

Advanced Software Engineering

Project Package

FettleUp



Team 8

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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-today 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.

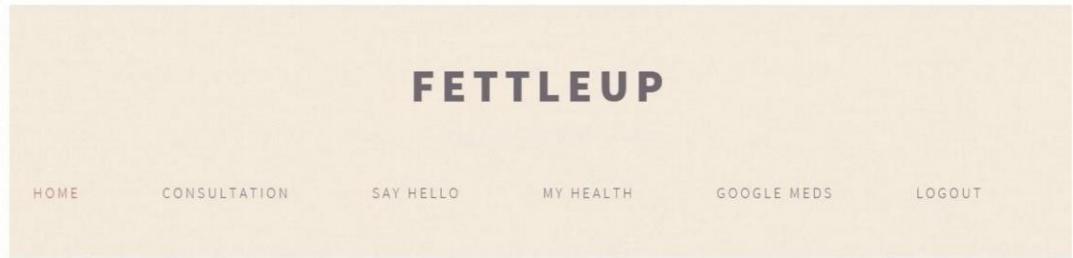
2.Project Deployment

Application: Our project is an web application which can be run on local host. For the working of chat feature, email notification and Database the respective node servers must be run on ports 3000, 4000.

- **2.1 Login Page:** This is the login page where the patient can login if the user is already registered. If not, the patient has to register first then he can login into the application.

- **2.2 Register Page:** This is the register page where the new user can login we have implemented form validation where user has to give correct credentials using which he can login.

- **2.3 Homepage:** This is the patient side homepage where he is redirected after successful login. The homepage has four features where user can utilize, the consultation page where he can see the available doctors, the say hello page where the patient can chat with the doctor regarding his health details and My Health page where user can upload his health details and doctor can view them and the google meds page where the user can locate nearby pharmacies.



WE ARE ON A GOAL TO HELP HUMANS LIVE HEALTHIER

EVERY DAY PEOPLE AROUND THE WORLD
STRIVE FOR SUPERIOR HEALTHCARE. WE WANT
TO CHANGE THAT.

This starts with helping them find the best doctors and culminates into a single intelligent healthcare account for the people around the world that stores all their health data so they can make better healthcare decisions.

Use your health, even to the point of wearing it out. That is what it is for. Spend all you have before you die; do not outlive yourself.

[MORE INFO](#)

- **2.4 Consultation Page:** This is the consultation page where user can choose the doctor and click on Book Appointment button to book an appointment.

The screenshot shows the consultation page of the FETTLEUP app. The top navigation bar is identical to the homepage. Below it, there are three doctor profiles listed vertically:

- Dr. Antony**
MBBS,MD & Psychiatrist Neuro Psychiatrist
Research Psychiatric Centre
Kansas City
- Dr. Richards**
MBBS,MD - Obstetrics & Gynaecology General Physician
Saint Luke's Hospital
Kansas City
- Dr. Stephanie**

Each doctor profile includes a "BOOK APPOINTMENT" button in a red box. To the right of the "Dr. Antony" profile, there is additional information: "100 \$", "MON-FRI", and "BOOK APPOINTMENT" again. To the right of the "Dr. Richards" profile, there is additional information: "300 \$", "MON-WED", and "BOOK APPOINTMENT" again. To the right of the "Dr. Stephanie" profile, there is additional information: "BOOK APPOINTMENT" and "BOOK APPOINTMENT" again.

- **2.5 Book Appointment Page:** This is the book appointment page where user can enter his details and select time to book an appointment with the doctor after successful booking an email will be sent to doctor regarding the appointment with user details.

Consultation

localhost:63342/FettleUp/BookAppointment1.html

Name:

Phone:

Email Address:

Date of Birth: DD/MM/YYYY

Appointment Date: DD/MM/YYYY

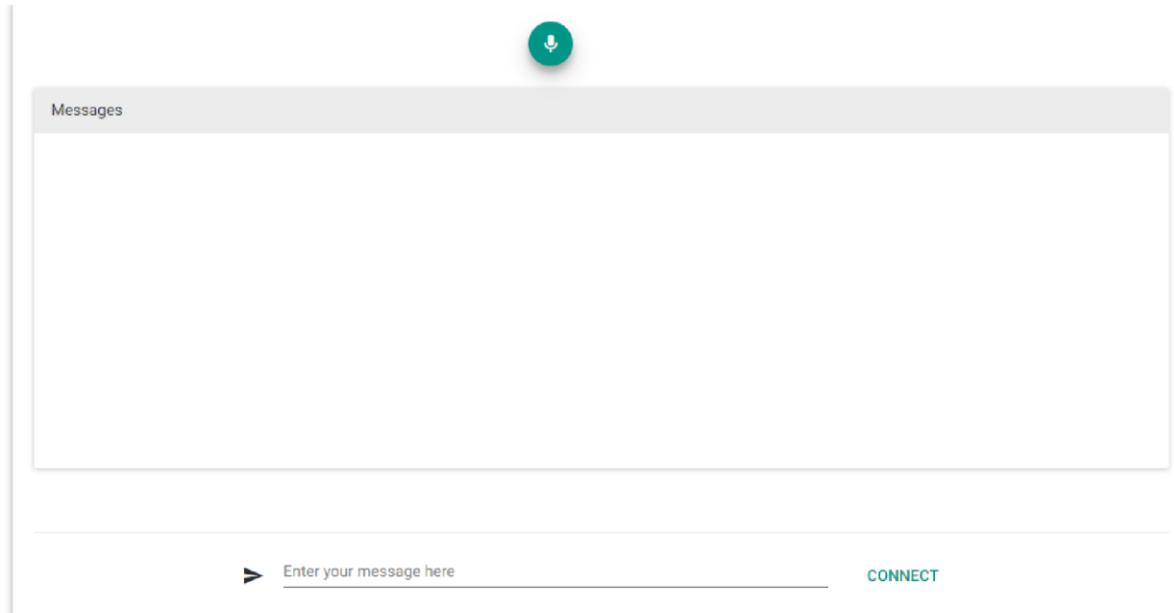
Booked with us Before?

Yes
 No

Message:

CONFIRM

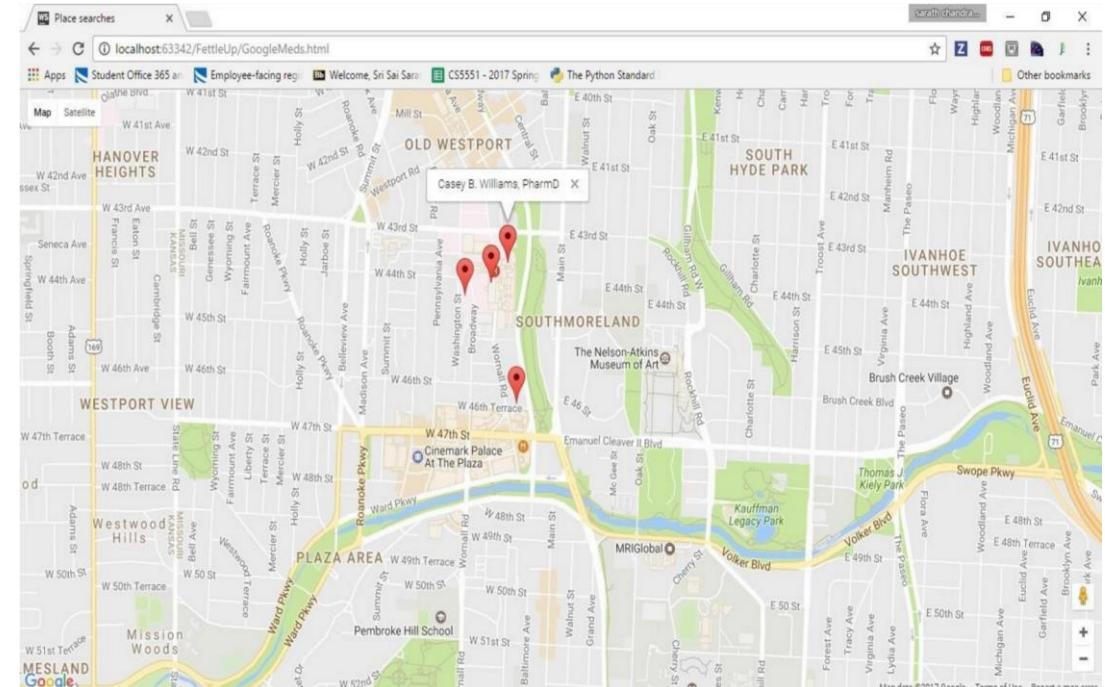
- **2.6 Say Hello Page:** The SayHello page is an chat application where the patient can chat with doctor by either typing or by just speaking as we have implemented speech to text in this application.



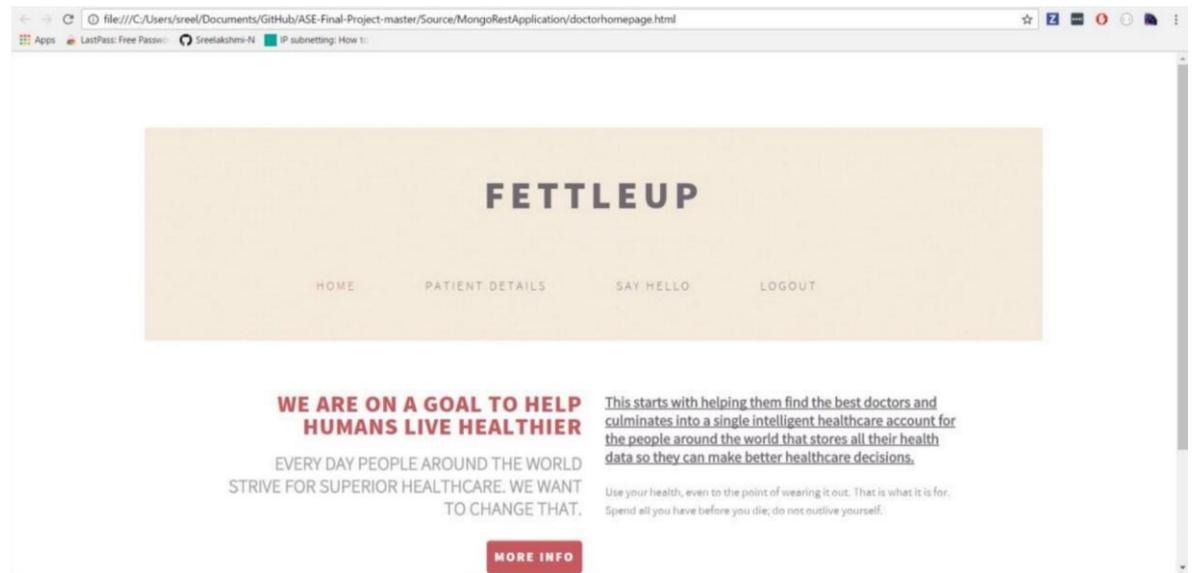
- **2.7 My Health Page:** This is the my health page where user can upload his health details and doctor can view from his side.

The screenshot shows a web browser window titled "Patient Details". The URL in the address bar is "localhost:63342/FettleUp/MongoRestApplication/Myhealth.html". A message box in the top right corner says "localhost:63342 says: successfully uploaded" with an "OK" button. The main form has fields for "Enter patient Name:" (varma), "Enter Phonenumber:" (7856543211), "Enter Email Address:" (varma@gmail.com), "Enter Age:" (24), and "Enter disease symptoms:" (Testing). There is an "UPLOAD" button at the bottom.

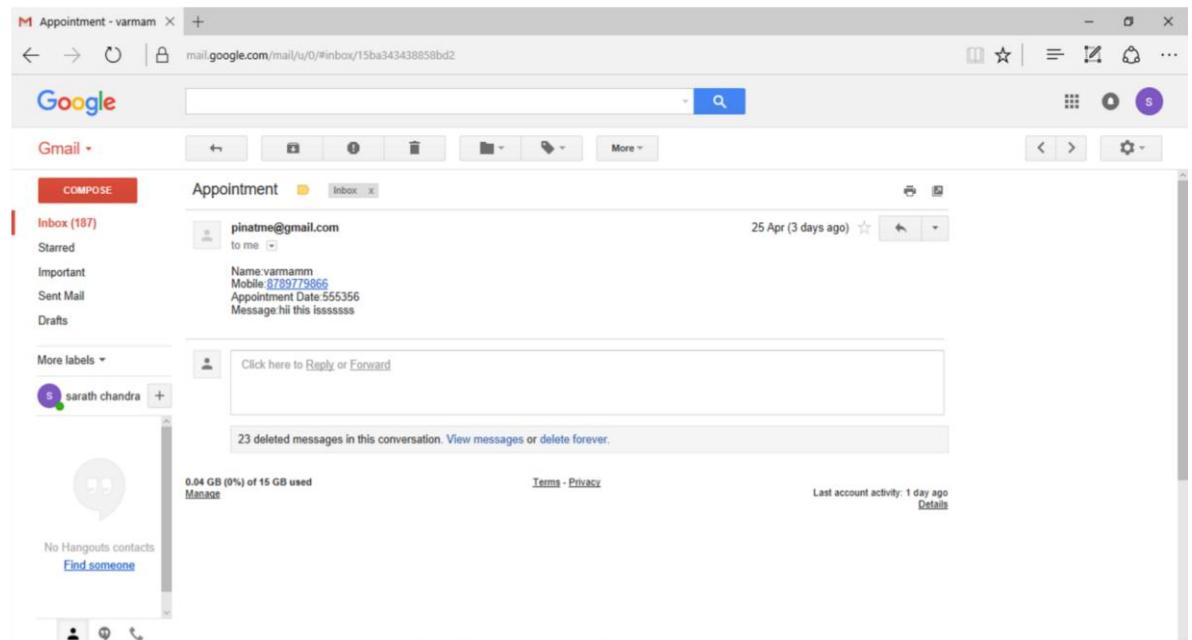
- **2.8 Google Meds Page:** This is the google meds page where user can locate nearby pharmacies.



