



PROJECT PLAN AND FIRST INCREMENT REPORT

SPRING 2017



Team – 1

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Chakilam, Revanth – 9

Syed Moin – 86

Sarda, Devender – 82

Table of Contents

1. Project Goals and Objectives.....	3
2. Project Plan and Management.....	4
3. Project timeline and responsibility.....	6
4. First Increment Report.....	8
a. WireFrames.....	9
b. Architecture Diagram.....	15
c. Class Diagram.....	15
d. Sequence Diagram.....	16
e. Use case Diagram.....	17
f. Unit Test Cases.....	18
g. Deployment.....	19
h. Project Management.....	24
5. Bibliography.....	26

1. Project Goals and Objectives

Motivation: In today's busy-busy world, it's hard to stay fit and keep track of what we should eat and what we shouldn't. With this underlying motivation, we came up with an idea to create an application which helps you do just that. Stay fit by keeping track of your eating habits and exercise routines.

Significance: Though we have multiple applications on fitness and nutrition in the market place, this application stands out as it combines both the dietary plan and exercise routine which a user can follow to make a healthy living and also we have put image recognition functionality which is not available in many of the applications today.

The Objective: The objective of this application is to make people fit and make them follow a diet for a healthy lifestyle.

System Features:

1. Register & Sign Up Option.
2. Create a plan for individual user.
 - a. We will take weight and height of the user while doing registration and set target for day, week and month.
3. Track user calories based on $\text{Food} + \text{Exercise} = \text{Total Calories}$.
4. Display user progress with intuitive graphs and charts.
5. Image Recognition: User can upload images of food item's he/she consumes, and our application calculates the approximate calories based on the image and food.
6. Exercise
 - a. User has an option to select different exercises and enter inputs to track calories burned.
7. Pie chart
 - a. You will have pie chart that for calories from meals. i.e. Breakfast, lunch and dinner.

2. Project Plan and Management

1. Project Plan: Schedule for the whole project is created

Labels

Milestones

New milestone

7 Open 0 Closed

Sort

Plan & Increment 1

Due by February 17, 2017

Last updated 3 minutes ago

100% complete

0 open

8 closed

Edit

Close

Delete

Project Proposal

Past due by 19 days

Last updated 4 minutes ago

Submit a brief document about your project idea.

