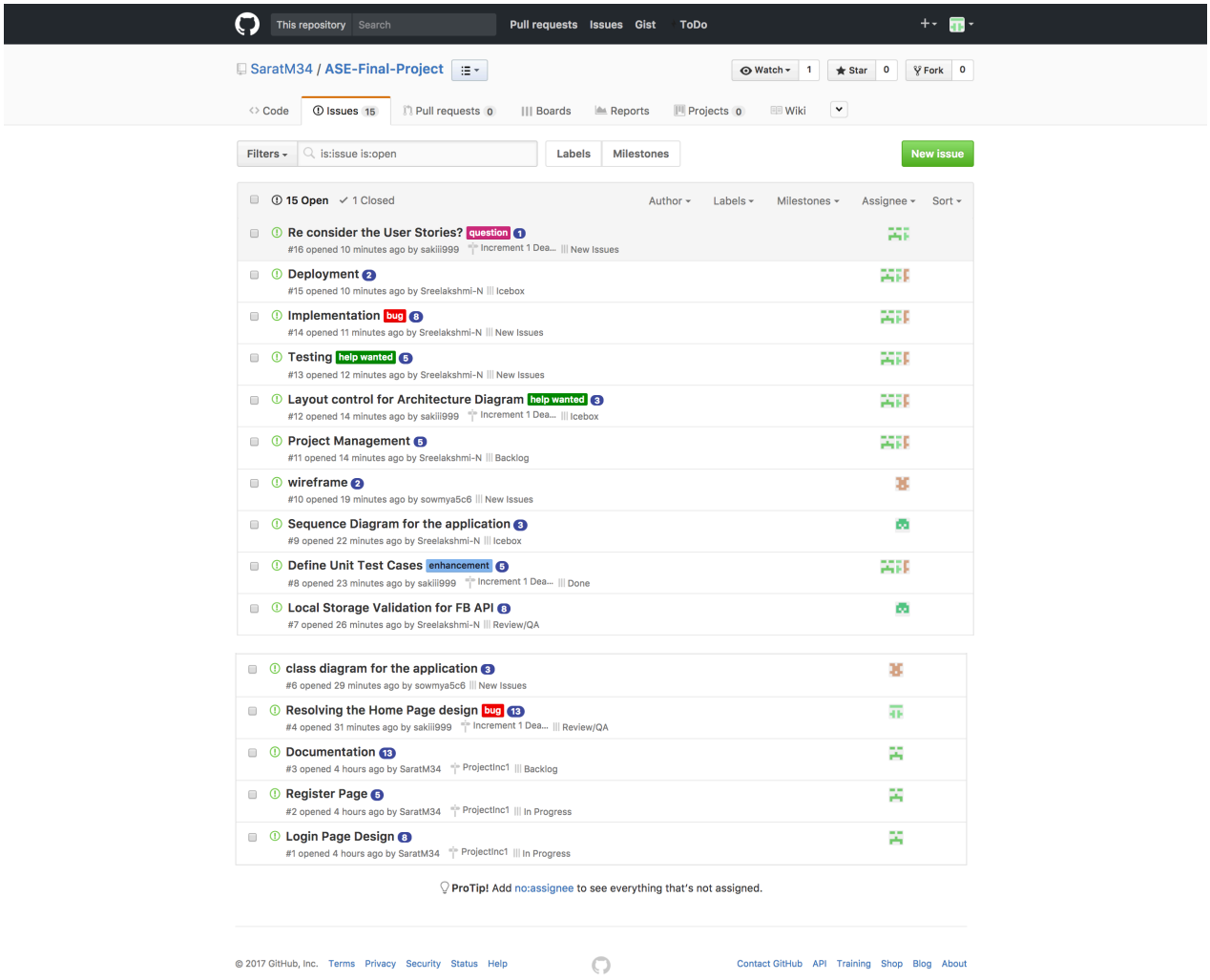
Significance:

As we can see there are many applications for health care but our application is stand out from others. In this application we can quickly check for the availability of doctor in particular categories and schedule an appointment with him or else we can chat with him from our desk itself, which is time saving process. Therefore, this application will become the dominant form of interaction.

3. Project Plan

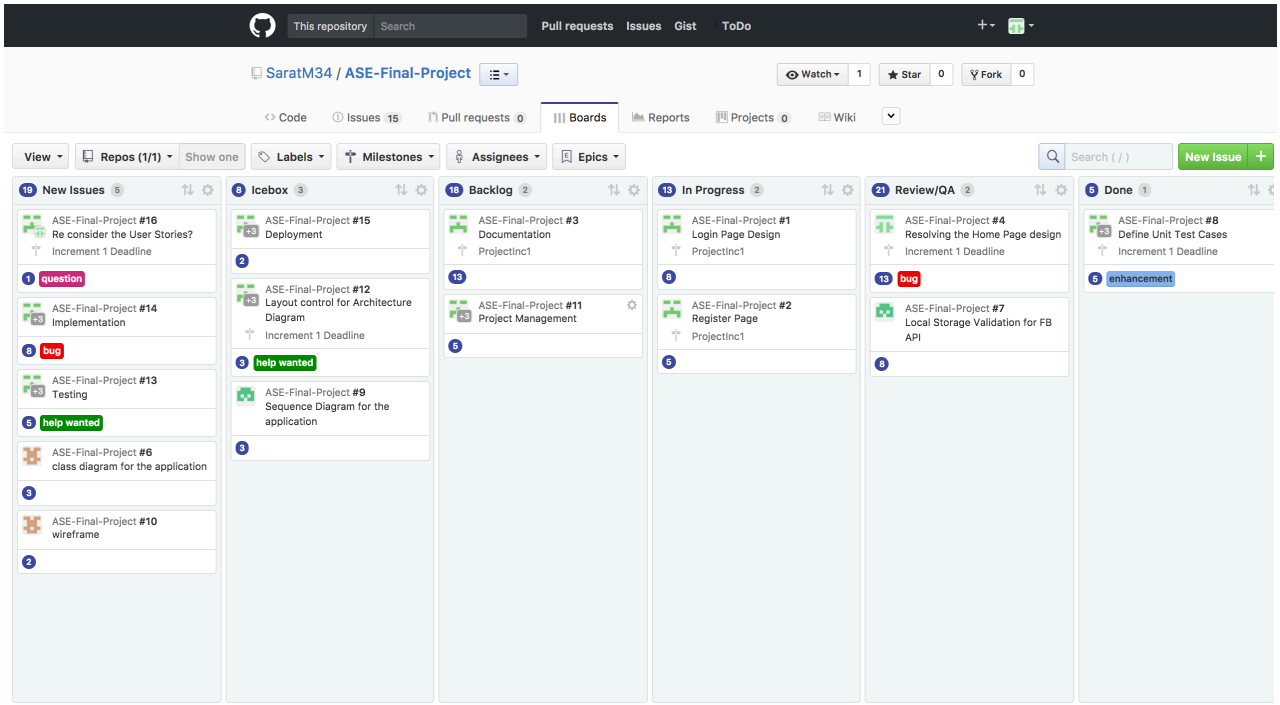
Zen-Hub Screenshot:

For the first increment we had issues regarding the working of Login and Register pages, validation through local storage, integrating Facebook and Google login API and writing unit test cases.