- **2.9 Doctor Homepage:** This is the doctor's homepage where doctor can see on his side. He has two tabs one is patient details where doctor can view patient's uploaded health docs and say hello tab i.e. the chat application.



- **3.0 Doctor Email Confirmation:** This the email confirmation sent to doctor after successful appointment by the user.



- **3.1 Doctor Patient Details Page:** Health details page where doctor can view the patient's health details.

The screenshot shows a web browser window titled "Doctor Homepage" with the URL "localhost:63342/FettleUp/MongoRestApplication/doctor1.html". The page has a light beige header with the "FETTLEUP" logo in bold capital letters. Below the header is a navigation bar with links: "HOME", "PATIENT DETAILS", "SAY HELLO", and "LOGOUT". A table below the navigation bar displays patient information:

S.No	PatientName	Phonenumber	Email	Age	Disease Symptoms	ID
0	srath	7654325433	sarat.m@gmail.com	23	Test	58ec078cc79d0414686f6240
1	varma	7856543211	varma@gmail.com	24	Testing	58ec07c8c79d0414686f6241

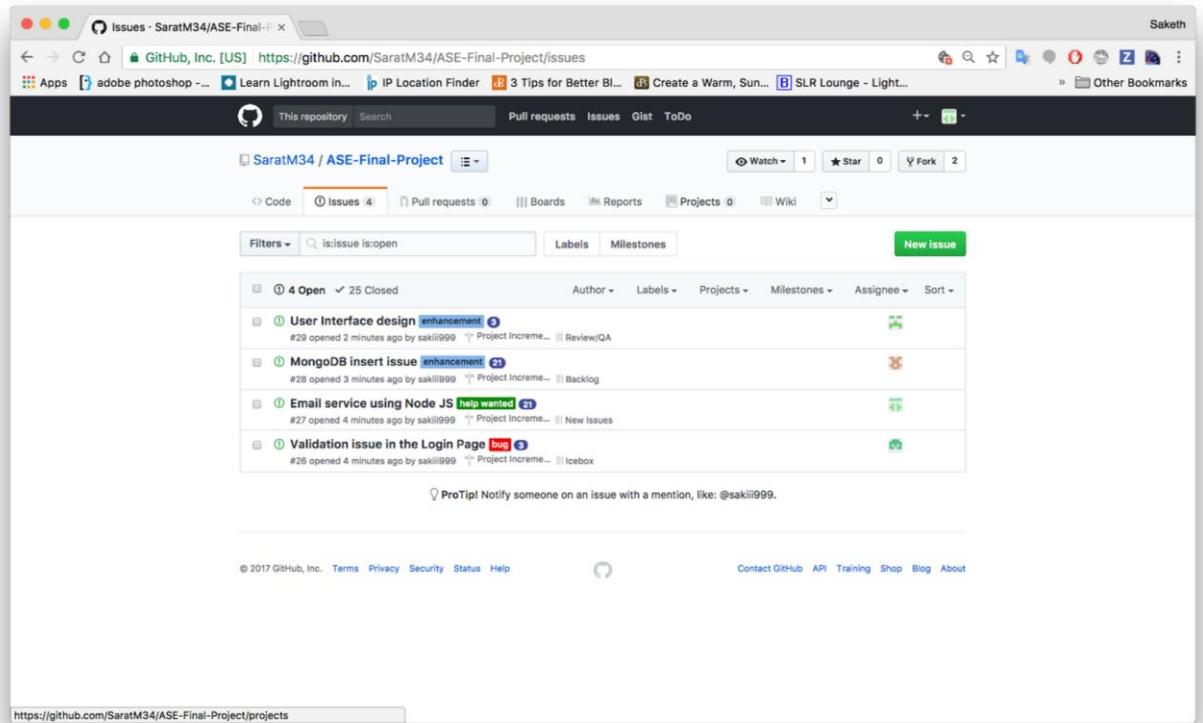
- **3.2 Doctor Chat Page:** Chat Page on the doctor where doctor can chat with the doctor.

The screenshot shows a "Messages" interface. At the top right is a green circular microphone icon. Below it is a large white input field labeled "Enter your message here". At the bottom right of the input field is a blue "CONNECT" button. The entire interface is set against a light gray background.

3. Project Plan:

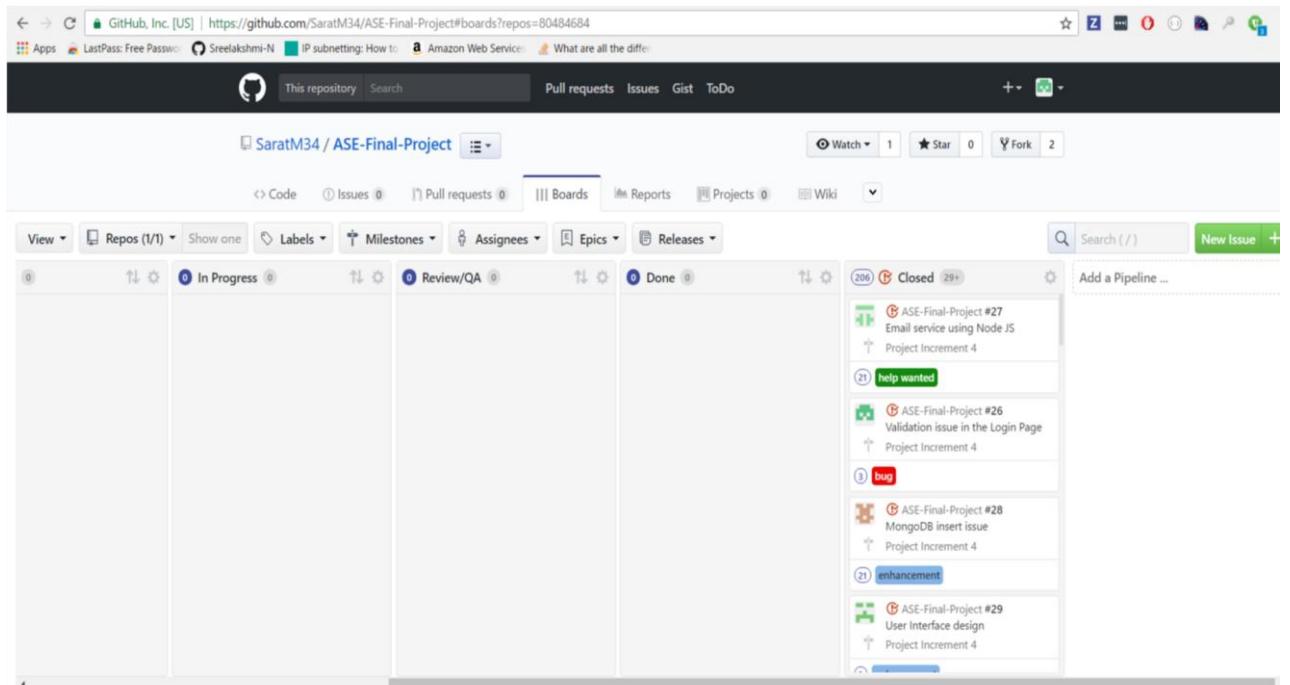
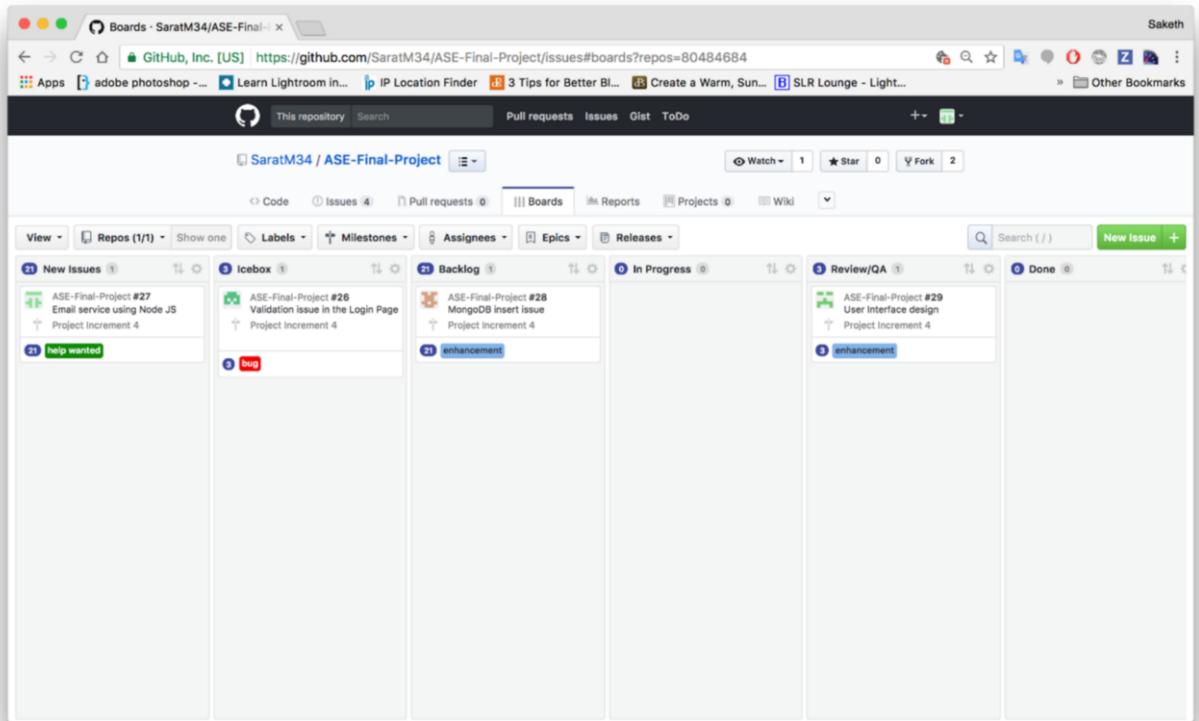
Zen-Hub Screenshot:

For the third increment we had issues regarding the functionality of Home page which includes text to speech API and implemented the database and writing unit test cases.



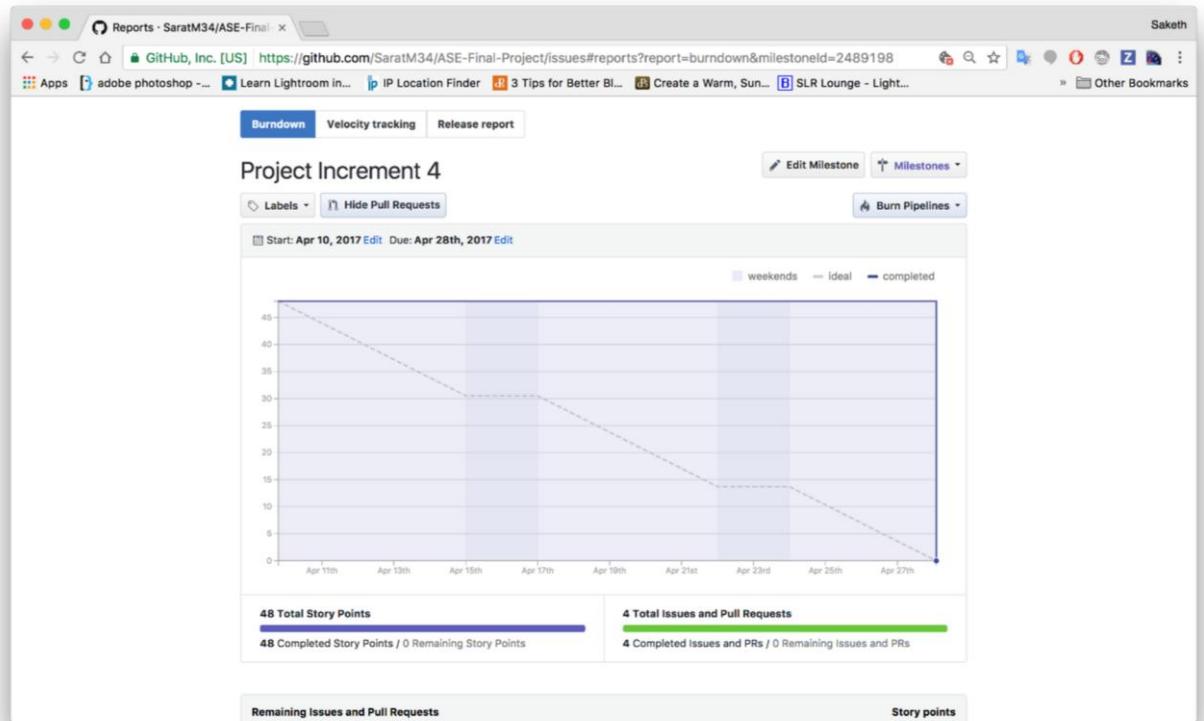
Project Timeline, Members and Task Responsibility

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. Project Goal and Objectives

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.