100% complete

0 open

1 closed

Edit

Close

Delete

Final Submission

Due by May 5, 2017

Last updated about 24 hours ago

0% complete

0 open

0 closed

Edit

Close

Delete

Project Video/PPT

Due by May 1, 2017

Last updated about 24 hours ago

0% complete

0 open

0 closed

Edit

Close

Delete

Increment 4

Due by April 26, 2017

Last updated about 24 hours ago

0% complete

0 open

0 closed

Edit

Close

Delete

Increment 3

Due by April 7, 2017

Last updated about 24 hours ago

0% complete

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Close

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Increment 2

Due by March 10, 2017

Last updated about 24 hours ago

0% complete

0 open

0 closed

Edit

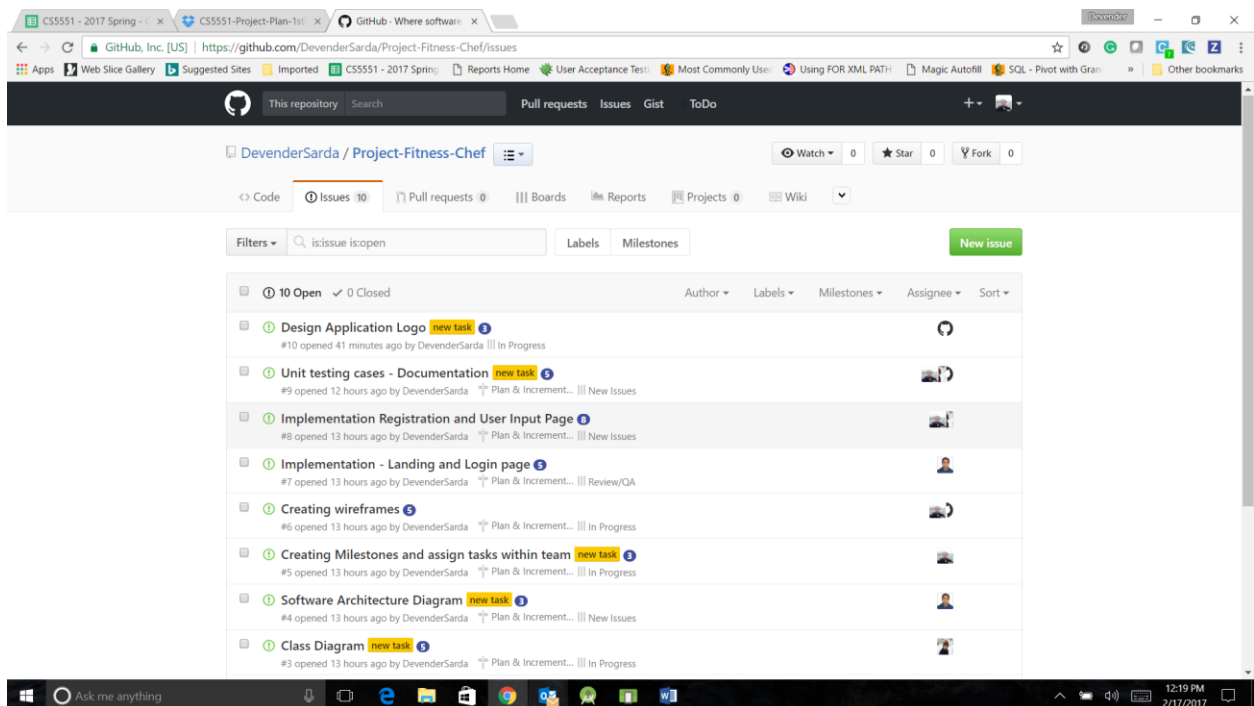
Close

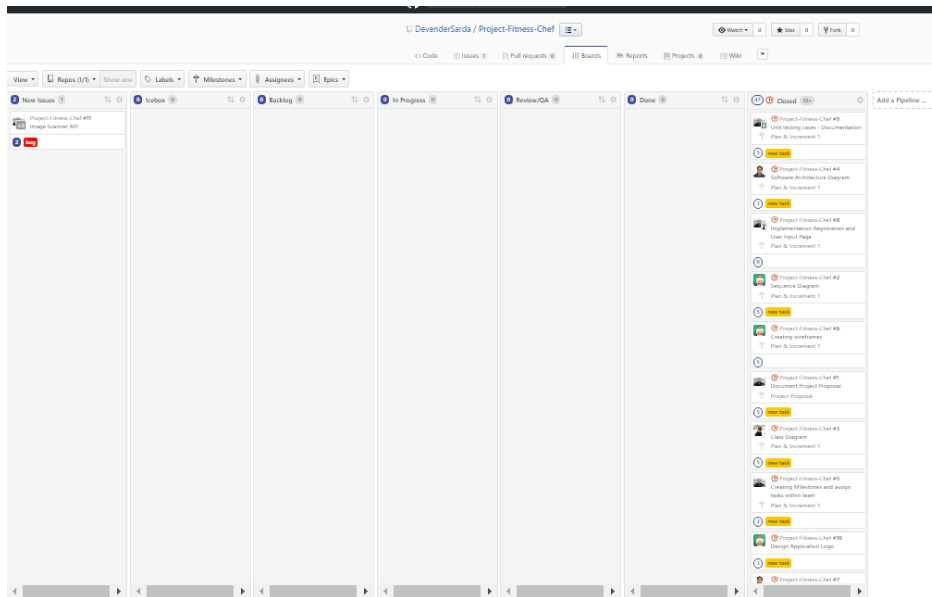
Delete

Page 4

2. Tasks and Issues Screenshot:

These are the issues that describe the tasks with contributors allocated on each and every tasks. It is assigned with the level of difficulty and the tasks are successfully closed as they are completed.





3. Project Timelines and Task Responsibility

3.2.1 Project Timelines

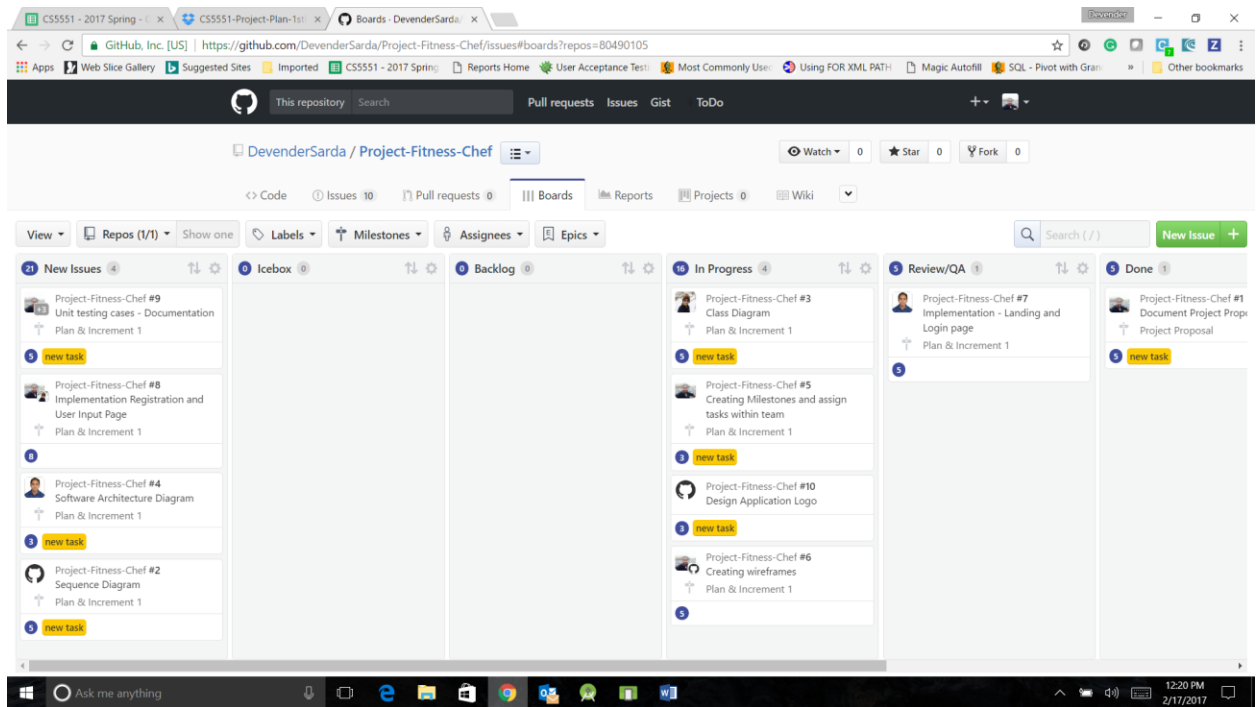
The Project is submitted in 4 increments and the aim is to achieve the said goals and tasks reported in the project