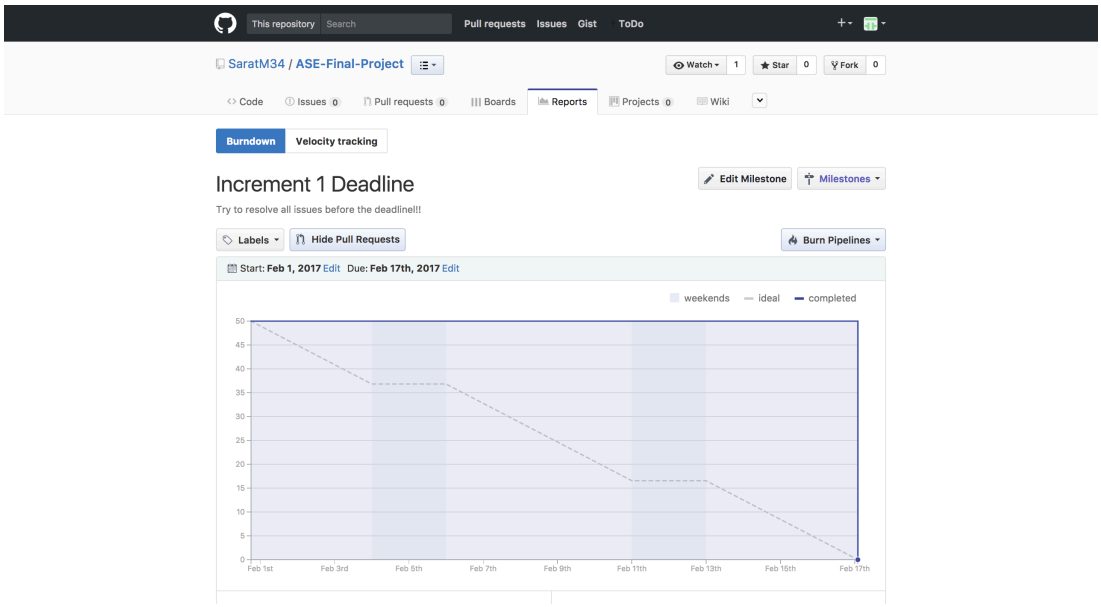
Project Timeline, Members and Task Responsibility

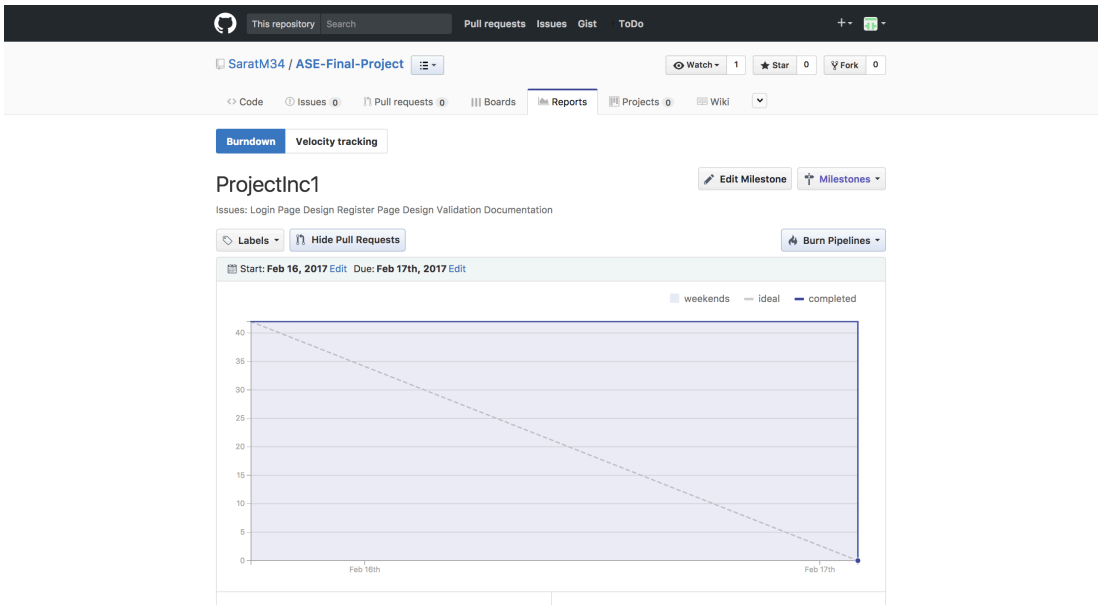
The issues that are registered and current one's which we are working are updated and can be viewed in github repository. The below screenshot will show you the issues and their respective categorization's i.e. New issues, Icebox, Backlog, In-Progress.



Burn-Down Chart:

Burn-Down chart is created for the above issues via Milestones in github. Below is the screenshot for more information,





4. First Increment Report

Existing Services/REST API

API's Used

Facebook API:

We have integrated Facebook API for our login module using OAuth 2.0 security.

Google API:

We also included Google API in our login module using OAuth 2.0 so users can easily login into our web application by using their respective existing accounts.

Bootstrap:

Bootstrap 4.0 is used in creating the web pages and has a major role in designing the CSS elements and layouts.

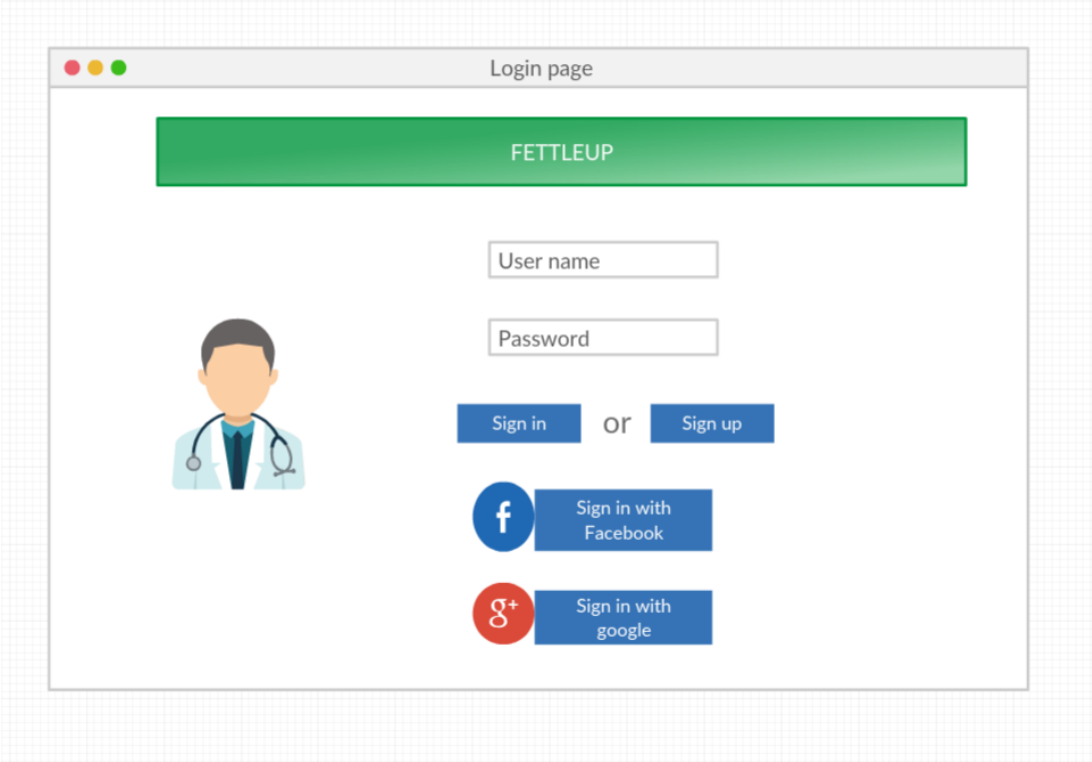
API's Forthcoming:

- Google Maps API
- Practo API
- Speech to Text API
- Mail service API

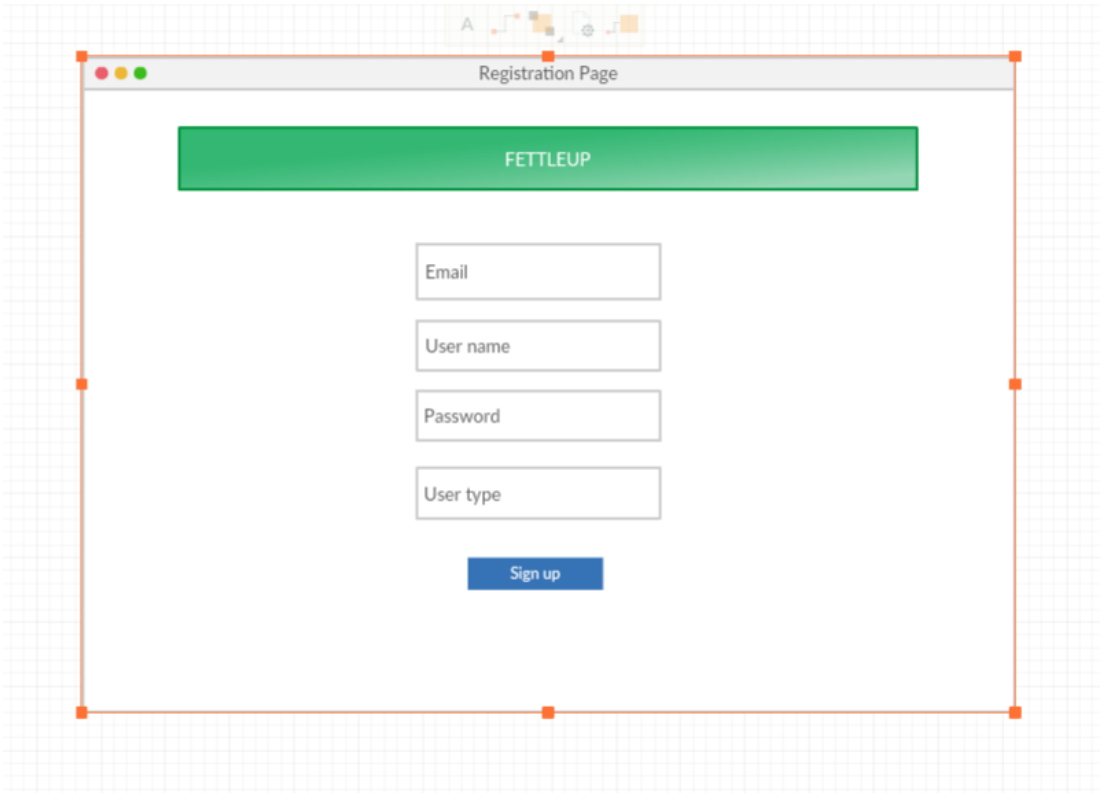
Detail Design of Features (using tools)

Wireframes

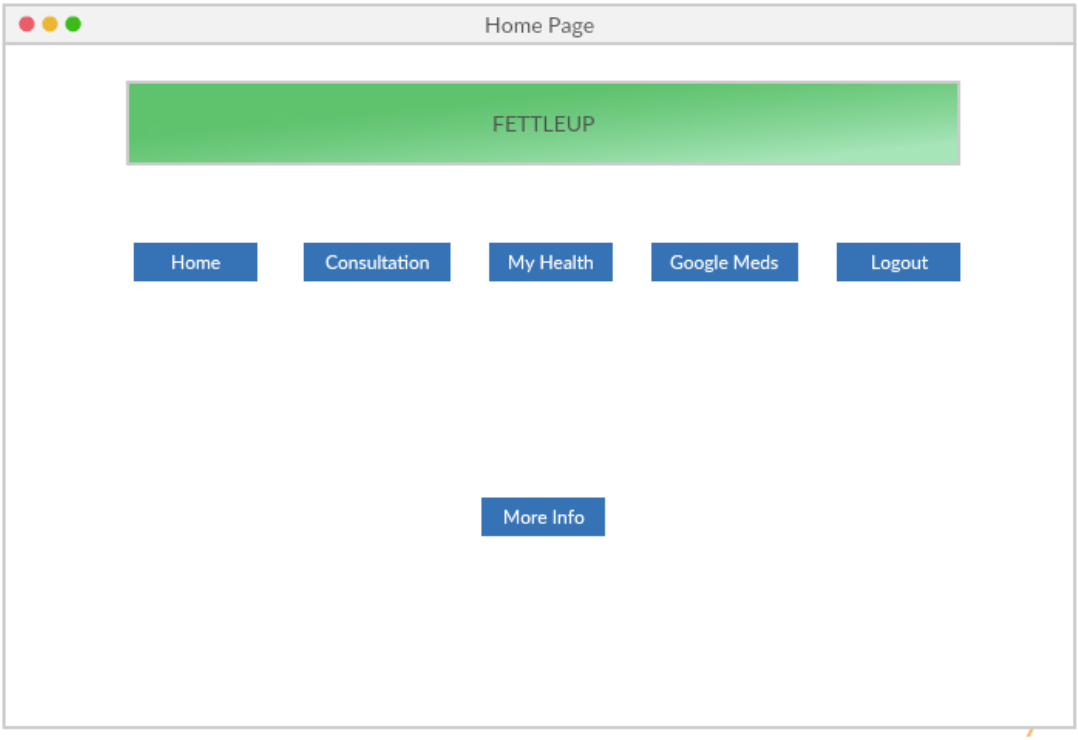
Login Page Wireframe:



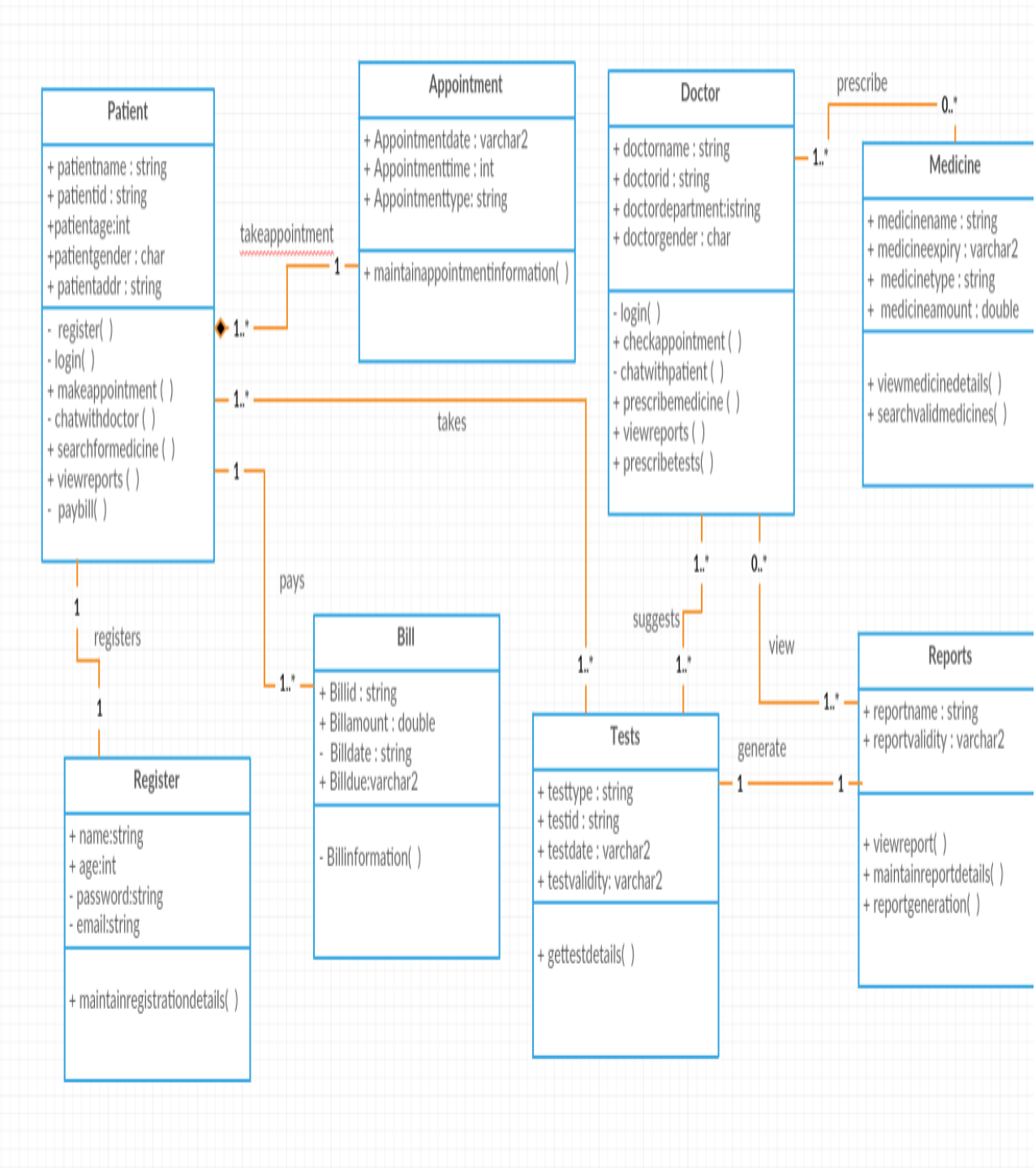
Register Page Wireframe:



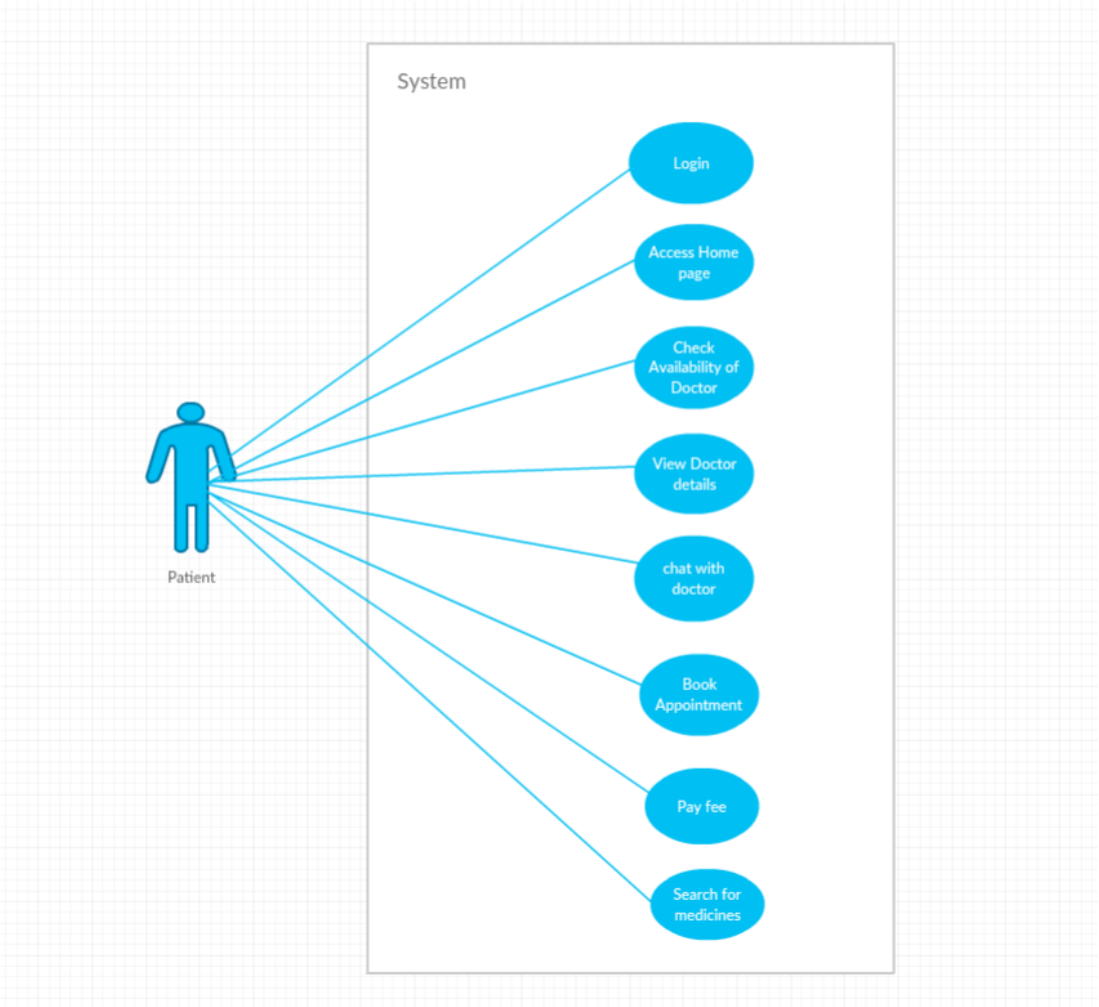
Home Page Wireframe:

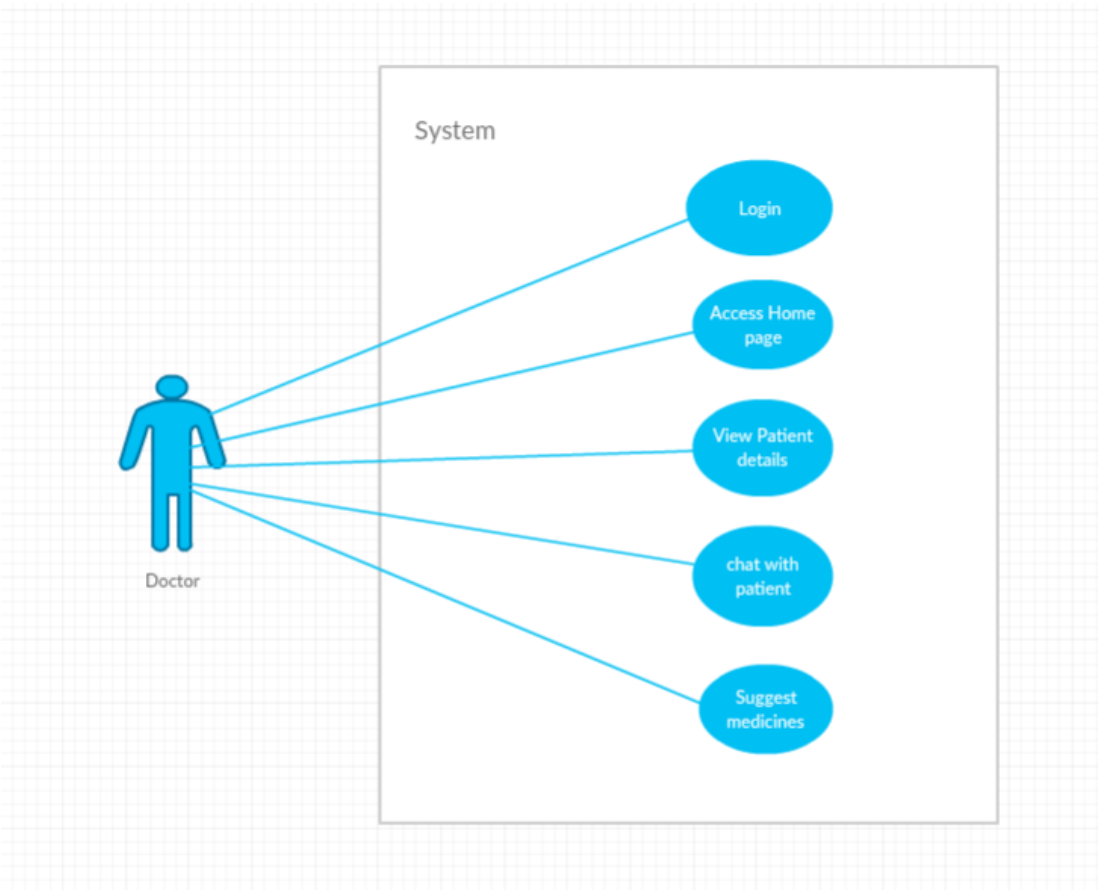


Class Diagram

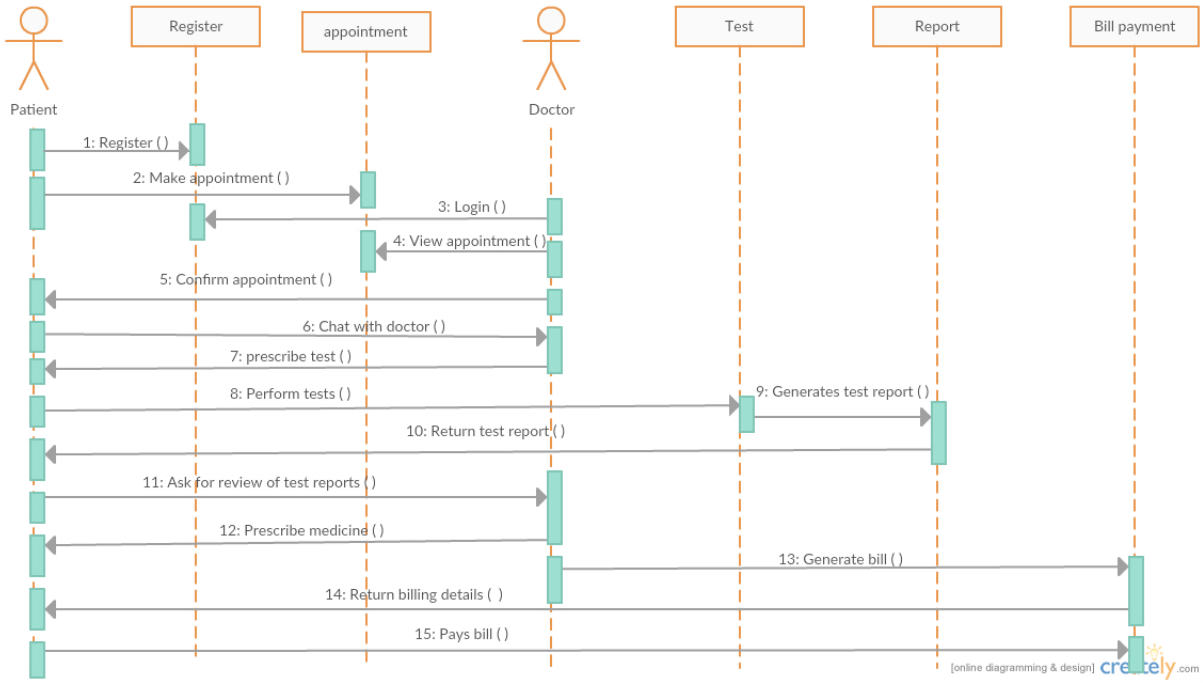


Usecase Diagram

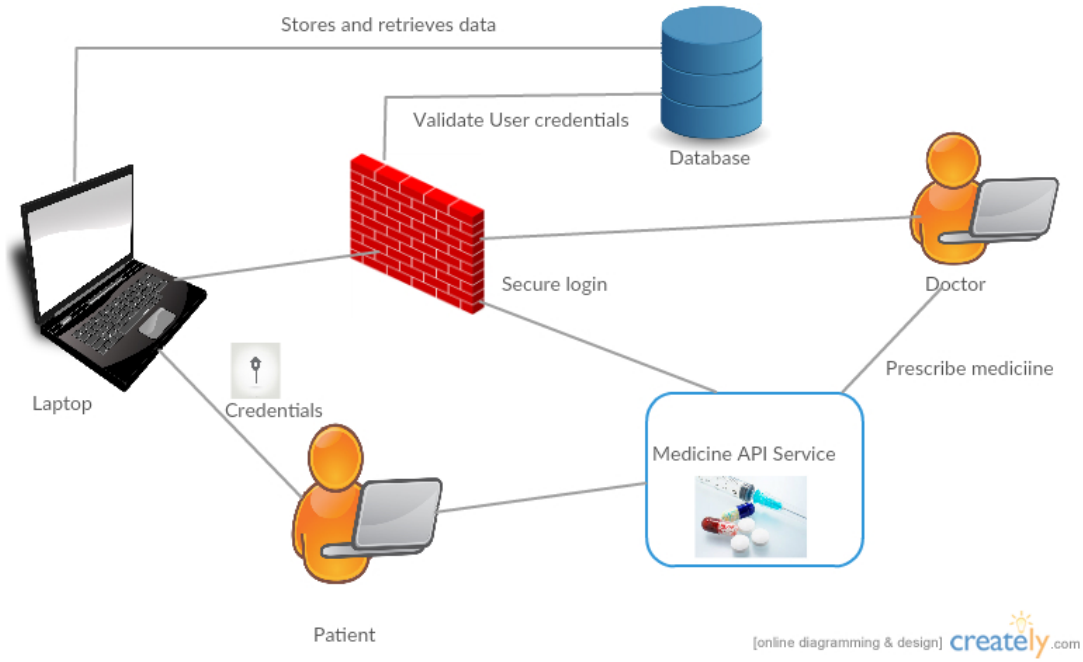



System
Login
Access Home page
View Patient details
chat with patient
Suggest medicines
Doctor

Sequence Diagram



Architecture Diagram



User Stories

As a	I want to	So that
User	Book an appointment for consultation	I can discuss my condition with the doctor.
User	Chat with the designated person	I can able to get the help during emergency.
User	Search for a nearby pharmacy store	I'll be able to reach them without hurry.
User	Upload my documents in the website	My doctor can view health condition and other general information.
User	Search for a nearby doctor	I'll be able to reach him quickly in an emergency situation.

Unit Testing

Test cases for Login and Sign Up Pages

Case	Test Case Description	Expected Result	Actual Result	Result
Login	Invalid Username and Invalid Password	Error Message should pop up, stating that invalid credentials and Re-enter valid credentials.	Error Message should pop up, stating that invalid credentials and Re-enter valid credentials.	Pass
Login	Invalid Username and Valid Password	Error Message should pop up, stating that	Error Message should pop up, stating that	Pass

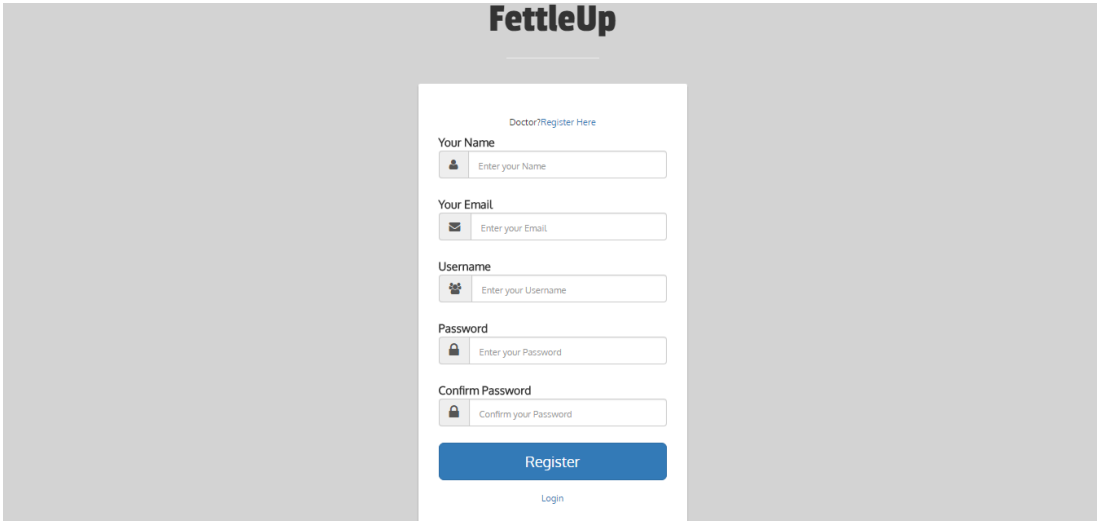
		invalid credentials and Re-enter valid credentials.	invalid credentials and Re-enter valid credentials.	
Login	Valid Username and Invalid Password	Error Message should pop up, stating that invalid credentials and Re-enter valid credentials.	Error Message should pop up, stating that invalid credentials and Re-enter valid credentials.	Pass
Login	Valid Username and Valid Password	Re-direct to Home Page.	Re-direct to Home Page.	Pass
Signup	Must satisfy email ID format	Error Message is please enter a valid email ID.	Error Message is please enter a valid email ID.	Pass
Signup	Satisfy password length to be greater than 8	Error Message is please enter a valid password.	Error Message is please enter a valid password.	Pass
Signup	Password and confirm password fields must	Error Message is passwords are not same.	Error Message is passwords are not same.	Pass