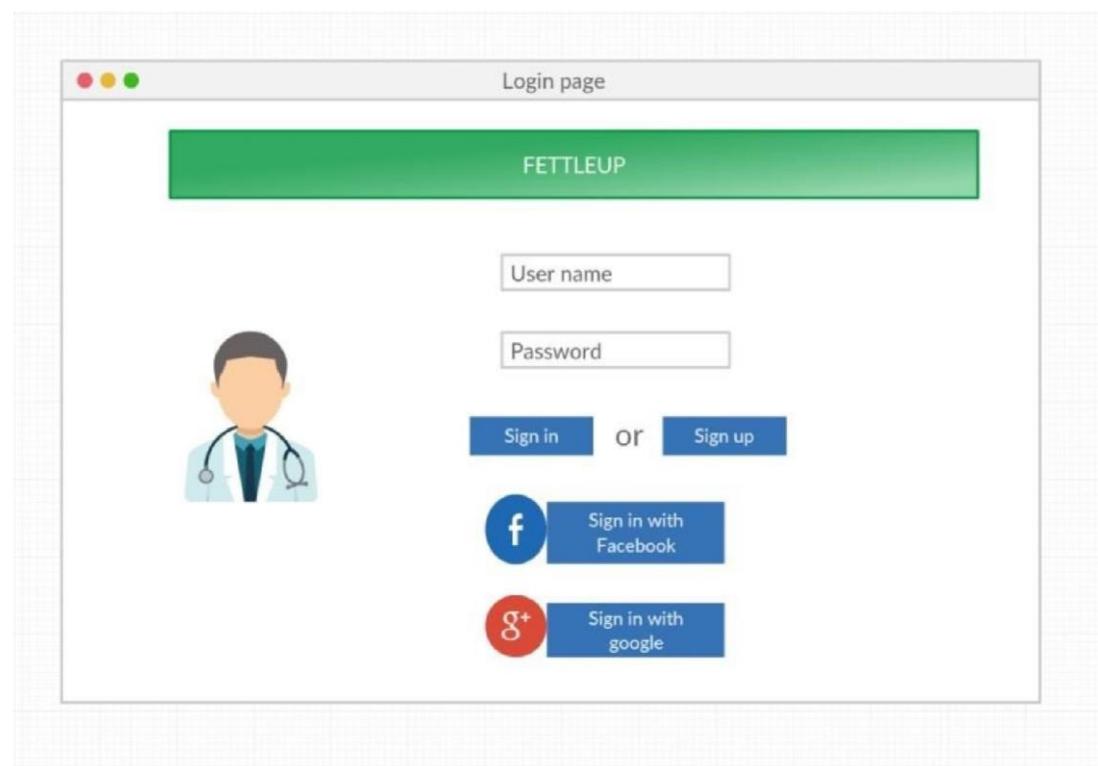
Therefore, this application will become the dominant form of interaction.

5. Project Design

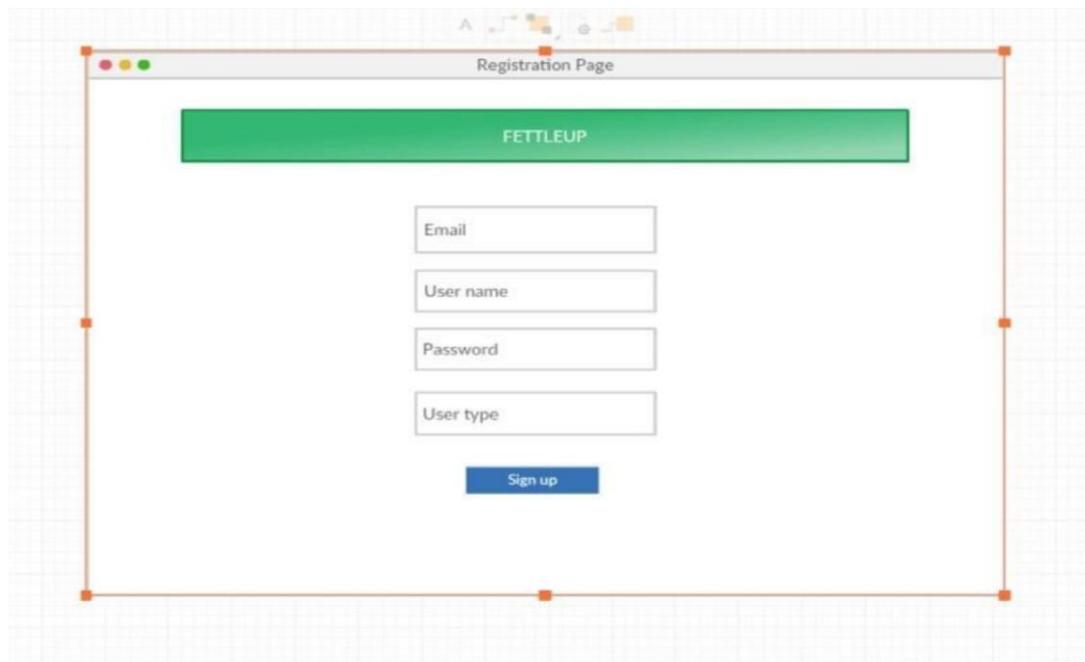
Detail Design of Features (using tools)

Wireframes

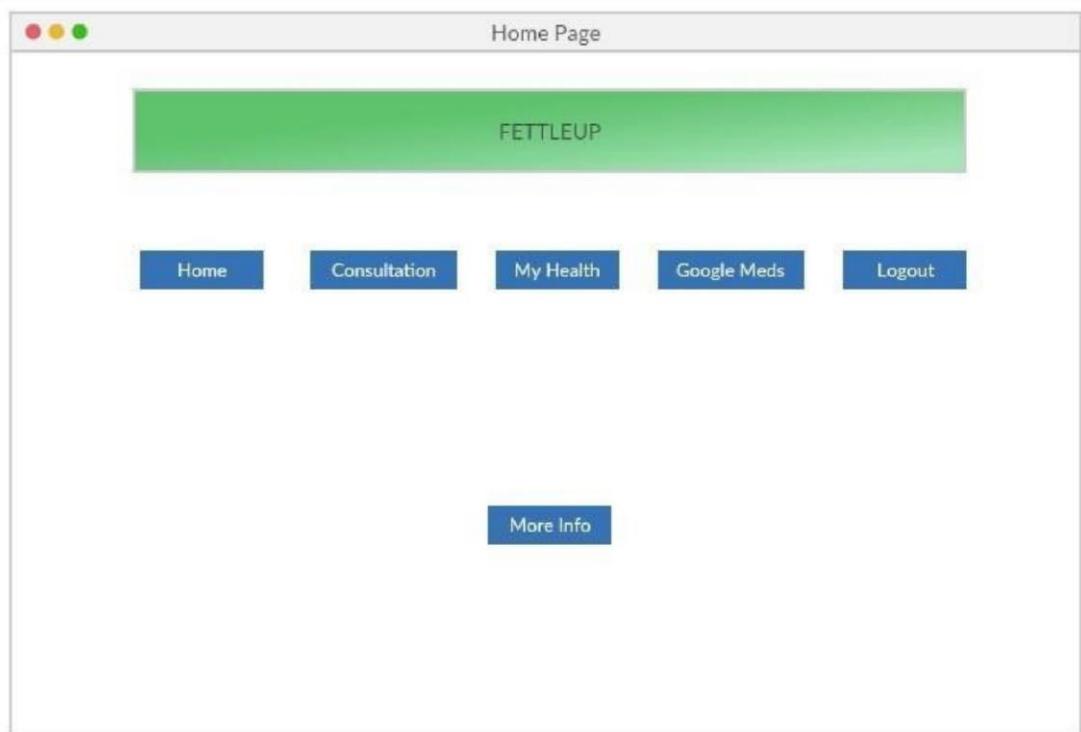
Login Page Wireframe:



Register Page Wireframe:



Patient Home Page Wireframe:



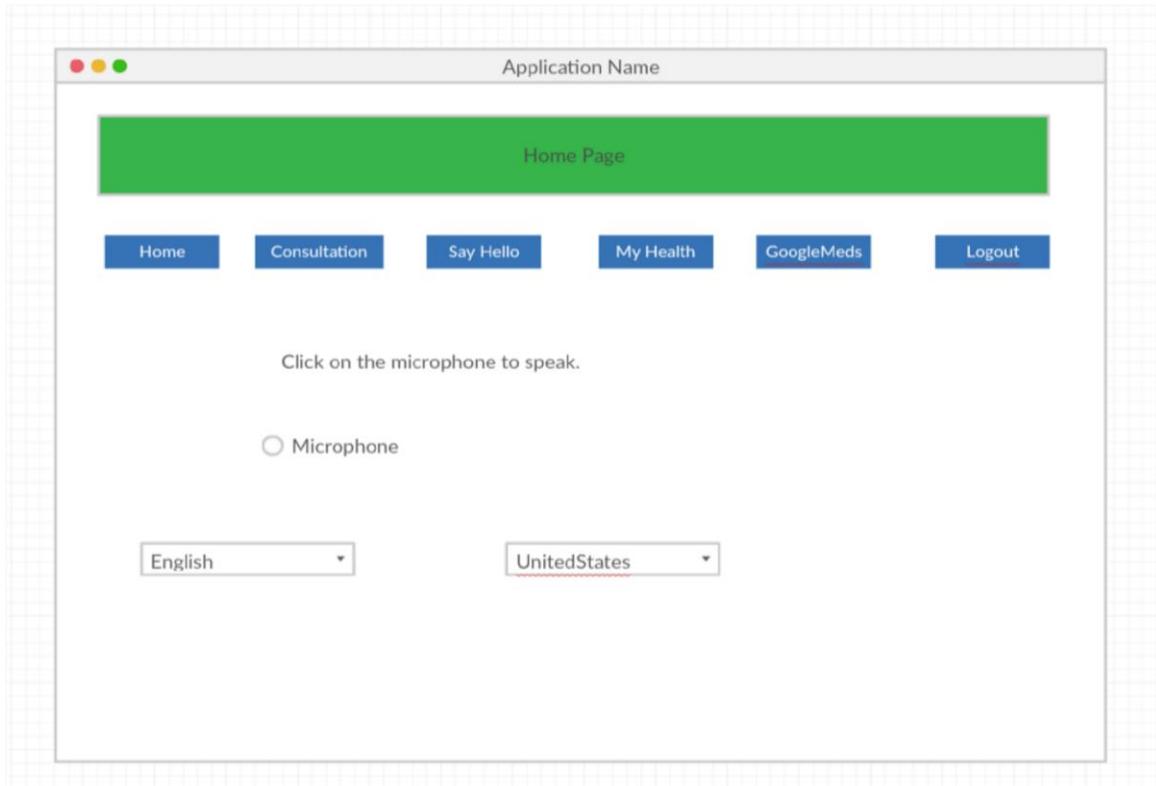
Consultation Page Wireframe:



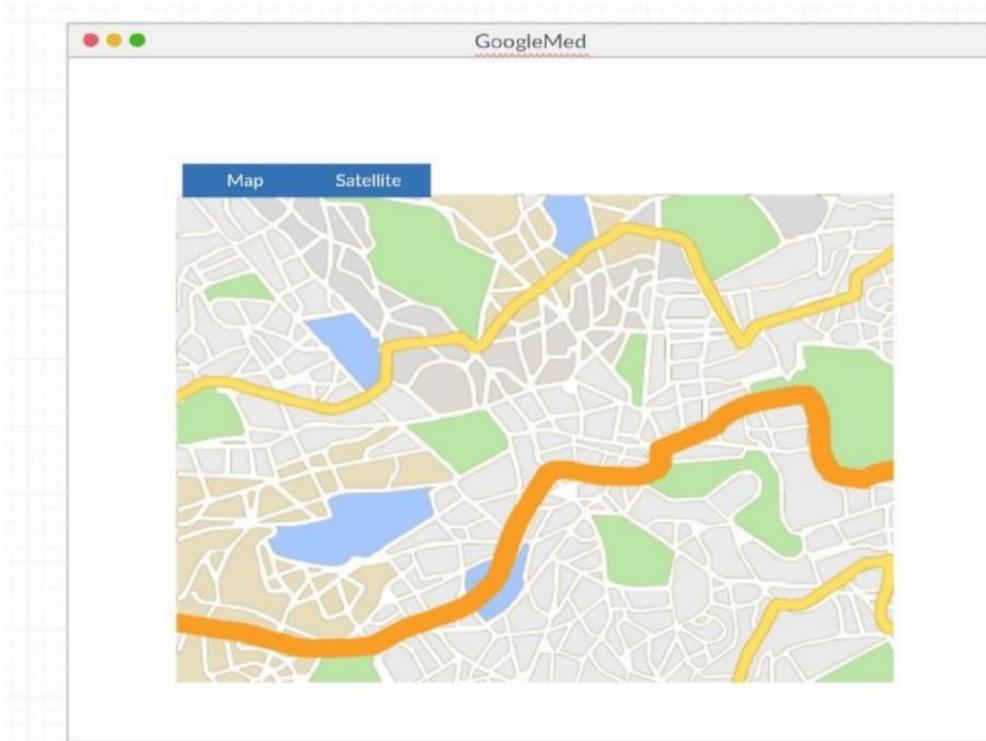
Book an Appointment Page Wireframe:

The wireframe shows a window titled "Home page" with a title bar containing three colored dots (red, yellow, green) and the text "Home page". Below the title bar is a header section with the text "Book an Appointment". The main content area contains five input fields: "Name" (text box), "Phone" (text box), "Email" (text box), "Date of Birth" (text box), and a large "Message" input area (text box). At the bottom right of the content area is a blue rectangular button labeled "Confirm".