3.2.2 Members

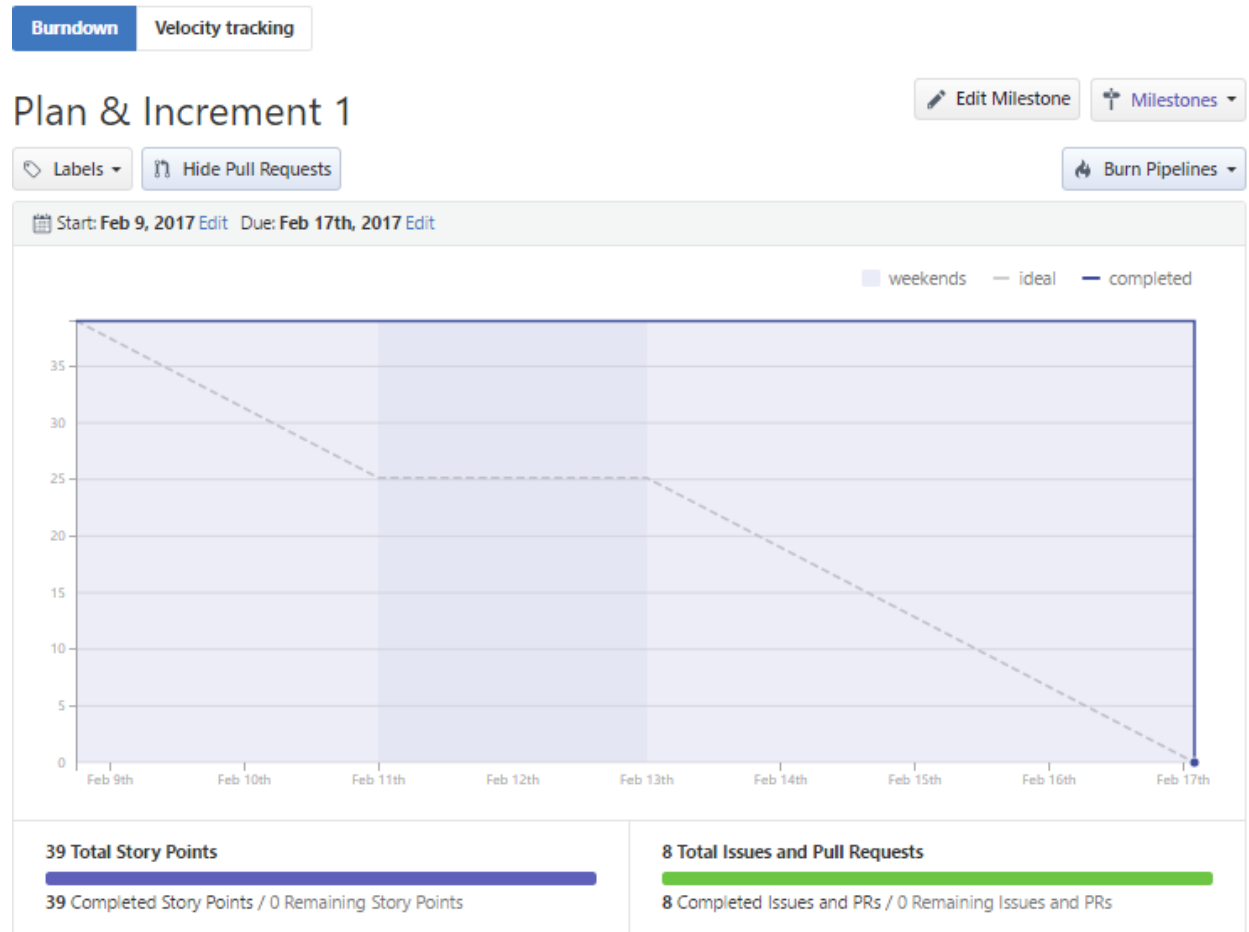
- Nageswara Rao Nandigam
- Syed Moin
- Revanth Chakilam
- Devender Sarda

3.2.3 Task Responsibility

Each member has their own task and projected with limited timeline. Nageswara Rao Nandigam has created the Landing page, Login page, Architecture and use case diagram. Devender Sarda created the Sign up page and use cases. Syed Moin created the Goal page, Class Diagram and sequence diagram. Revanth Chakilam involved in the designing part of the project, also designed the Wireframes and Details page.



4. Burn Down Chart



4. First Increment Report

The Project fitness chef mostly focusses on the nutrition and health benefits.

In the first increment, we have designed the pages main, login, signup, goal, details etc.

The user having an account can login directly. New Users has the facility to sign up in to the application. The new users can create an account based on the personal email id or through the social network O authentication. End users are provided with a choice to select the O authentication using either face book or google mail. Once the user connects to the application. He/she should set a goal whether to gain the weight or lose the weight or maintain the stability.

The users are asked with their height and weight in order to calculate the amount of calories intake and suggest them optimum nutrition for the betterment of their health.

In the details section, the users are asked to provide the personal details including location and date of birth.