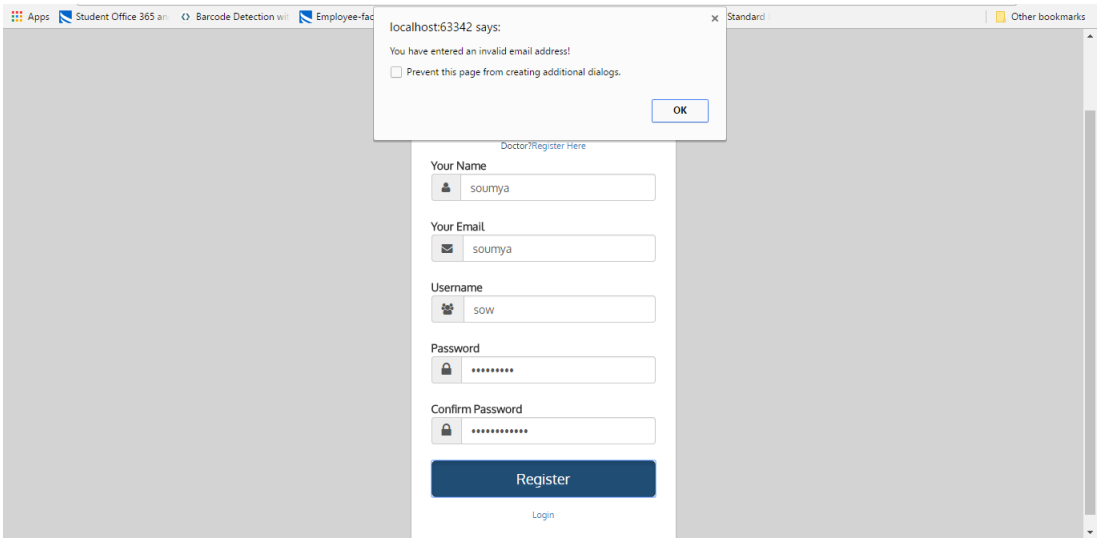
5. Implementation and Deployment

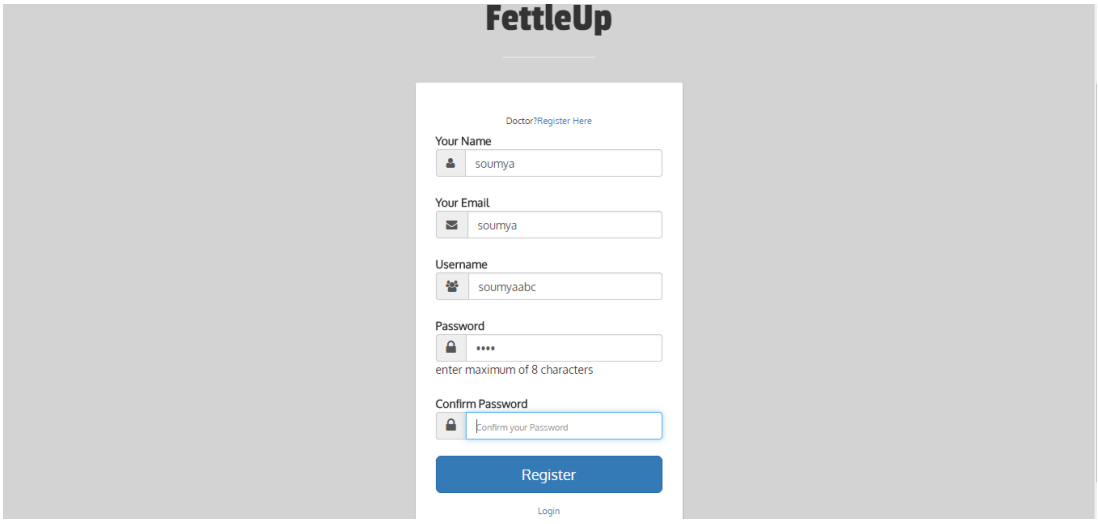
We have implemented our web application using the mentioned API's and modules. The process flow of the application can be viewed in the below screenshots,

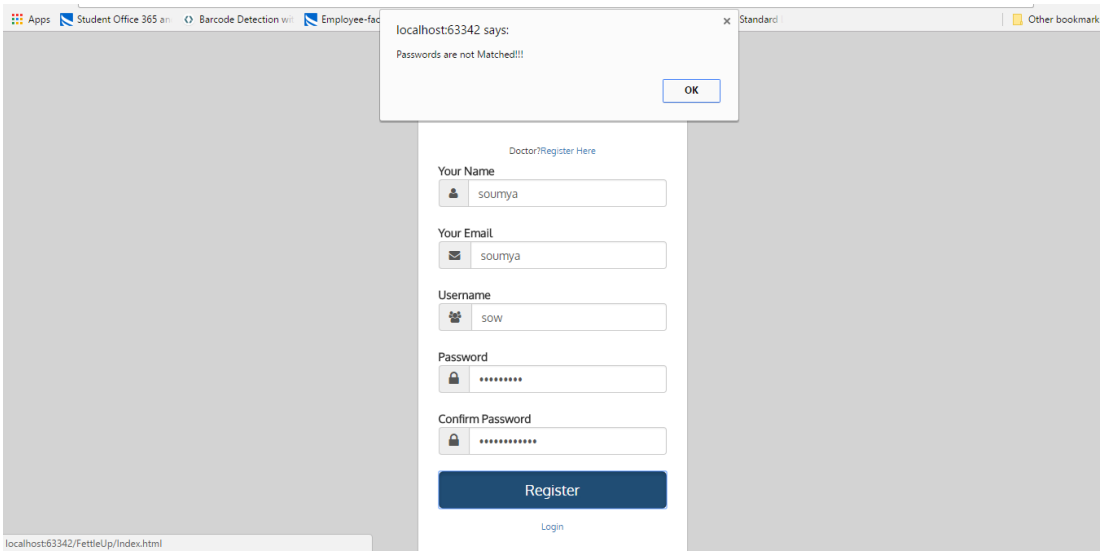
- The Login Page design and fields for user input are given in the FettleUp application. It also consists of Facebook and Google API's for user to sign in with their respective credentials.

- The Registration Page for new users consists of different fields in which they have to enter all of them to process for the access of FettleUp services. Validation is done for email ID, password and blank fields in this module. The screenshots of Registration Page and all validations can be observed below,

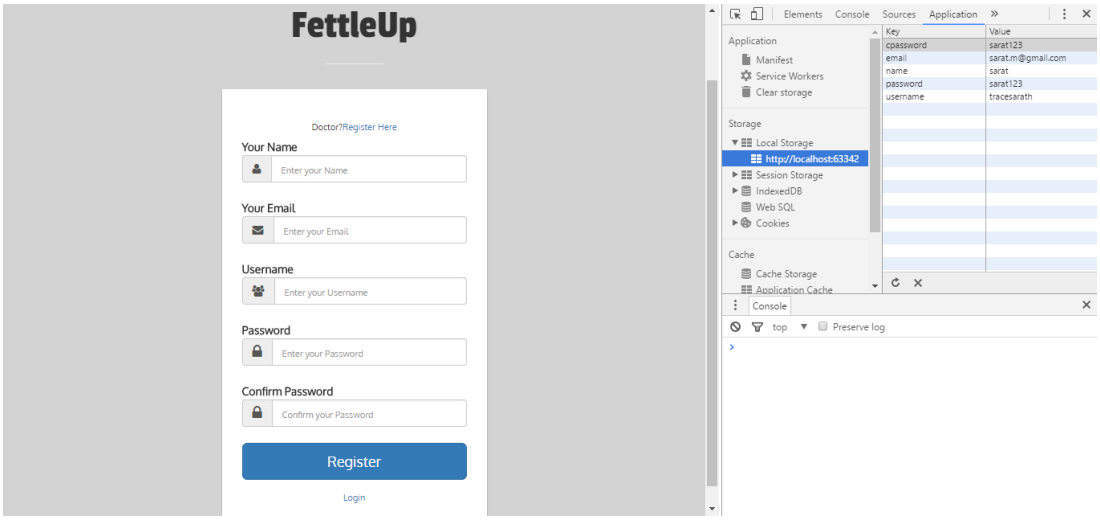

FettleUp
Doctor?Register Here
Your Name
Enter your Name
Your Email
Enter your Email
Username
Enter your Username
Password
Enter your Password
Confirm Password
Confirm your Password
Register
Login


Apps
Student Office 365 an
Barcode Detection wit
Employee-fac
Standard
Other bookmarks
localhost:63342 says:
You have entered an invalid email address!
Prevent this page from creating additional dialogs.
OK
Doctor?Register Here
Your Name
soumya
Your Email
soumya
Username
sow
Password
Confirm Password
Register
Login