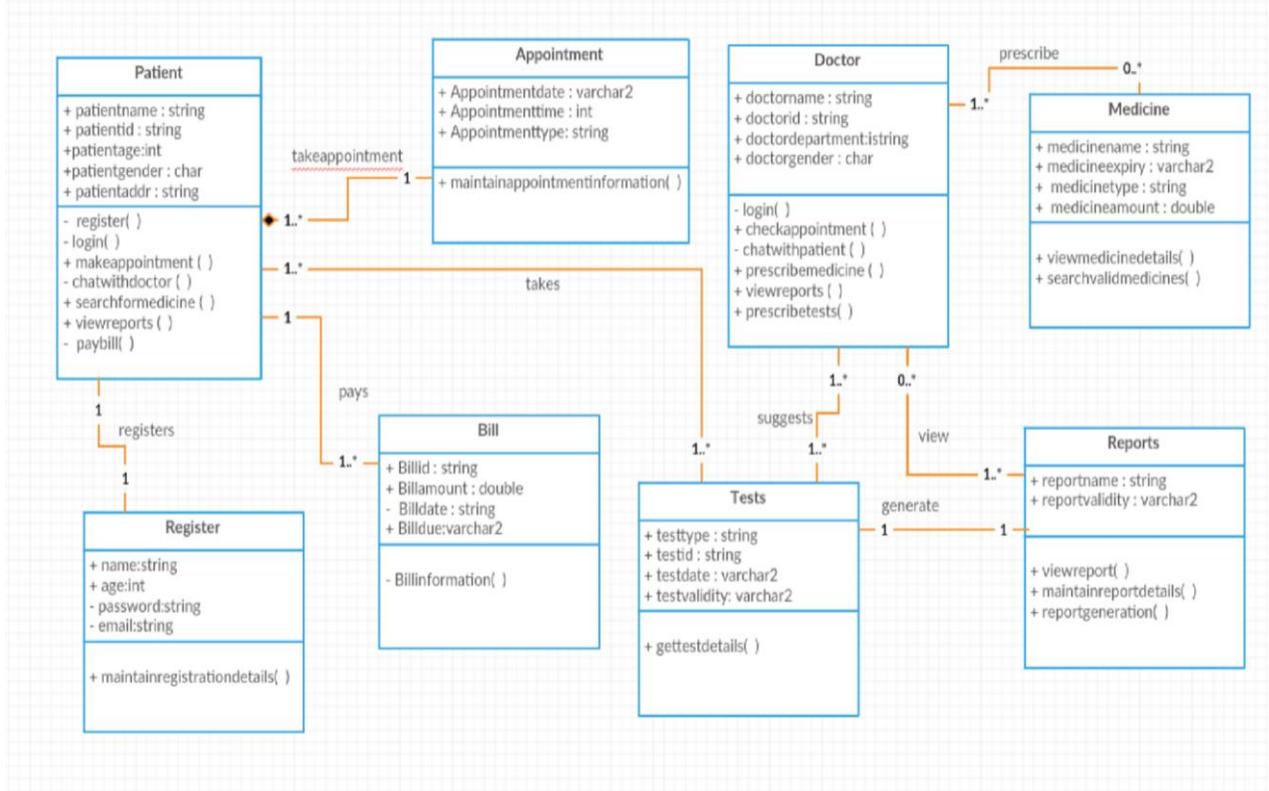
Say Hello Page Wireframe:



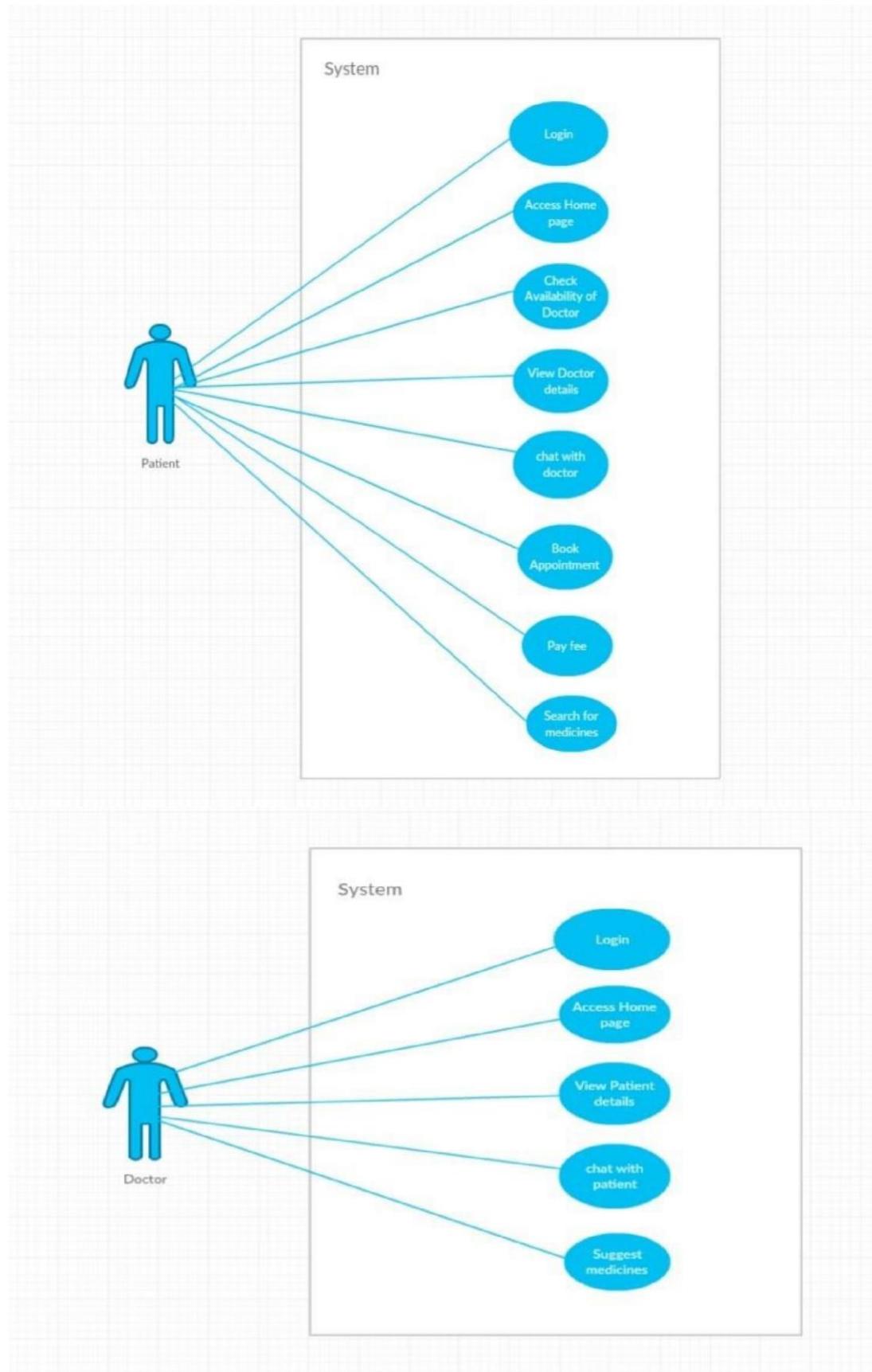
Google Meds Page Wireframe:



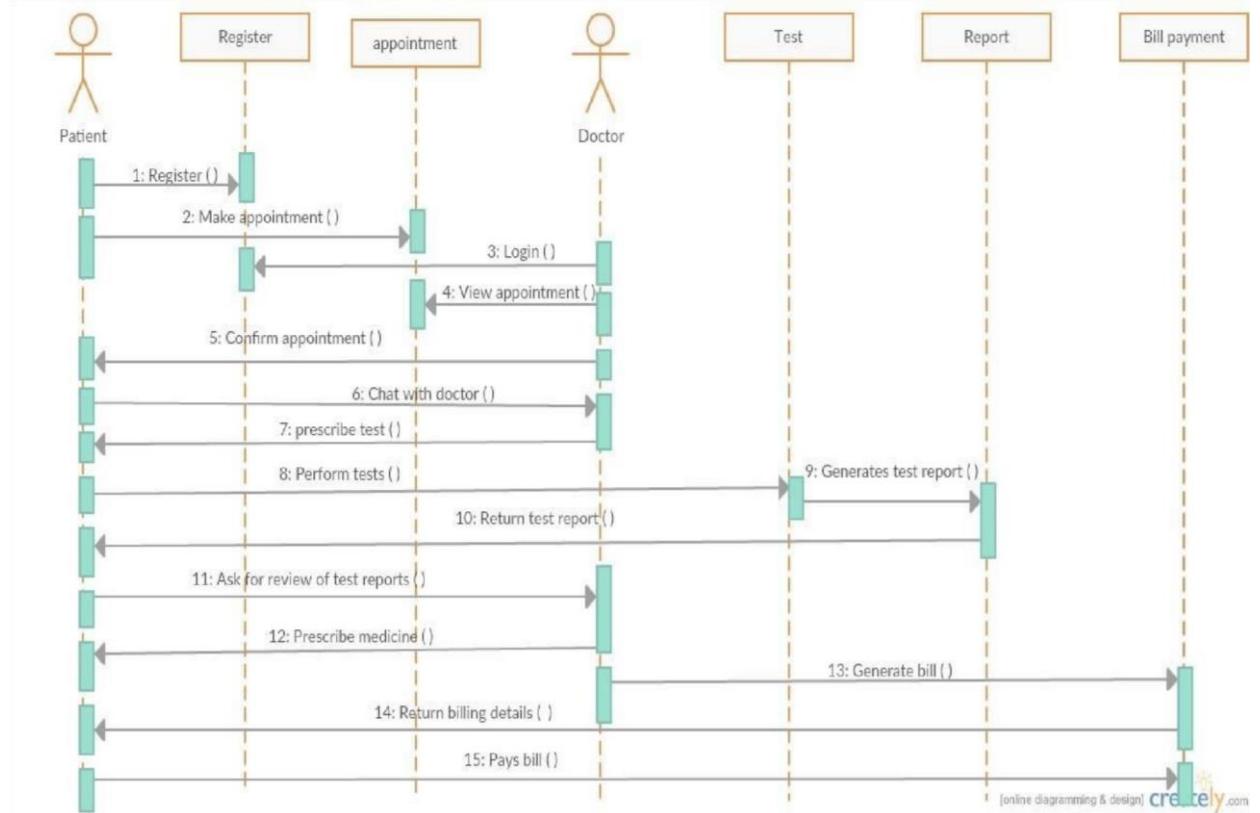
Class Diagram



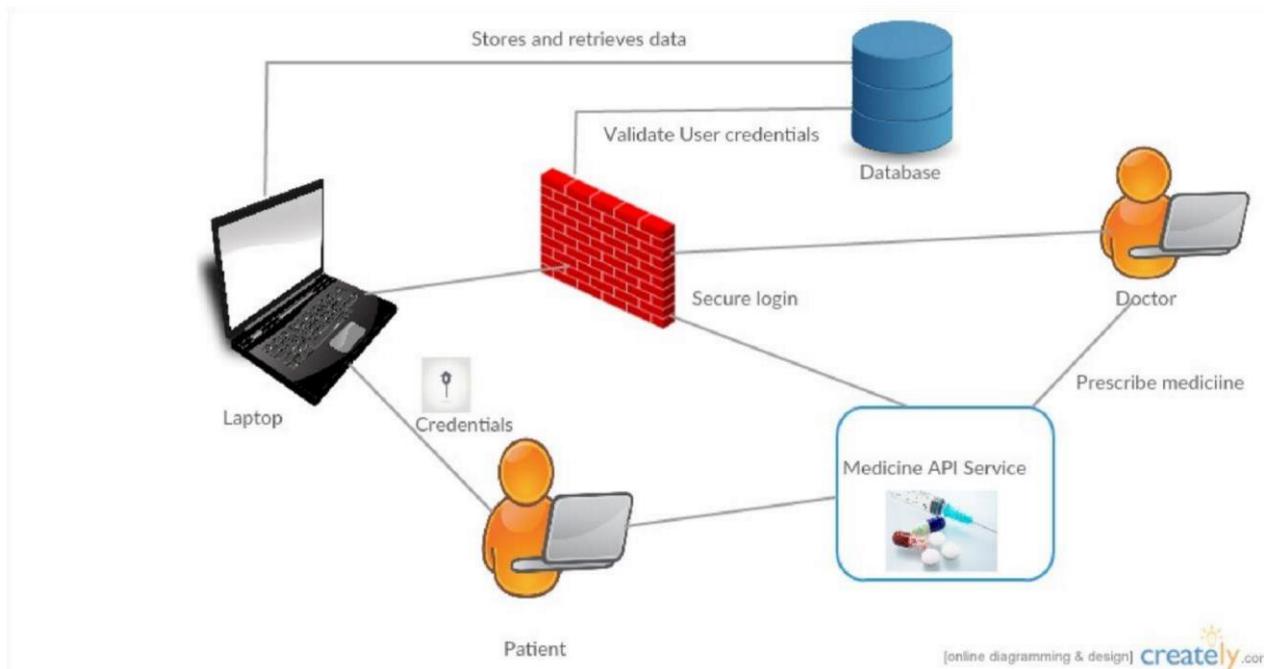
Usecase Diagram



Sequence Diagram



Architecture Diagram



Design Patterns

Pattern	Scenario
Creational - Builder	Share health condition with doctor in chat
Creational - Singleton	Every user have their own login credentials
Behavioral - Observer	Notification is sent as an Email
Behavioral – State	Chat status – online/offline
Structural - Facade	Using API we can use various functionalities
Structural – Flyweight	All patients health information can be shared to doctor

Singleton

- Ensure a class has only one instance, and provide a global point of access to it.

Builder

- Factory for building complex objects incrementally

Observer

- Dependents update automatically when a subject changes

State

- Object whose behavior depends on its state

Facade

- Facade simplifies the interface for a subsystem

Flyweight

- Use sharing to support large numbers of fine-grained objects efficiently.

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.
User	Book an appointment with a doctor	Doctor gets an email notification as a confirmation message.