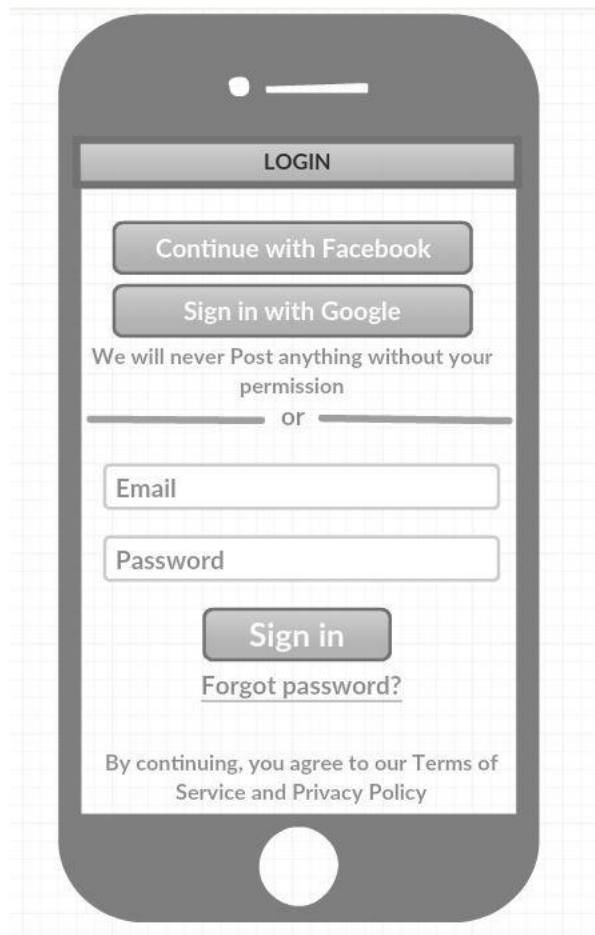
4.1 Existing Services/ REST API:

- Facebook OAuth API
- Google OAuth API
- Android studio framework
- Local Storage

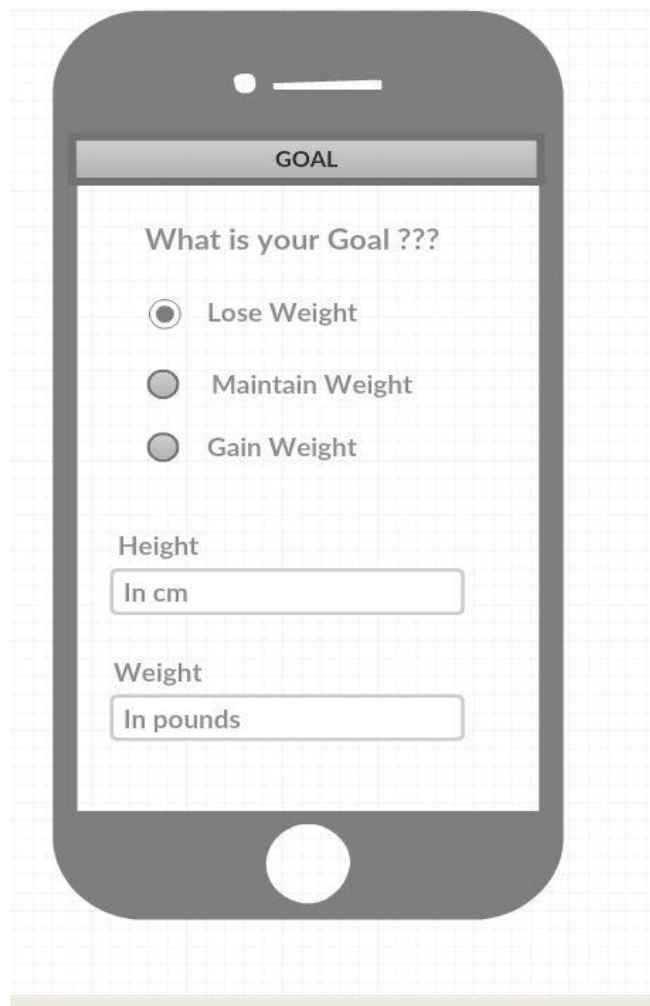
4.2 Detail Design of Features:

4.2.1 Wireframes and Mockups









GOAL

What is your Goal ???