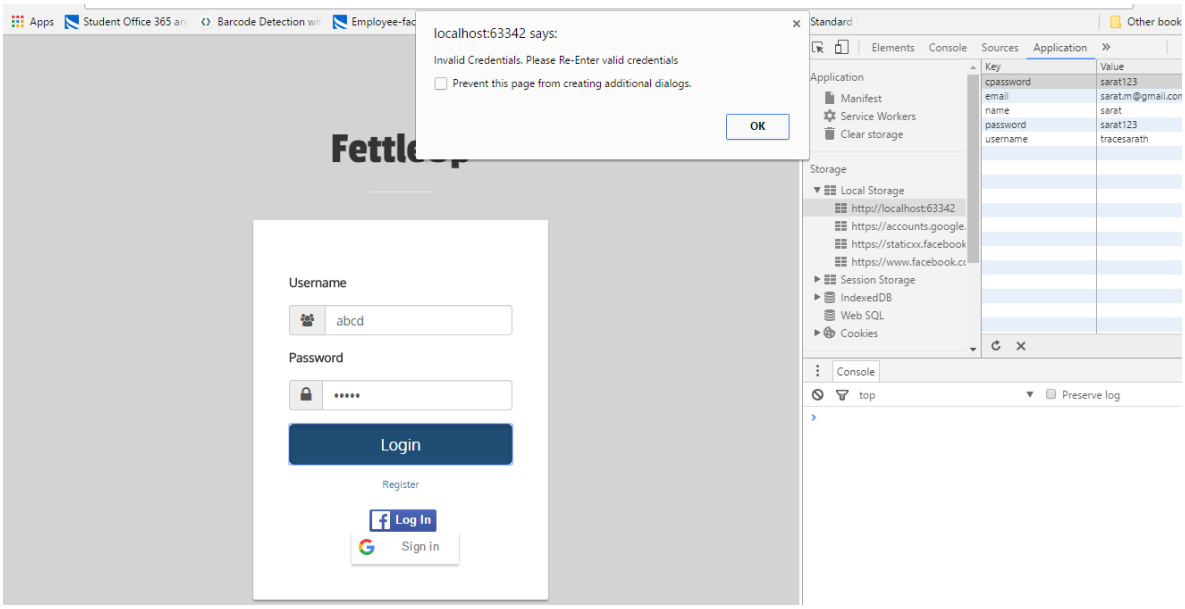

FettleUp
Doctor?Register Here
Your Name
soumya
Your Email
soumya
Username
soumyaabc
Password
enter maximum of 8 characters
Confirm Password
Confirm your Password
Register
Login

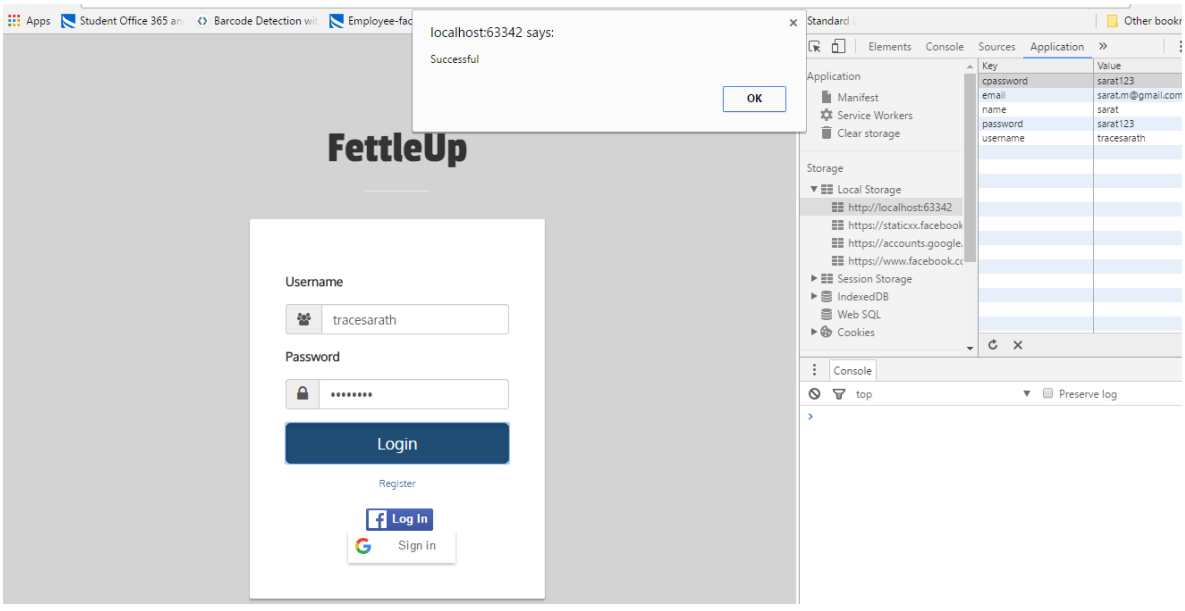


- On successful registration the details of the user are stored in the local storage of the browser, which are used for future login authentication. Below screenshot will give you details,

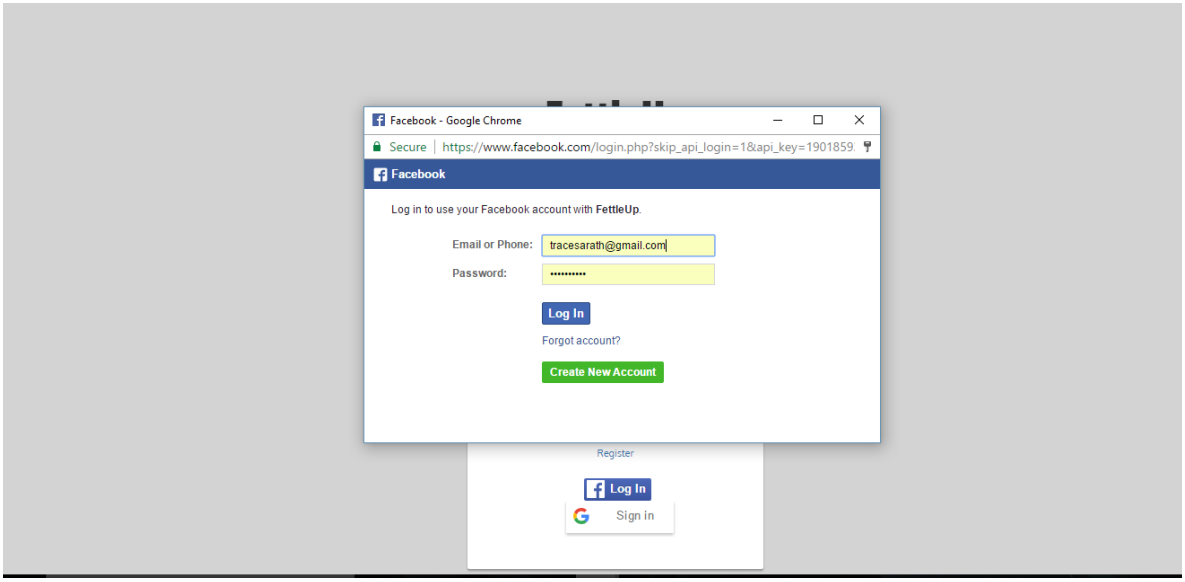


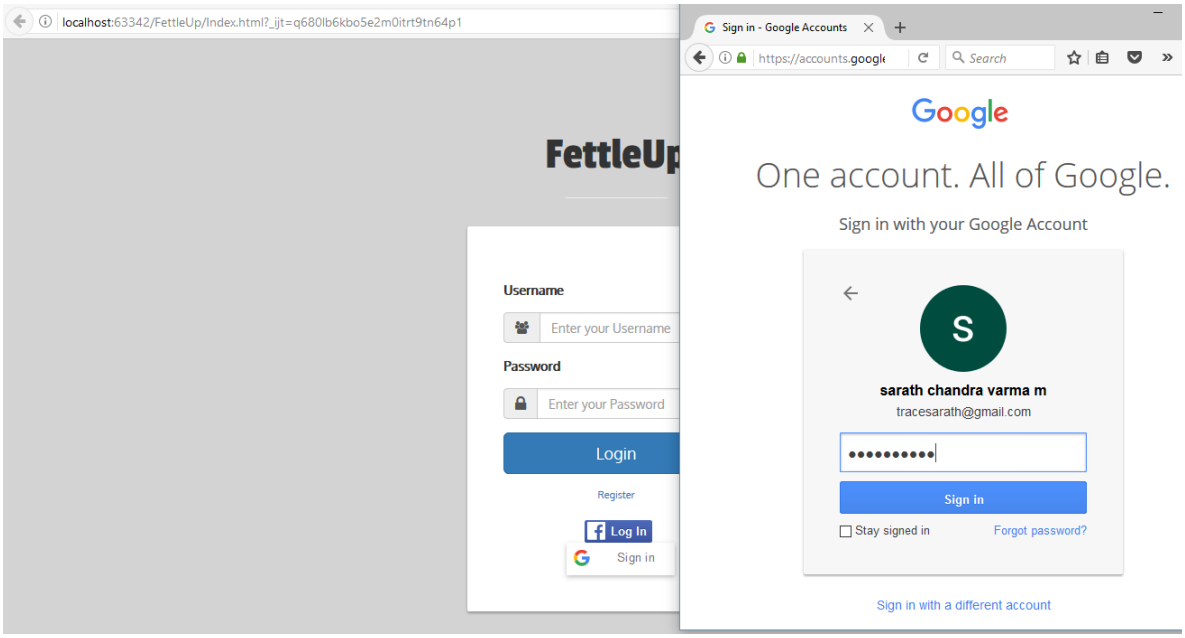
- Now, user will give the registered details for accessing the FettleUp application system. Below are the screenshots for validation of Login Page and success pop up window,