Unit Testing

Test cases for Login and Sign Up Pages

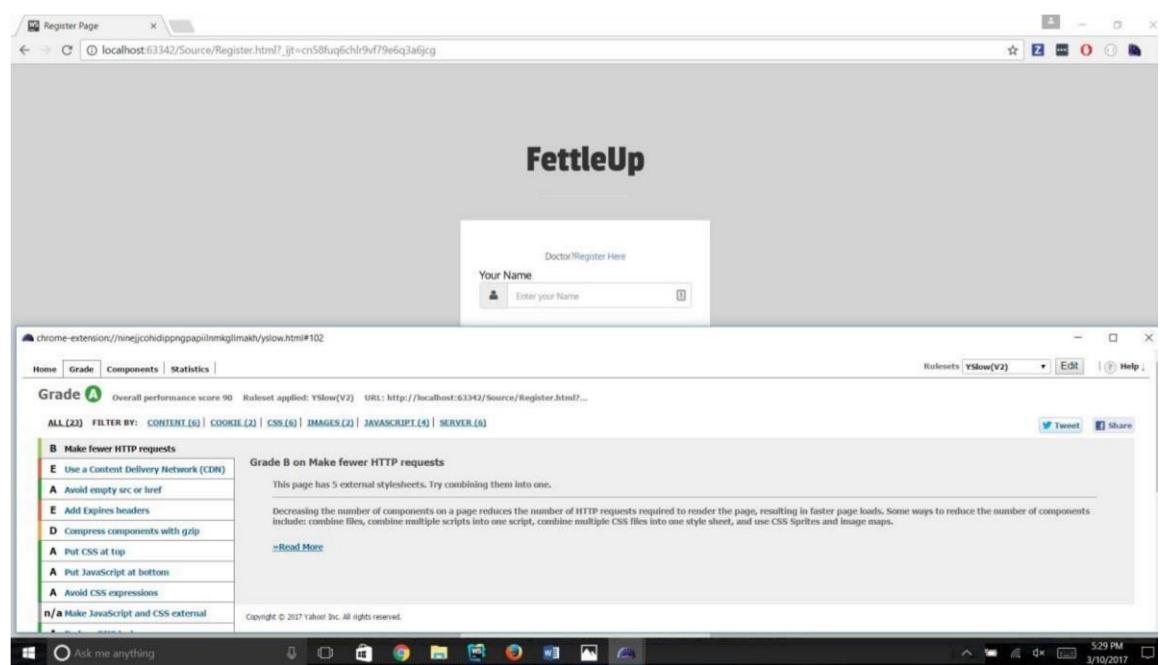
Case	Test Case Description	Expected Result	Actual Result	Result
Login	Invalid Username and Invalid Password	Error Message should pop up, stating that invalid credentials and Reenter valid credentials.	Error Message should pop up, stating that invalid credentials and Re-enter valid credentials.	Pass
Login	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 Reenter 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 match	Error Message is passwords are not same.	Error Message is passwords are not same.	Pass
Consultation tab in Home Page	Should navigate to doctor's information page	Page should redirect successfully	Page should redirect successfully	Pass
Booking Appointment in Consultation tab	Can book an appointment with a doctor	User can book an appointment successfully	User can book an appointment successfully	Pass
Say Hello in Home Page	Navigate to chat application page where user or doctor can chat	The speech input will successfully converts to text	The speech input will successfully converts to text	Pass
GoogleMeds in Home Page	Navigate to google maps where we can see the nearby pharmacies	Must show the location of nearby pharmacies accurately	Must show the location of nearby pharmacies accurately	Pass
Myhealth page	Must satisfy email ID format	Error Message is please enter a valid email ID.	Error Message is please enter a valid email ID.	Pass
Myhealth page	Must satisfy phonenumber ID format	Error Message is please enter a valid phone number.	Error Message is please enter a valid phone number.	Pass
Myhealth page	Satisfy age length to be limited to 2	Error Message is please enter a valid age.	Error Message is please enter a valid age.	Pass

Book an appointment page	Must sent an email notification to a doctor	Error message is doctor unable to receive confirmation	Error message is doctor unable to receive confirmation	Pass
		message	message	

Performance Testing

Our entire application got a grading of ‘A’ when we tested using YSlow extension. Here are some screenshots of our application,



FETTLEUP

chrome-extension://ninejcohidippngpapilnmkgilmakh/yslow.html#

Home | Grade | Components | Statistics |

Grade **B** Overall performance score 82 Ruleset applied: YSlow(V2) URL: http://localhost:63342/FettleUp/Home.html?_j=108v83tu3tf9gns27gmucug7g

ALL (23) FILTER BY: CONTENT (6) | COOKIE (2) | CSS (6) | IMAGES (2) | JAVASCRIPT (4) | SERVER (6)

B Make fewer HTTP requests

- F** Use a Content Delivery Network (CDN)
- A** Avoid empty src or href
- F** Add Expires headers
- B** Compress components with gzip
- A** Put CSS at top
- A** Put JavaScript at bottom
- A** Avoid CSS expressions

This page has 6 external stylesheets. Try combining them into one.

Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

[Read More](#)

Dr. Antony

MBBS,MD & Psychiatrist Neuro Psychiatrist
Research Psychiatric Centre

BOOK APPOINTMENT

100 \$
MON-FRI

HOME CONSULTATION SAY HELLO MY HEALTH GOOGLE MEDS LOGOUT

chrome-extension://ninejcohidippngpapilnmkgilmakh/yslow.html#

Home | Grade | Components | Statistics |

Grade **D** Overall performance score 81 Ruleset applied: YSlow(V2) URL: http://localhost:63342/FettleUp/Consultation.html

ALL (23) FILTER BY: CONTENT (6) | COOKIE (2) | CSS (6) | IMAGES (2) | JAVASCRIPT (4) | SERVER (6)

D Make fewer HTTP requests

- F** Use a Content Delivery Network (CDN)
- A** Avoid empty src or href
- F** Add Expires headers
- A** Compress components with gzip
- A** Put CSS at top
- A** Put JavaScript at bottom
- A** Avoid CSS expressions

This page has 7 external Javascript scripts. Try combining them into one.
This page has 6 external stylesheets. Try combining them into one.

Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

[Read More](#)

Consultation

localhost:63342/FettleUp/BookAppointment1.html#

Name:

Phone:

Email Address:

chrome-extension://ninejcohidippngpapii/nmkglmakh/yslow.html#1

Home Grade Components Statistics

Grade **B** Overall performance score 81 Ruleset applied: YSlow(V2) URL: http://localhost:63342/FettleUp/BookAppointment1.html#

ALL (23) FILTER BY: CONTENT (6) COOKIE (2) CSS (6) IMAGES (2) JAVASCRIPT (4) SERVER (6)

D Make fewer HTTP requests

- F Use a Content Delivery Network (CDN)
- A Avoid empty src or href
- F Add Expires headers
- A Compress components with gzip
- A Put CSS at top
- A Put JavaScript at bottom
- A Avoid CSS expressions

Grade D on Make fewer HTTP requests

This page has 7 external Javascript scripts. Try combining them into one.
This page has 6 external stylesheets. Try combining them into one.

Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

[Read More](#)

Place searches

localhost:63342/

Map Satellite

HANOVER HEIGHTS

HOME CONSULTATION SAY HELLO MY HEALTH GOOGLE MEDS LOGOUT

chrome-extension://ninejcohidippngpapii/nmkglmakh/yslow.html#1

Home Grade Components Statistics

Grade **C** Overall performance score 70 Ruleset applied: YSlow(V2) URL: https://umkc-csm.symplicity.com/students/index.php?...

ALL (23) FILTER BY: CONTENT (6) COOKIE (2) CSS (6) IMAGES (2) JAVASCRIPT (4) SERVER (6)

F Make fewer HTTP requests

- F Use a Content Delivery Network (CDN)
- A Avoid empty src or href
- F Add Expires headers
- B Compress components with gzip
- A Put CSS at top
- F Put JavaScript at bottom
- A Avoid CSS expressions
- n/a Make JavaScript and CSS external

Grade F on Make fewer HTTP requests

This page has 75 external Javascript scripts. Try combining them into one.
This page has 18 external stylesheets. Try combining them into one.

Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

[Read More](#)

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5. Implementation and Deployment

Increment 1

For this increment, We have implemented our web application using the mentioned API's and modules. Which includes login page, Register Page with form validation and we have also put OAuth 2.0 so that user's can login with their facebook and google credentials. The process flow of the application can be viewed in the below screenshots, [Login Page:](#)

- 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.



Registration Page:

- 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

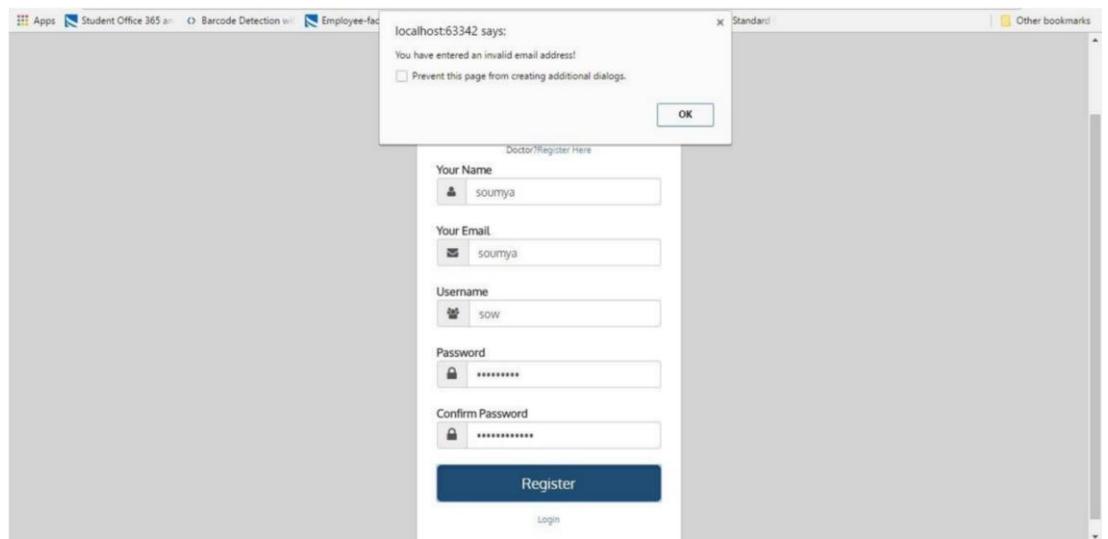
Username
 Enter your Username

Password
 Enter your Password

Confirm Password
 Confirm your Password

Register

[Login](#)



FettleUp

Doctor/Register Here

Your Name
 soumya

Your Email
 soumya

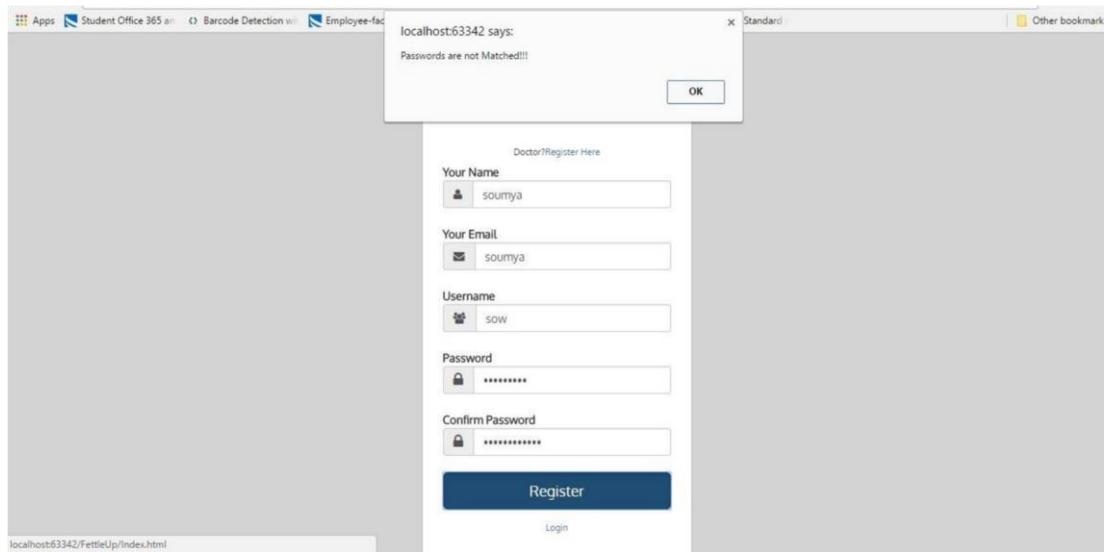
Username
 SOW

Password

Confirm Password

Register

[Login](#)

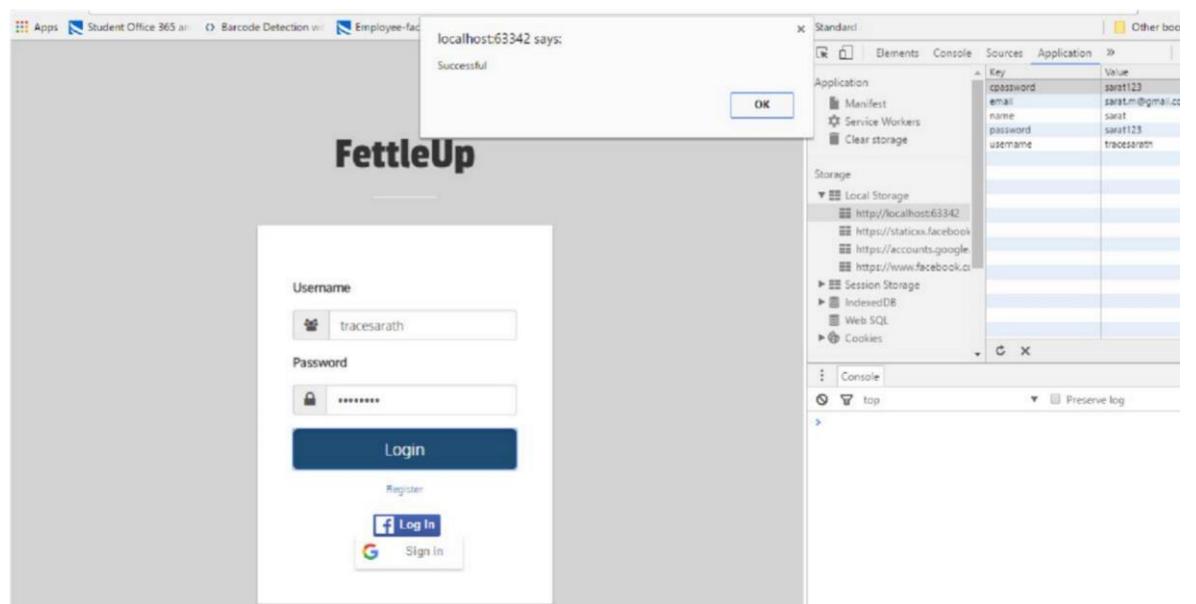
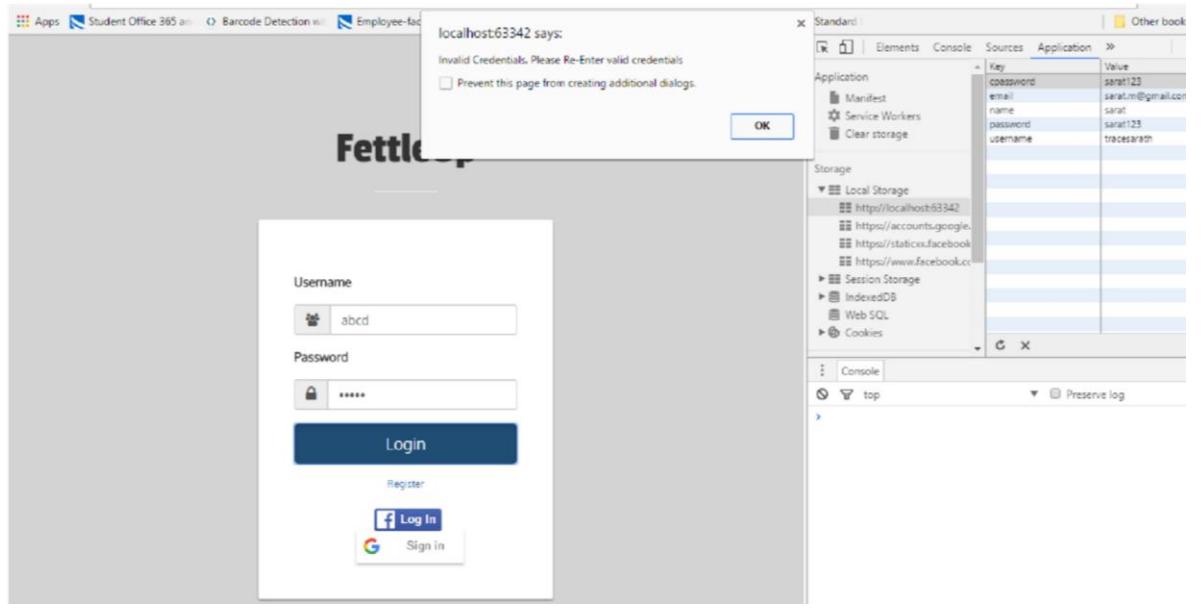