☒ Lose Weight

☐ Maintain Weight

☐ Gain Weight

Height

In cm

Weight

In pounds

Details

Name

Full name

Gender

☐ male

☐ female

First Cry

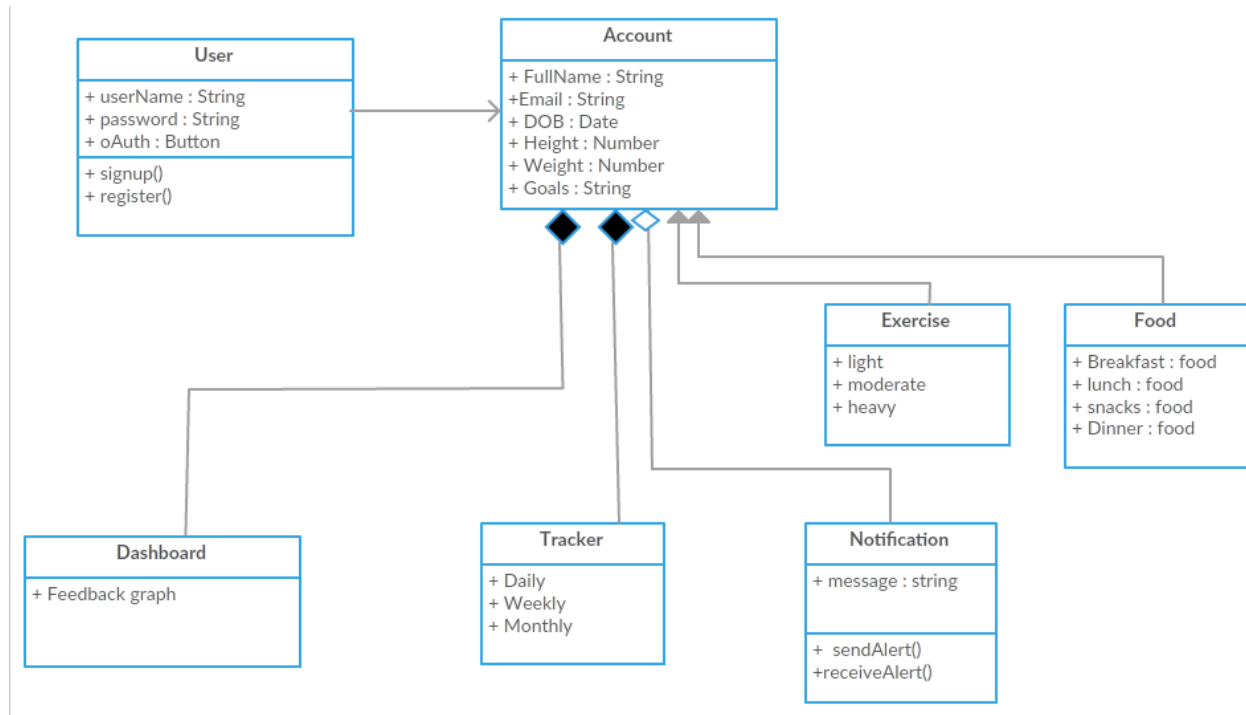
DD/MM/YYYY

Location

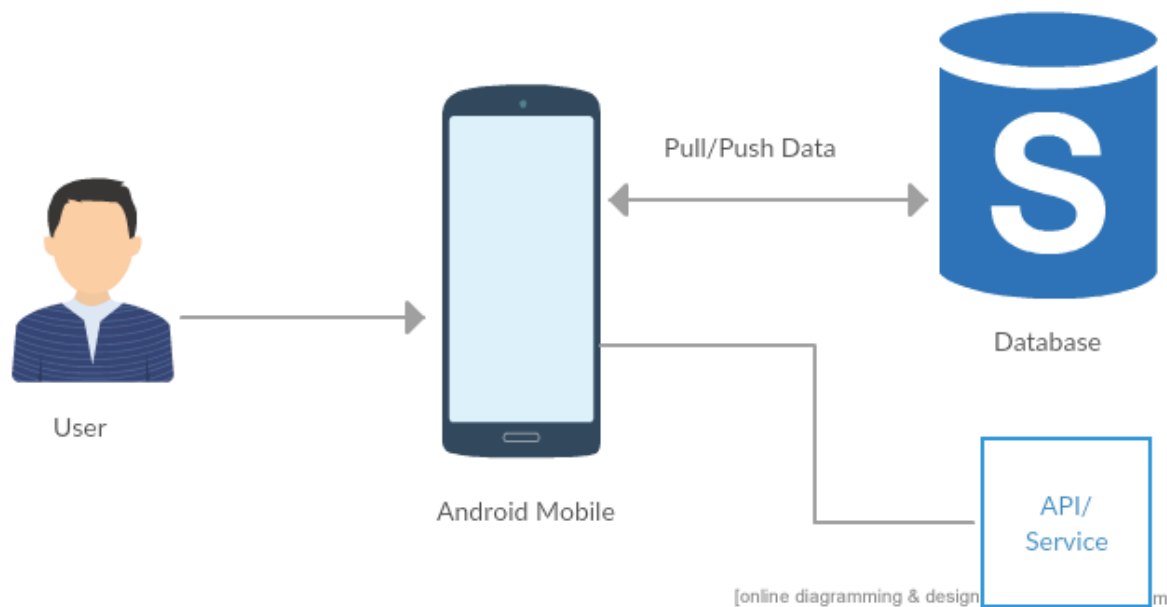
City