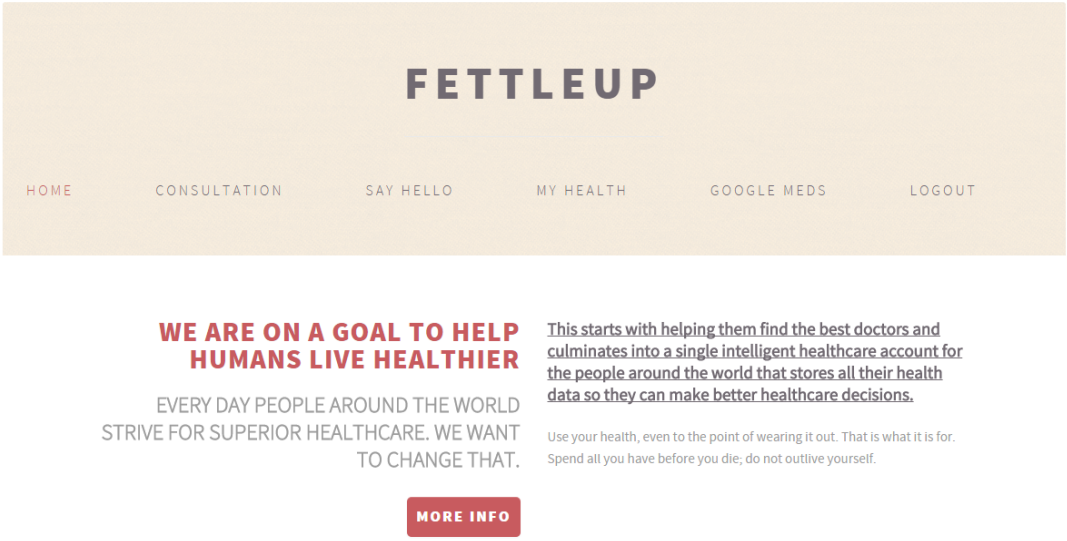


- Facebook and Google API’s screenshots are given below,





- On successful user login it redirects to main home page of FettleUp where user can be able to access all resources of the application,



Github Wiki Page

The github wiki page URL for the screenshots and the process flow is updated in the following link

- https://github.com/SaratM34/ASE-Final-Project/wiki/Project-Increment-1

6. Project Management

Implementation Status Report

Technologies Used

We have collaborated various technologies in the development of the project and in building the application. Some of them are,

- HTML5
- CSS3
- Angular JS
- JavaScript

Work Completed

The completed tasks in this increment are,

- Design and implementation of Login and Register Pages,
- Design and base layout of the Home Page,
- Architecture and flow of the application is defined,
- API’s are successfully integrated in the application.

Work to be Completed

The work to be completed for next increment is,

- Adding the layout and designing for remaining pages,
- Navigation through hyper links,
- Integration of other Restful API’s,
- Minor changes to user interface.

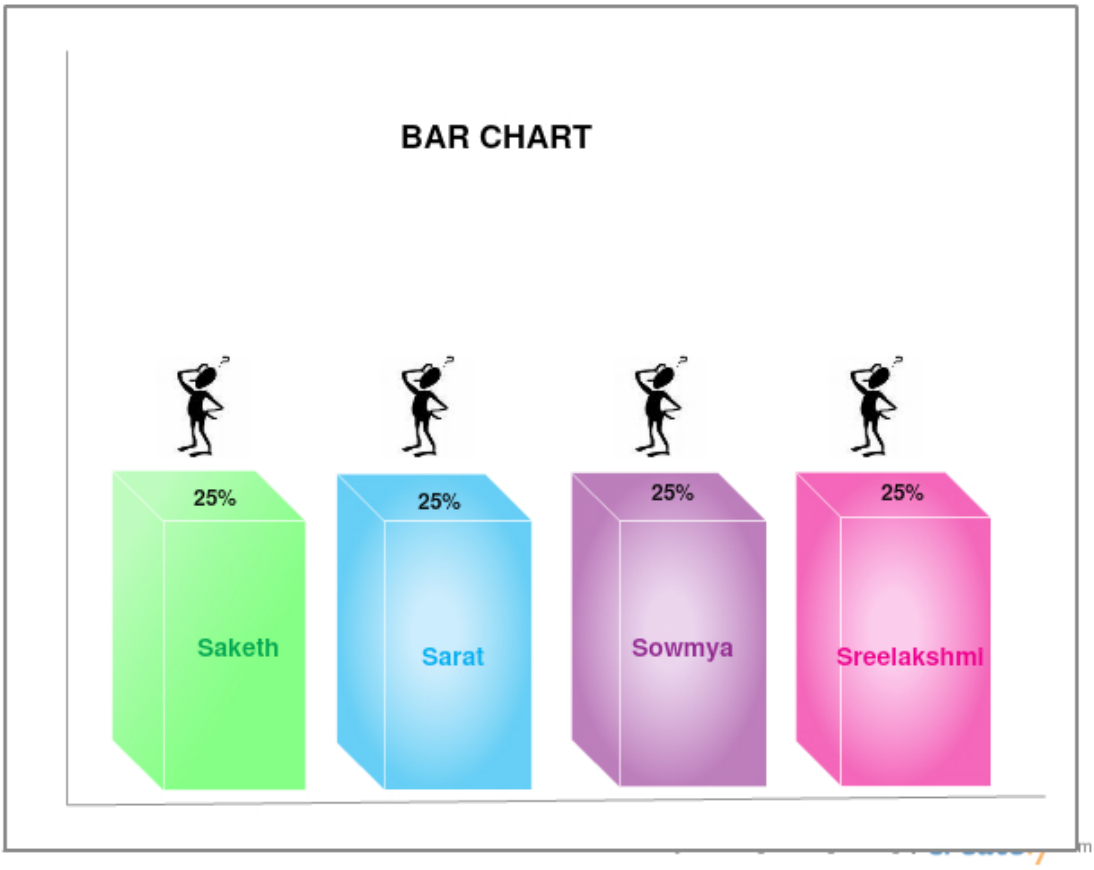
Responsibility and Time Taken

- Login Page, Sarat 1 hr.
- Registration Page, Sarat 1 hr.
- Design Elements, Sree Lakshmi 1½ hr.
- UML Diagrams Creation, Sowmya 2 hr.
- Wireframes, Sree Lakshmi 1½ hr.
- Social Login OAuth, Sowmya 1½ hr.
- Integrating Pages, Sowmya ½ hr.
- Home Page, Saketh 1 hr.
- User Stories, Sree Lakshmi 1 hr.
- Unit Test cases, Saketh 1hr.
- Local Storage Implementation, Sarat 2 hr.
- Project Increment Report, Saketh 2 hr.

Contributors

- Saketh Garuda- **25%**
- Mudunuri Sri Sai Sarat Chandra Varma- **25%**
- Yalamanchili Sowmya- **25%**
- Nandanamudi Sreelakshmi- **25%**

Below is the bar graph that represents contribution of each person in the team towards project,



7. Bibliography

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2. www.bootstrap.com
3. www.bootsnipp.com
4. www.angularjs.org
5. www.developers.facebook.com
6. www.console.developers.google.com