- On successful registration the details of the user are stored in the local storage of the browser, which are used for future login authentication. Below screenshot will give you details,

The screenshot shows a browser developer tools window with the "Storage" tab selected. Under "Local Storage" for the domain "http://localhost:63342", there are five key-value pairs:

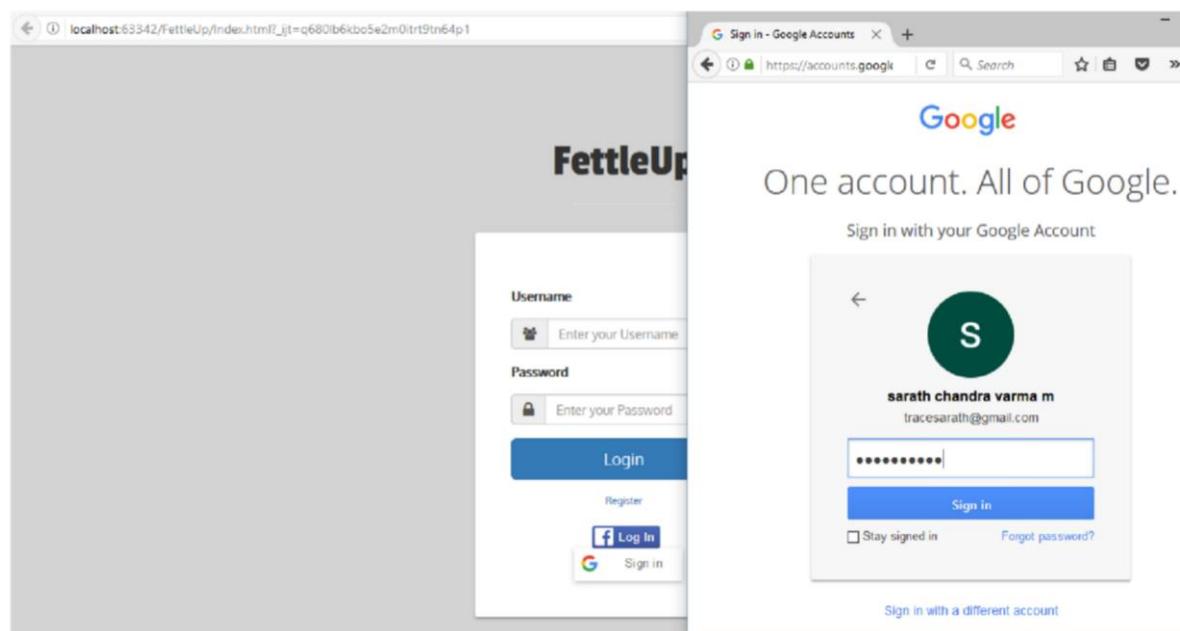
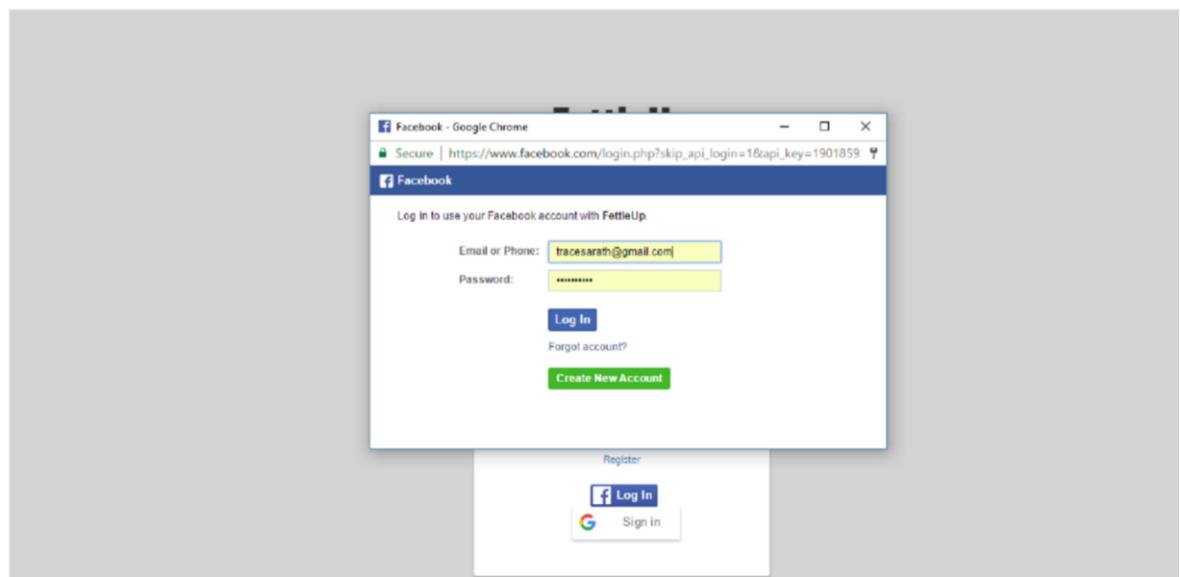
Key	Value
cpassword	sarat123
email	sarat.m@gmail.com
name	sarat
password	sarat123
username	tracesarat

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,



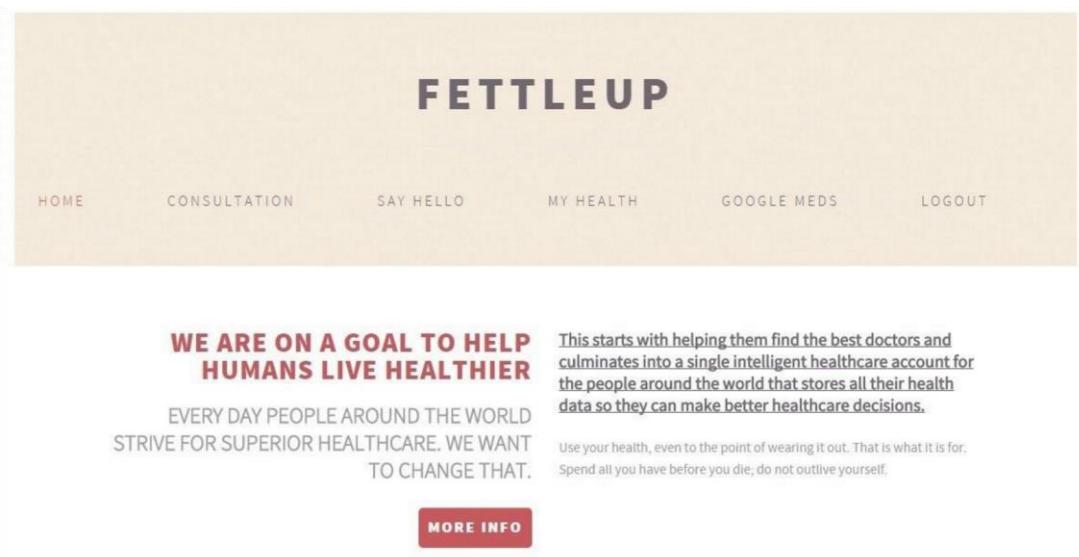
OAuth Login using Facebook and Google Signin:

Facebook and Google API's screenshots are given below,



Patients Homepage:

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

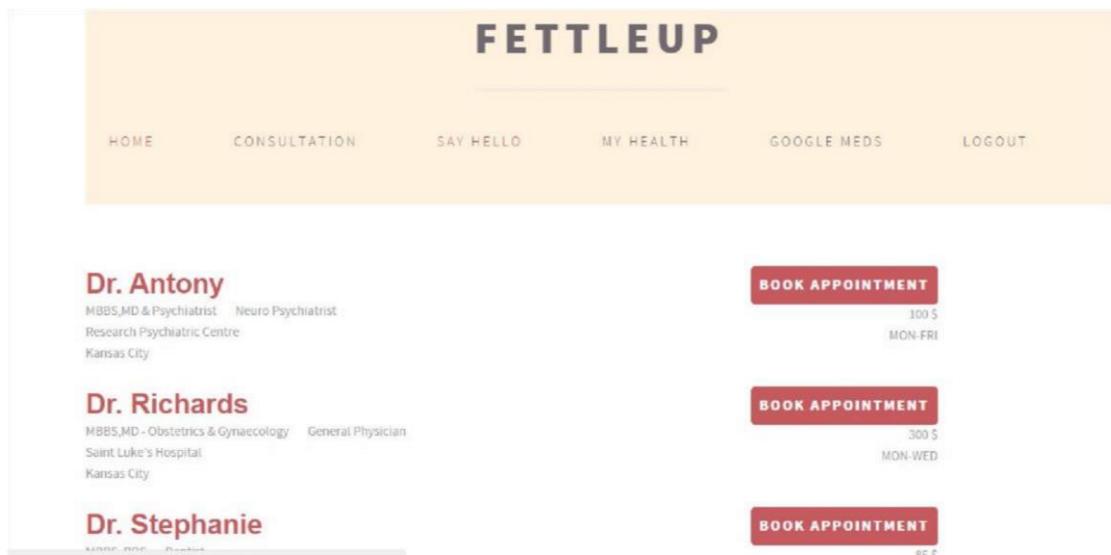


Increment 2

For the increment 2 we have designed our Consultation, Book Appointment, Say Hello and Google Meds pages and also My Health Page and implemented two features Google Meds where user will be able to locate nearby medical stores and demo speech to text feature.

Consultation Page:

If the user clicks on the consultation tab he will be redirected to the page where he can a list of doctors and make an appointment option.



Book Appointment Page:

User can check the doctor details and once he was satisfied with the doctor he can make an appointment with him by clicking Book Appointment option.

Book an Appointment.

Name:

Phone:

Email Address:

Date of Birth: DD/MM/YYYY

Appointment Date: DD/MM/YYYY

Booked with us Before?

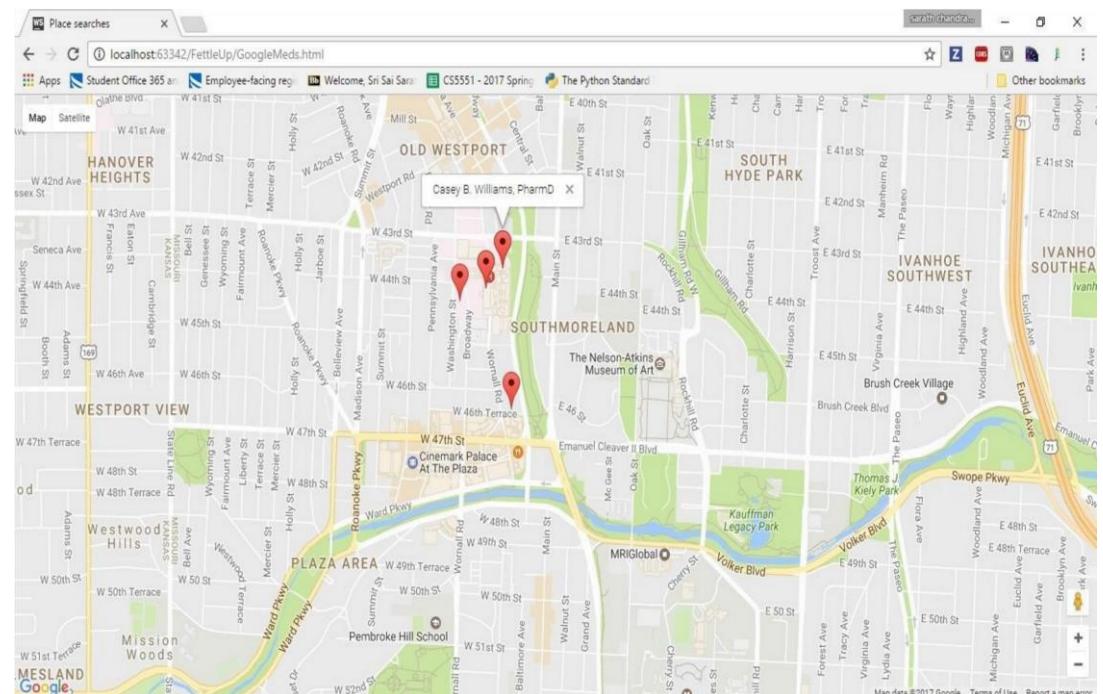
Yes
 No

Message:

CONFIRM

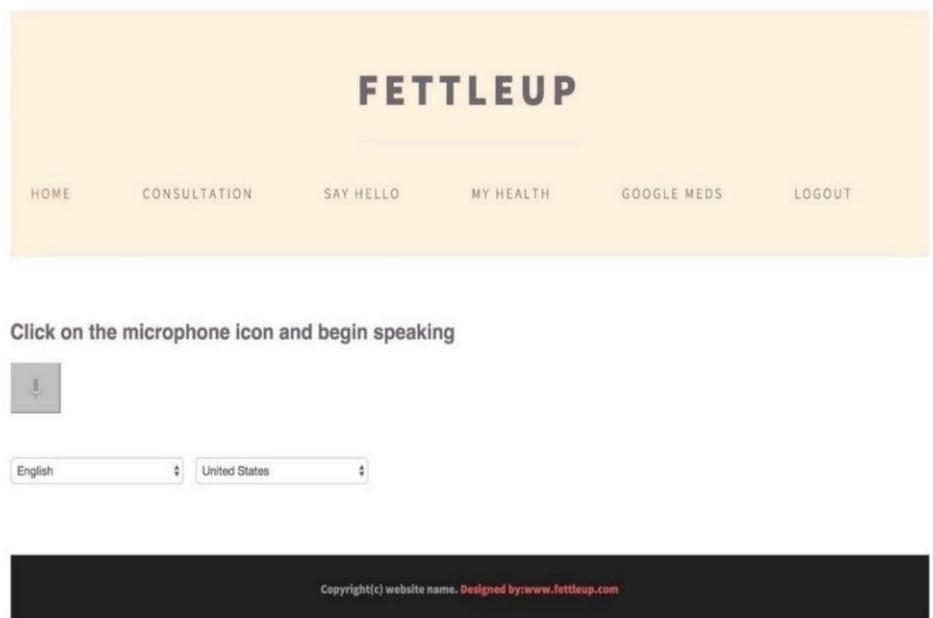
Google Meds Page:

If the user clicks on the GoogleMed tab in the home page he will be redirected to the google maps where he can check for the nearby pharmacies.