4.2.2 Architecture diagram/Sequence diagram/Class diagram/Use case diagram

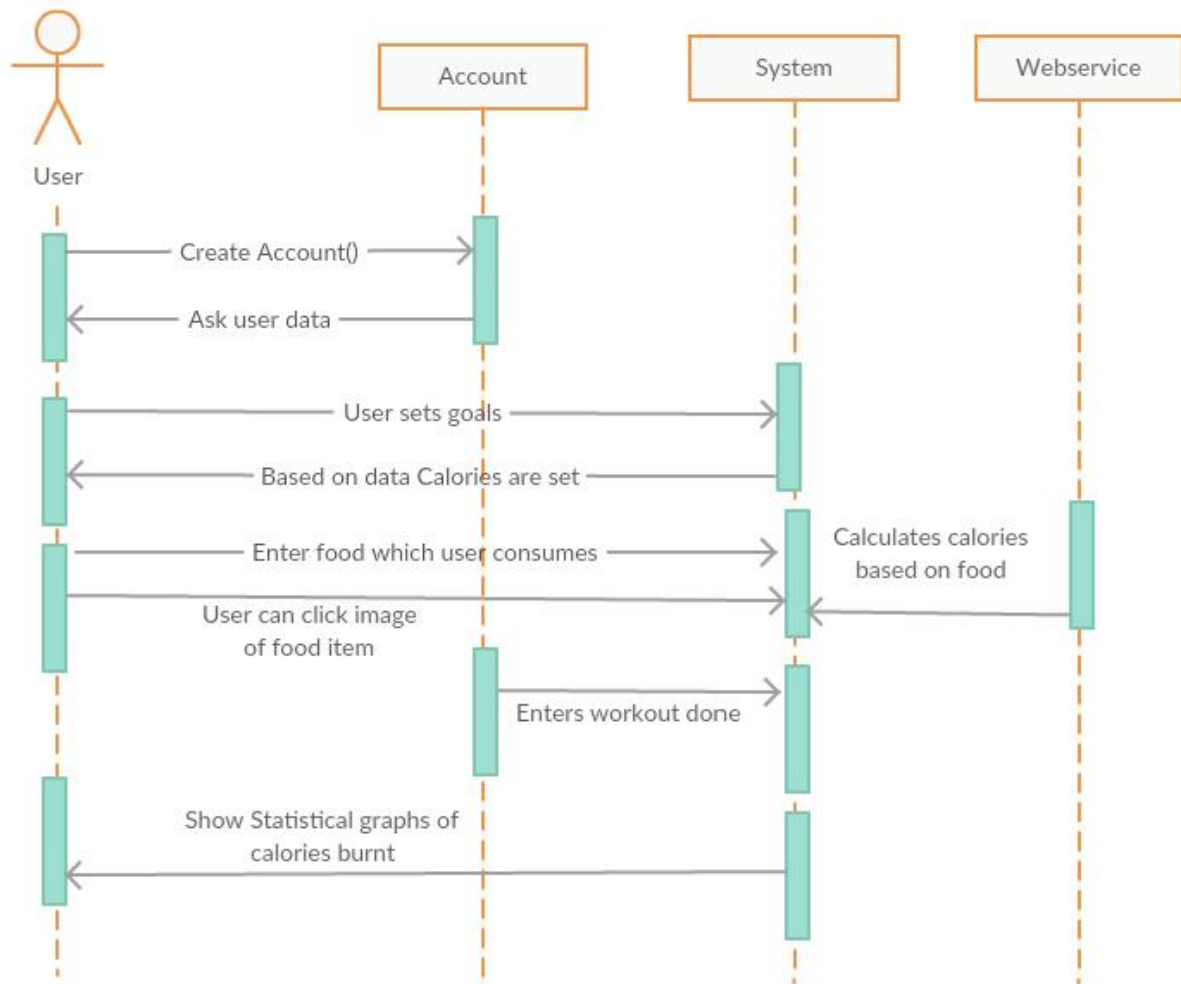
Class diagram



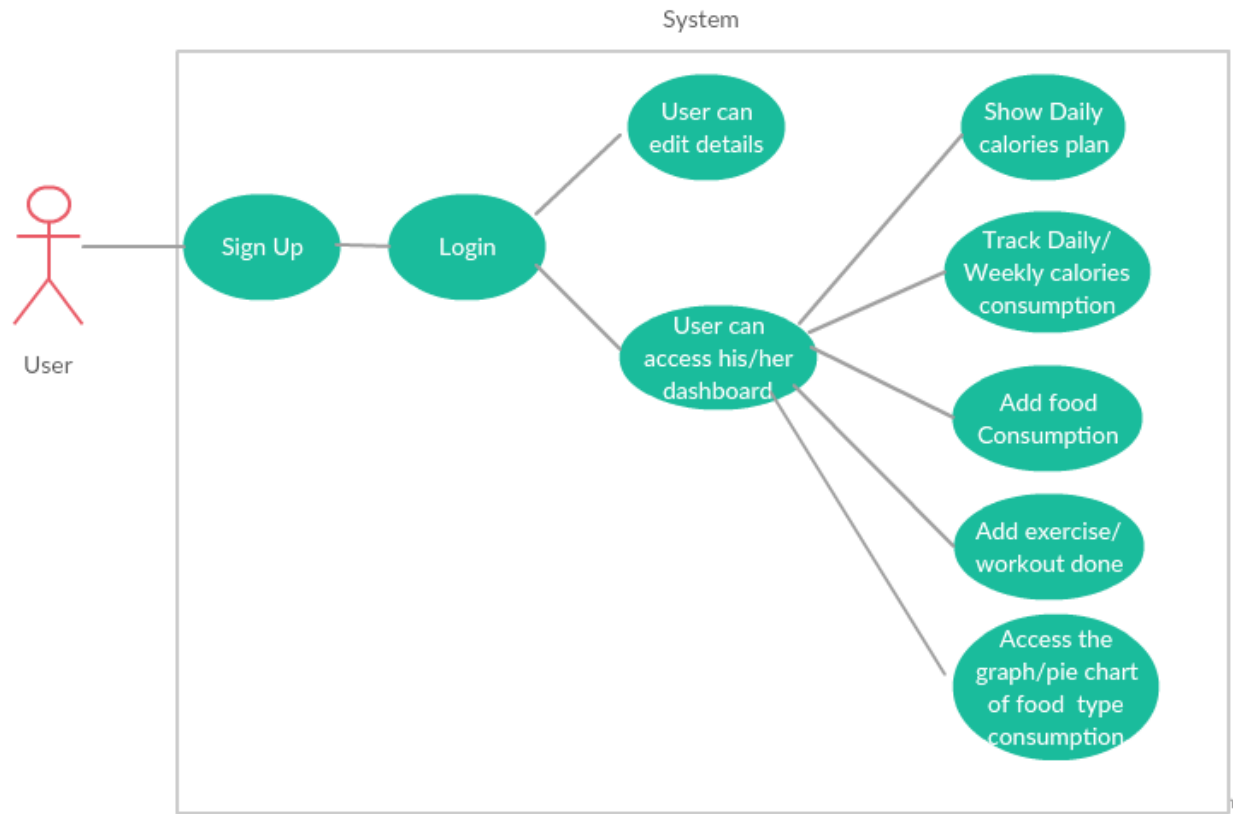
Architecture diagram



Sequence Diagram



Use case Diagram



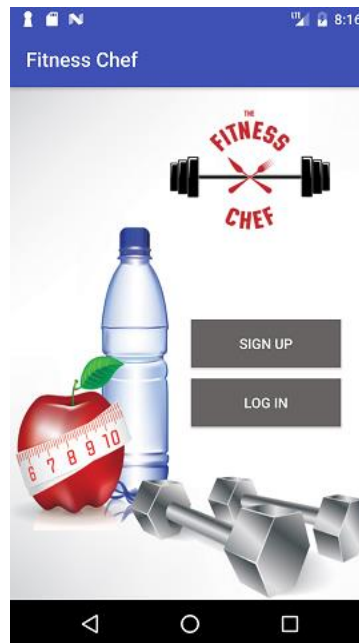
4.3 Testing:

Unit test cases

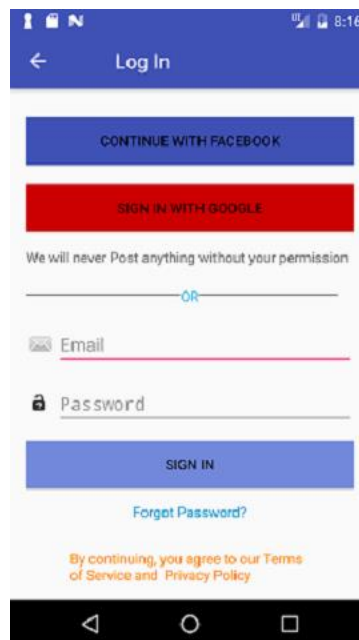
S.No	Test Case Title	Description	Expected Outcome	Result
1	Successful user Verification	The user should login with their password and email id	User should login successfully	Pass
2	Unsuccessful User	Login to the system with a wrong password	Login should fail with wrong password	Pass
3	Successful user login	The user should login with their password and email id	User should login successfully and enter in to the application.	Pass
4	OAuthentication	User can be able to login with facebook or gmail login.	User can create a new login or can login with social oauthentication.	Pass
5	New user should signup	After providing the details new user gets registered successfully	User registration should happen successfully	Pass
6	Invalid Email	The emails which are not valid are not accepted.	User should provide a valid email adress while registration or login.	Pass
7	Goal	User should select his goal out of valid three options and provide his/her height and weight.	Application throws an error if user doesnot select any valid option or if user leaves the fields empty.	Pass
8	Details	User should provide the personal details and location etc	The user details should be captured.	Pass

4.4 Deployment

Main Page

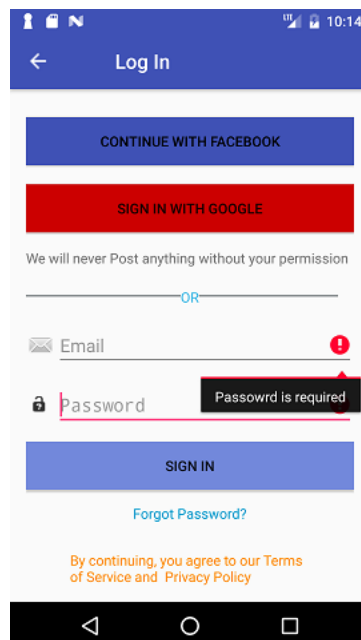
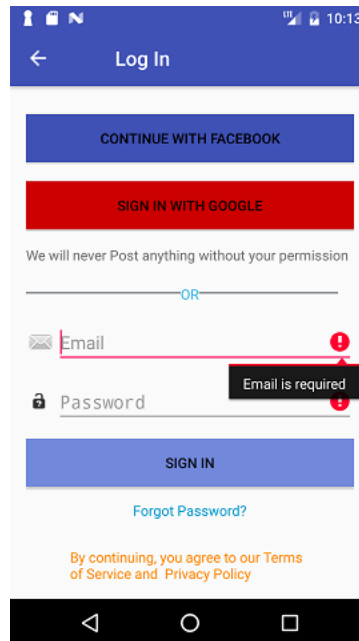


Login Page

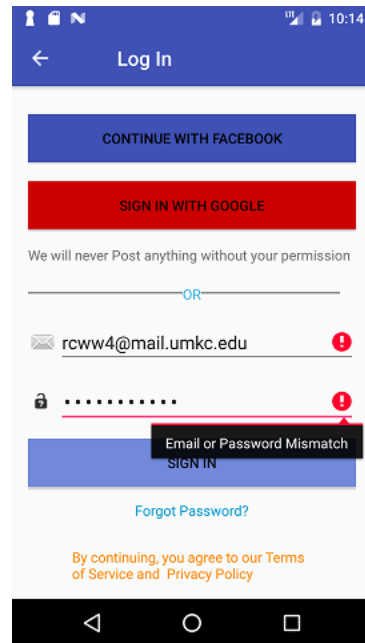


Login Page validations

- When user leaves the login fields empty



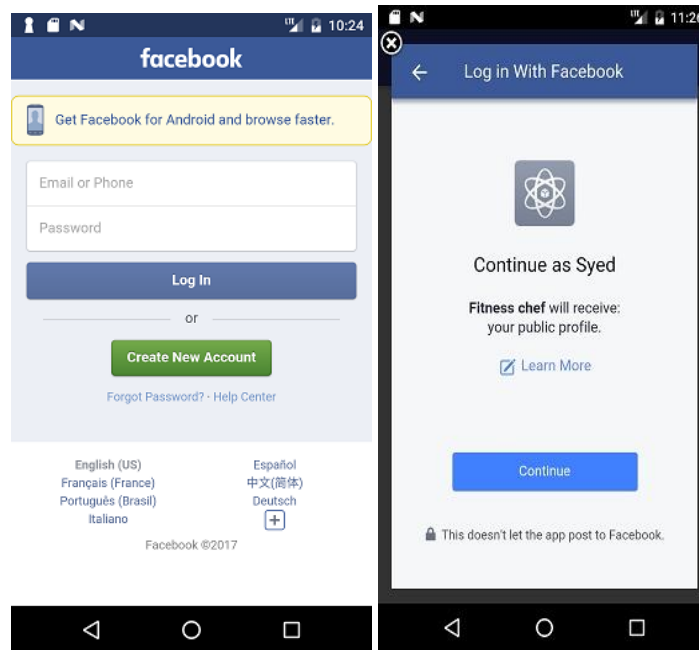
➤ **When the email and password mismatches**



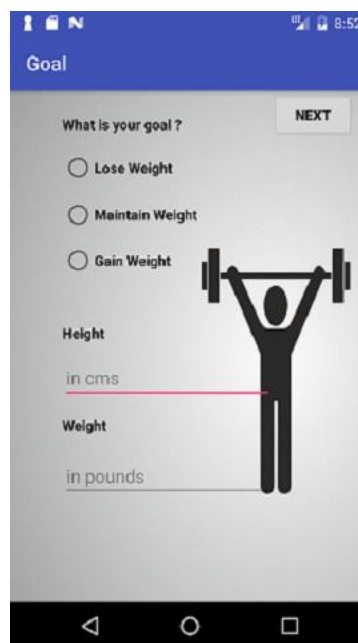
Signup page



Oauth Facebook



Goal Page



Goal Page Validations:

- When user leaves the fields empty

The screenshot shows the 'Goal' page of the Fitness Chef app. The title bar is blue with the word 'Goal' in white. Below the title bar, there is a question 'What is your goal ?' and a 'NEXT' button. Three radio buttons are visible: 'Lose Weight' (selected), 'Maintain Weight', and 'Gain Weight'. Below these, there are two input fields: 'Height' (with a placeholder 'in cms') and 'Weight' (with a placeholder 'in pounds'). Both fields have red exclamation mark icons next to them, indicating validation errors. A black tooltip with the text 'This field is required' is positioned over the 'Weight' field. The background of the page features a silhouette of a person lifting a barbell. The bottom of the screen shows the Android navigation bar.

Details page

The screenshot shows the 'Details' page of the Fitness Chef app. The title bar is blue with the word 'Details' in white. Below the title bar, there is a 'NEXT' button. The form contains several fields: 'Name' (with a placeholder 'Full Name'), 'Gender' (with radio buttons for 'male' and 'female'), 'First Cry' (with a placeholder 'dd/mm/yyyy'), 'Location' (with a placeholder 'City Name'), and 'City Name'. The background of the page features a close-up image of a person's legs and feet. The bottom of the screen shows the Android navigation bar.

4.4.2 Github Link:

The below is the Link for the GitHub Repository in which the project documentation and source code and the project, its analysis in burndowns and Zen hub tools are also present

<https://github.com/DevenderSarda/Project-Fitness-Chef>

4.5 Project Management

4.5.1 Implementation status report

4.5.1.1 Work completed

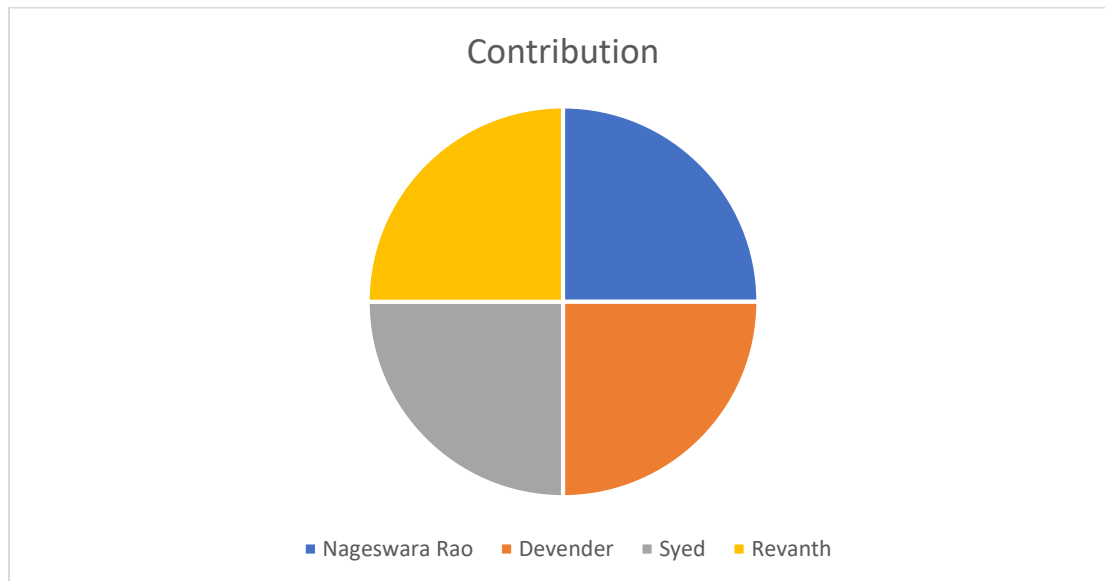
- **Description**

- Fitness chef android application
- Login and Registration Page
- Design and working of tracking calories page

- **Responsibility & Time taken**

- Landing Page, Nageswara Rao Nandigam 2hr.
- Login Page, Nageswara Rao Nandigam 3hr.
- Sign UP page , Devender Sarda 3hrs.
- Goal Page, Syed Moin 2hrs.
- Details Page, Revanth 2 hrs.
- Wireframes, Revanth 1 hrs.
- Integrating Projects, Every individual 2hrs.
- Project Increment Report, Every individual 6hrs.
- UML diagrams, Syed & Nageswara Rao 5hrs.
- Unit testing & app logo Revanth & Dev 4 Hrs

4.5.2.2 Contribution



4.5.1.2 Work to be completed

- **Description**

- Needs to Design body page
- Working on Image scanner API
- Needs to add few more features on dietary track

- **Responsibility**

- Design body page -Revanth & Nageswara Rao
- Image Scanner API - Devender & Moin
- Dietary Track - Each individual

5. Bibliography

<https://developer.edamam.com/edamam-nutrition-api>

<https://www.nutritionix.com/>

<https://developer.android.com/about/versions/nougat/index.html>

<https://material.io/icons/>

<https://developers.facebook.com/>