Demo Speech to Text:

If the user clicks on Say Hello tab in the home page he will be redirected to the page where the user can chat.



My Health Page:

The below screenshot depicts the My Health page for the patient where he can enter the details of his health condition.

A screenshot of the Patient Details page. The top navigation bar includes links for "HOME", "CONSULTATION", "SAY HELLO", "MY HEALTH", "GOOGLE MEDS", and "LOGOUT". The main content area is titled "Patient details" and contains five input fields: "Enter patient Name:", "Enter Phonenumber:", "Enter Email Address:", "Enter Age:", and "Enter disease symptoms:". Below these fields is a red "UPLOAD" button. The browser's address bar shows the URL "localhost:63342/fettleUp/MongoRestApplication/Myhealth.html?_jst=fkj31vi02uvbas0f0nmpbmr6v4".

Increment 3

For increment 3 we have implemented two main features: One is we implemented MongoDB to store health records of the patient and the doctor can retrieve from his side and the second main feature is that we have implemented a chat application using node.js and Socket.io where the patient can chat with the doctor about his health.

Database Implementation and Working Model:

The screenshot shows a web browser window titled "Patient Details" with the URL "localhost:63342/FettleUp/MongoRestApplication/Myhealth.html". The browser's address bar also displays "Patient Details". The page content is titled "Patient details". It contains several input fields:

- Enter patient Name:
- Enter Phonenumber:
- Enter Email Address:
- Enter Age:
- Enter disease symptoms:

Below the text area is a red "UPLOAD" button.

Patient Details

localhost:63342/FettleUp/MongoRestApplication/Myhealth.html

Enter patient Name: varma

Enter Phonenumber: 7856543211

Enter Email Address: varma@gmail.com

Enter Age: 24

Enter disease symptoms: Testing

UPLOAD

If the patient click on the upload button then he will be redirected to home page and the details are uploaded in the db.

Patient Details

localhost:63342 says:
successfully uploaded

OK

localhost:63342/FettleUp/MongoRestApplication/Myhealth.html

Enter patient Name: sarath

Enter Phonenumber: 7654325433

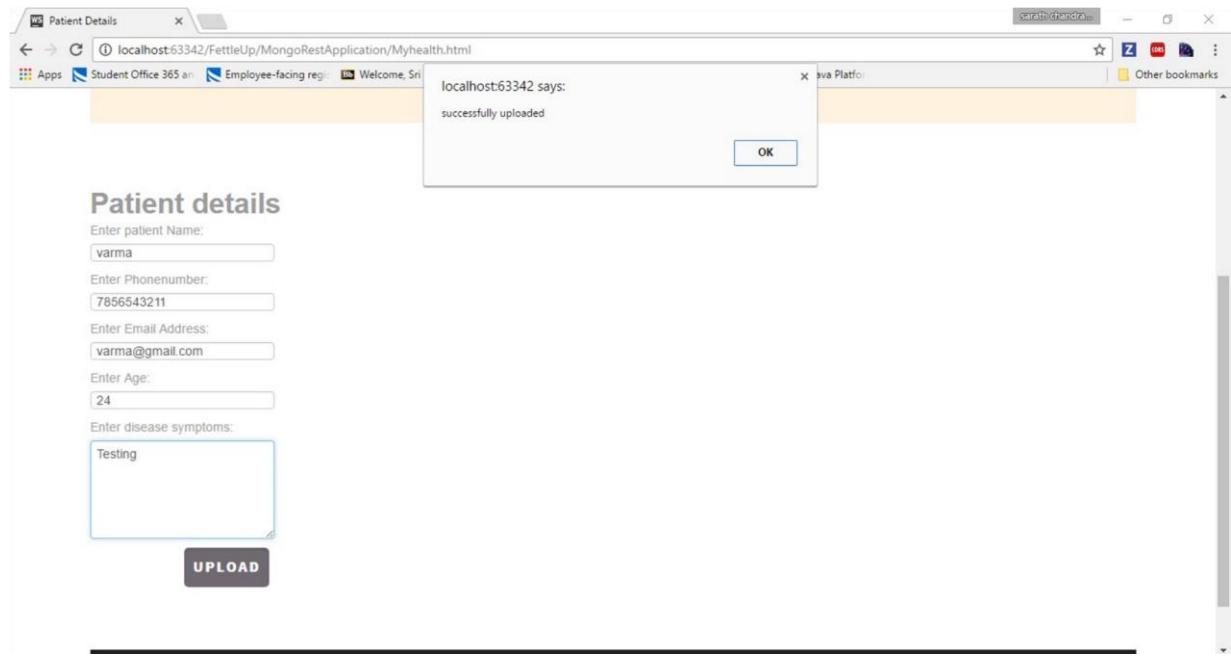
Enter Email Address: sarat.mj@gmail.com

Enter Age: 23

Enter disease symptoms: Test

UPLOAD

Copyright(c) website name. Designed by:www.fettleup.com



MongoDB:

When the user clicks on the upload button the details are stored in the MongoDB.

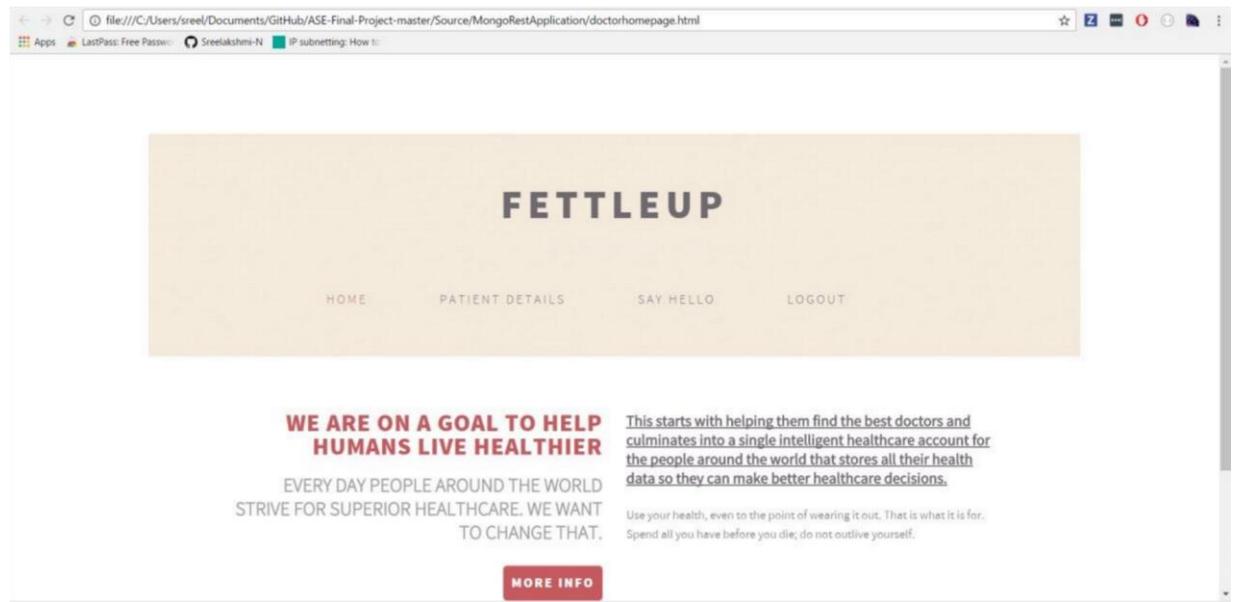
```

{
  "_id": {
    "$oid": "58ec078cc79d0414686f6240"
  },
  "name": "sarath",
  "pno": "7654325433",
  "email": "sarath.m@gmail.com",
}
{
  "_id": {
    "$oid": "58ec07c8c79d0414686f6241"
  },
  "name": "varma",
  "pno": "7856543211",
  "email": "varma@gmail.com",
}

```

Doctor Side HomePage:

The below screenshot shows the home page for the doctor where he there are tabs like patient details, say hello.



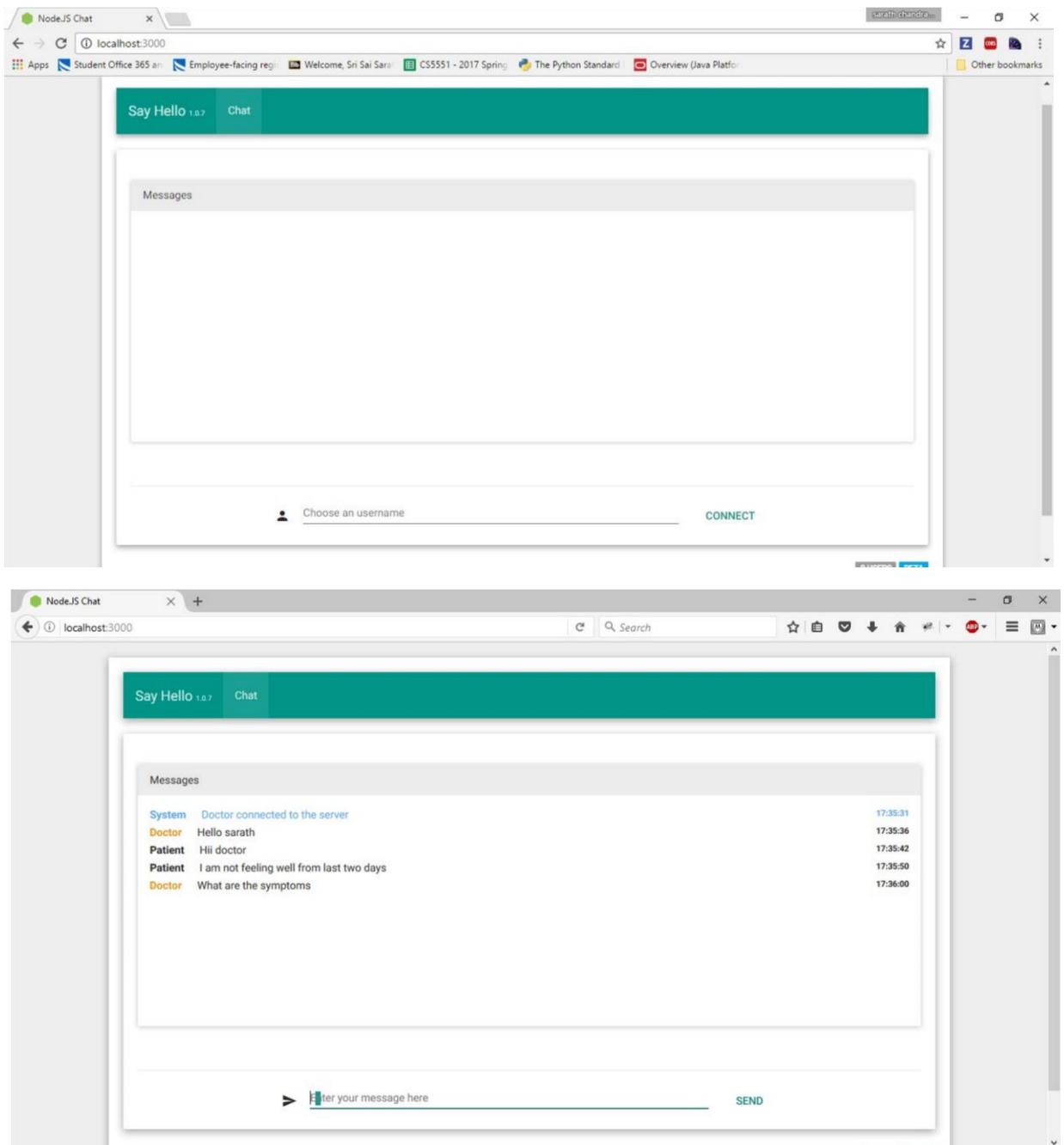
Retrieving patient's details from Doctor's side:

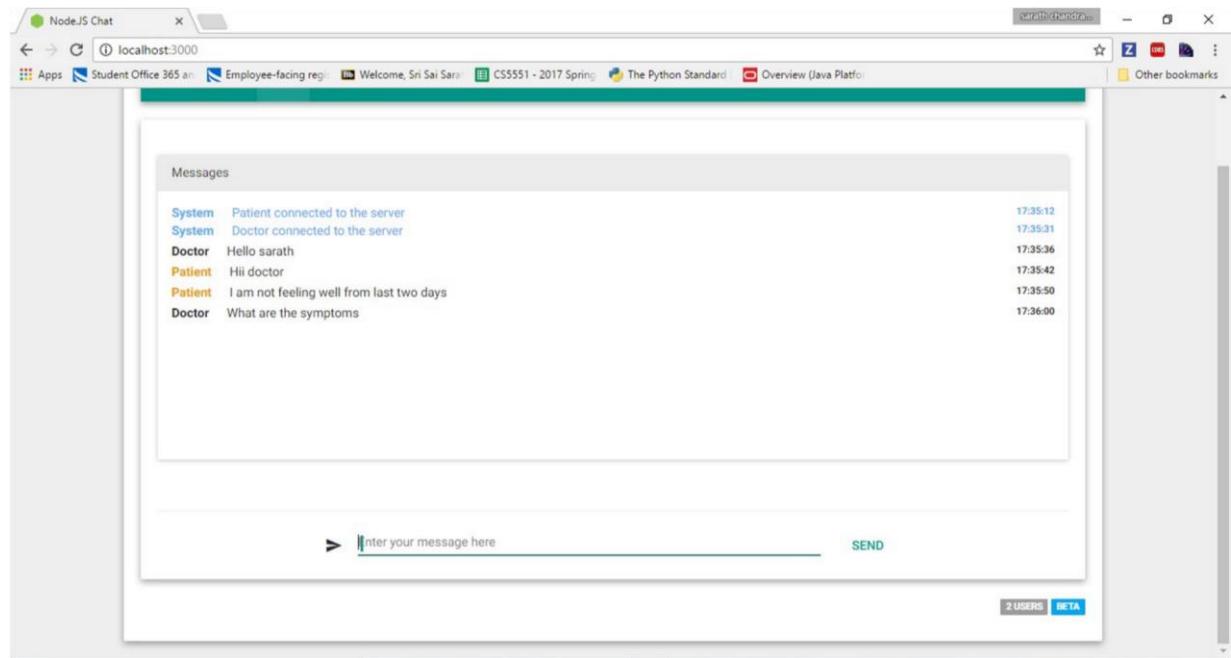
When the user clicks on the patient details tab he can retrieve the patient health condition.

S.No	PatientName	Phonenumber	Email	Age	Disease Symptoms	ID
0	sarath	7654325433	sarat.m@gmail.com	23	Test	58ec078cc79d0414686fb240
1	varma	7856543211	varma@gmail.com	24	Testing	58ec07c8c79d0414686fb241

Chat Application:

When the doctor and patient clicks on the say hello tab in their respective homepage tabs they can able to chat. This can be done by running the node.js server.



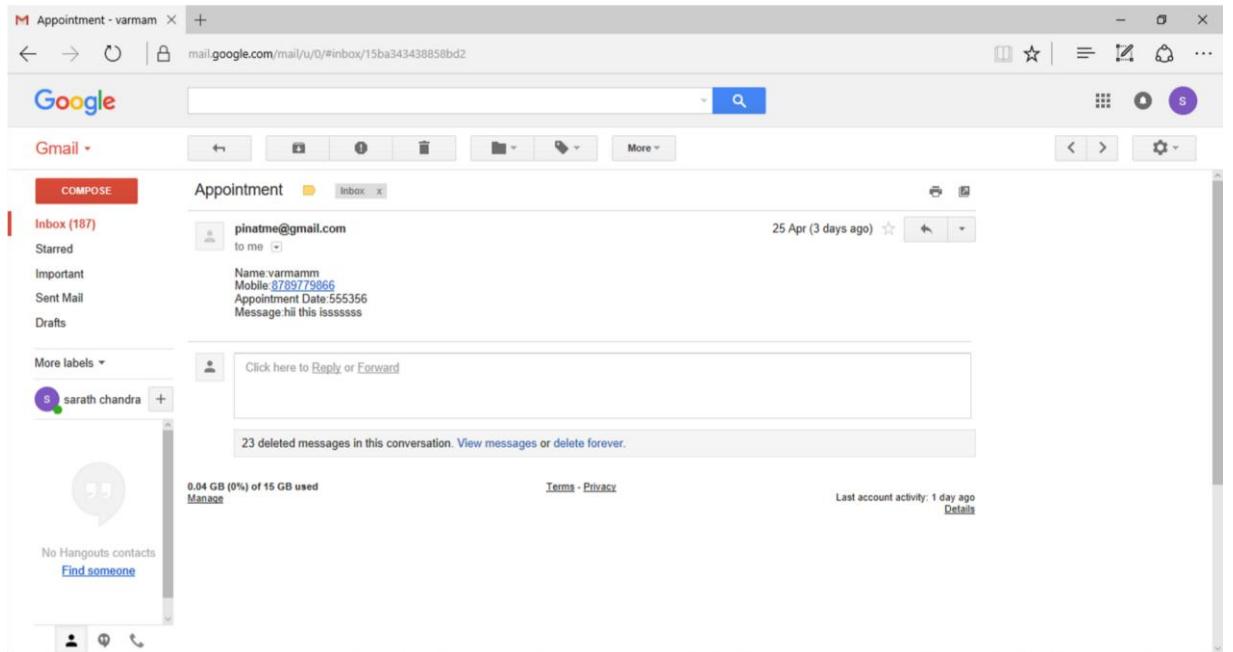


Increment 4

For increment 4 we have implemented two features: One is an email will be sent to the doctor regarding the appointment details of a patient after successful appointment an also we have implemented speech to text feature in the chat application. Where doctor or patient can speak and it is converted to text and send message.

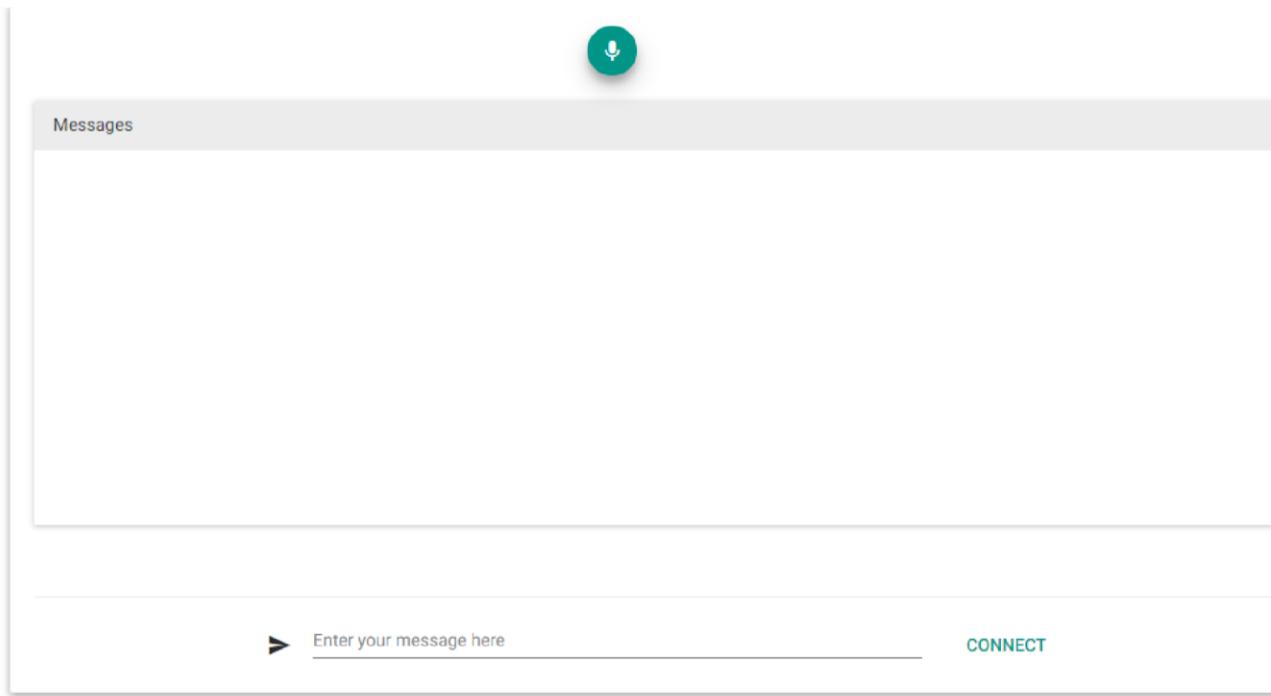
Email Notification function on successful appointment:

When the patient book an appointment with a doctor then email notification is sent to doctor. This can be done by running the node.js server.



Speech to Text in Chat Application:

Speech to Text feature where user can able to chat without writing in the chat box. User can directly speak into microphone and will be able to chat.



7.Presentation Slides:

ASE PROJECT FETTLE UP

Saketh Garuda (Class id:25)

Sarat Mudunuri (Class id:52)

Sreelakshmi Nandanamudi (Class id:60)

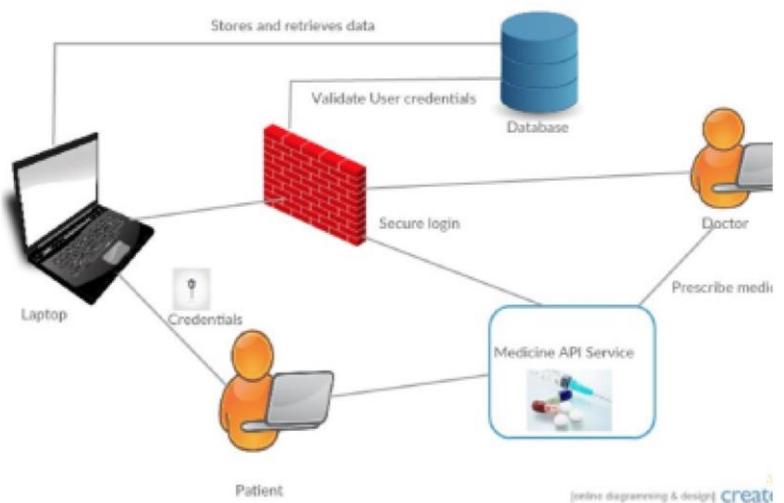
Sowmya Yalamanchili (Class id:91)

Significance

Application allows users to

- Communicate with doctor using chat service.
 - Book an appointment with the respective doctor.
 - Search for nearby emergency with ease.
-

Architecture Diagram



Technologies Used



Application Features

- User can create account and login.
- Google login using oAuth.
- Chat with doctor using Speech to text API.
- A confirmation mail is sent to the doctor about the appointment.
- Check for nearby emergency stores.
- Patient Health details can be viewed by doctor.

Video Link: https://youtu.be/q6T6_80xi3U

8.Github URL:

<https://github.com/SaratM34/ASE-Final-Project>

9.Youtube Video URL:

https://www.youtube.com/watch?v=q6T6_80xi3U

10. 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
- MongoDB
- Node.js

Work Completed

The completed tasks in this increment are,

- Design and base layout of the tabs in the Home Page,
- Implemented MongoDB to store and retrieve details of the patient,
- Integrated chat application between patient and doctor,
- Integrated Email notification after booking an appointment with a doctor
- Architecture and flow of the application is defined,
- API's are successfully integrated in the application.

Responsibility and Time Taken for Increment 1:

- 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.

Responsibility and Time Taken for Increment 2:

- Home Page book appointment: Sarat 1/2 hr, Saketh 1/2 hr.
- Home page Map functionality: Sowmya 1/2 hr, Sreelakshmi 1/2 hr.
- Design Elements: Sarat 1/2 hr, Saketh 1/2 hr.
- UML Diagrams Creation: Sowmya 1/2 hr, Sree Lakshmi 1/2 hr.
- Wireframes: Saketh 1/2 hr, Sarat 1/2 hr.
- Integrating Pages: Saketh 1/2 hr, Sarat 1/2 hr.
- User Stories: Sree Lakshmi 1 hr.
- Unit Test cases: Sowmya 1hr.
- Project Increment Report: Sowmya 1/2 hr, Sreelakshmi 1/2 hr, Sarat 1/2 hr, Saketh 1/2 hr.

Responsibility and Time Taken for Increment 3

- Home Page for Doctor: Sarat 1/2 hr, Saketh 1/2 hr.
- My Health Page: Sowmya 1/2 hr, Sreelakshmi 1/2 hr.
- Design Elements: Sarat 1/2 hr, Saketh 1/2 hr.
- Implemented MongoDB: Sowmya 1 hr, Sree Lakshmi 1 hr.
- Implemented chat Application: Sarat 1/2 hr, Saketh 1/2 hr.
- Wireframes: Saketh 1/2 hr, Sarat 1/2 hr.
- Integrating Pages: Saketh 1/2 hr, Sarat 1/2 hr.
- User Stories: Sree Lakshmi 1 hr.
- Unit Test cases: Sowmya 1hr.
- Project Increment Report: Sowmya 1/2 hr, Sreelakshmi 1/2 hr, Sarat 1/2 hr, Saketh 1/2 hr.

Responsibility and Time Taken for Increment 4

- Implemented Email notification: Sarat 1/2 hr, Saketh ½ hr

- Implemented Speech to Text API: Sowmya 1/2 hr, Sreelakshmi ½ hr
- Wireframes: Saketh 1/2 hr, Sarat 1/2 hr.
- Integrating Pages: Saketh 1/2 hr, Sarat 1/2 hr.
- User Stories: Sree Lakshmi 1 hr.
- Unit Test cases: Sowmya 1hr.
- Project Increment Report: Sowmya 1/2 hr, Sreelakshmi 1/2 hr, Sarat 1/2 hr, Saketh 1/2 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,



11. Future Work:

For the future work like we can take real time patients health details from the smart wearable devices and alert the hospital or doctors in case of emergency. Also, we can implement AI based doctor appointment i.e by giving the symptoms the patient have the system will be able to track a doctor and book an appointment.

12. Bibliography

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10. <https://cloud.google.com/speech/>