CS 5551 Advanced Software Engineering

Project First Increment Report

App Name: Get On Wheels

Team#: 4 (Elite4)

Team Members:
Namana Rajeswari Devi
Gogadi Sravanthi
Bhargavi Nadendla
Khushbu Shashikant Kolhe

Project Increment 1

1. Introduction

Get On Wheels is an application, which helps the user to find nearby restaurants, movie theaters and shopping malls, and helps in instantaneous planning, by providing the user with weather info for the day, a list of movies currently playing, food items available in restaurants etc. Also helps travelers as rating for searched locations will be provided and is flexible to use while driving as it reduces the typing time.

2. Project Goals and objectives

2.1 Overall Goals And Objectives:

It is an app related to:
1)Movies - where user can view the nearby movie theatres based on his/her location, see the movies list, their trailers, reviews, ratings, and book tickets through the link provided.
2) Meals - User will come to know the nearby restaurants , their ratings, their menu and cost in their area. The user will get a list of restaurants or can search a one of his choice. He will also be shown directions to that restaurant.
3)Shopping - Here user will be allowed to see the nearby shopping malls to his/her location or can enter a new location. When clicked on a specific mall on the map, all the details like its website, address, phone, rating, hours, photos will be displayed.

2.2 Significance and Specific Features :

It is a single multi purpose app to avoid excess user typing time especially while driving.
This app is useful in the following cases:

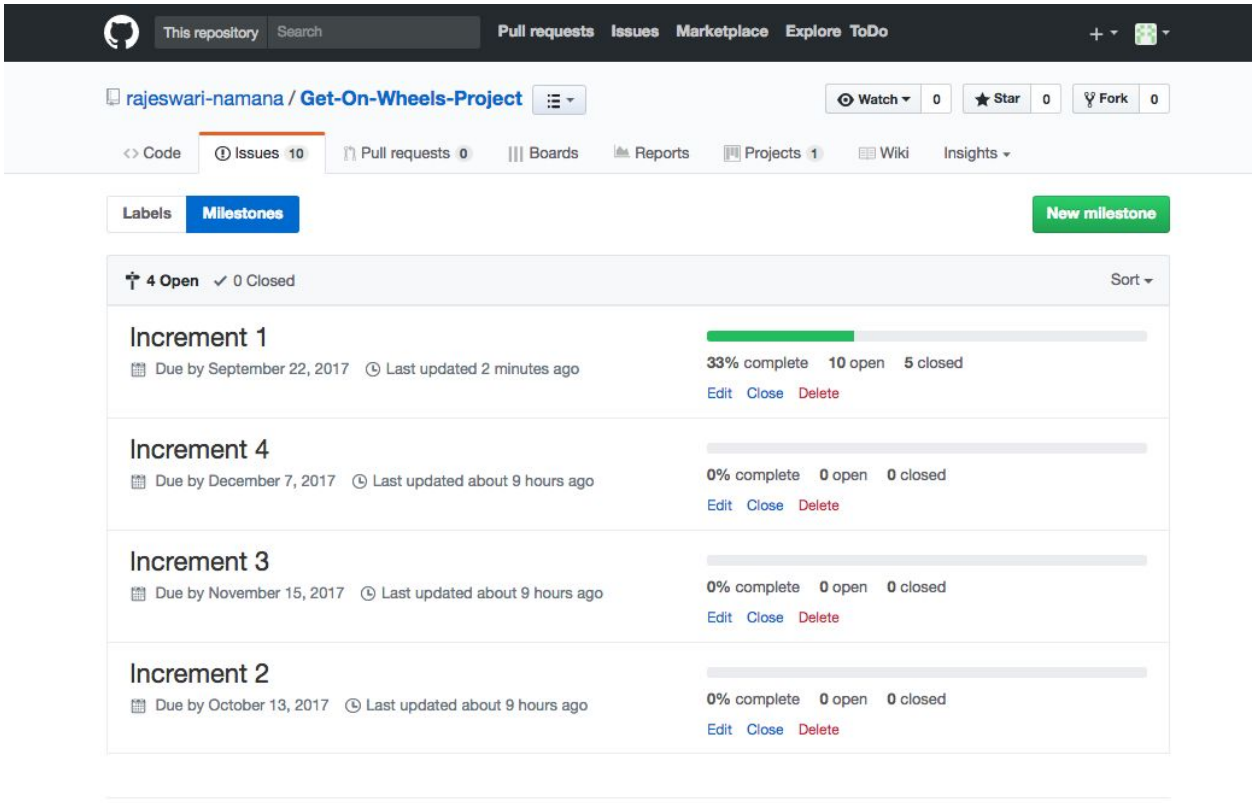
1) When the user is driving and doesn't want to keep typing and searching for different places (even weather info for the day without typing the location will be displayed on the start screen).

2) It's a perfect app for enjoying a whole day out (helpful for instantaneous planning).
3) Useful when travelling to new places.
4) Avoids waiting time while food pickups and airport delays

3. Project Plan

3.1 Schedule for the four different increments

Project is completed in four increments, the schedules are shown in below screenshot:



3.2 Members:

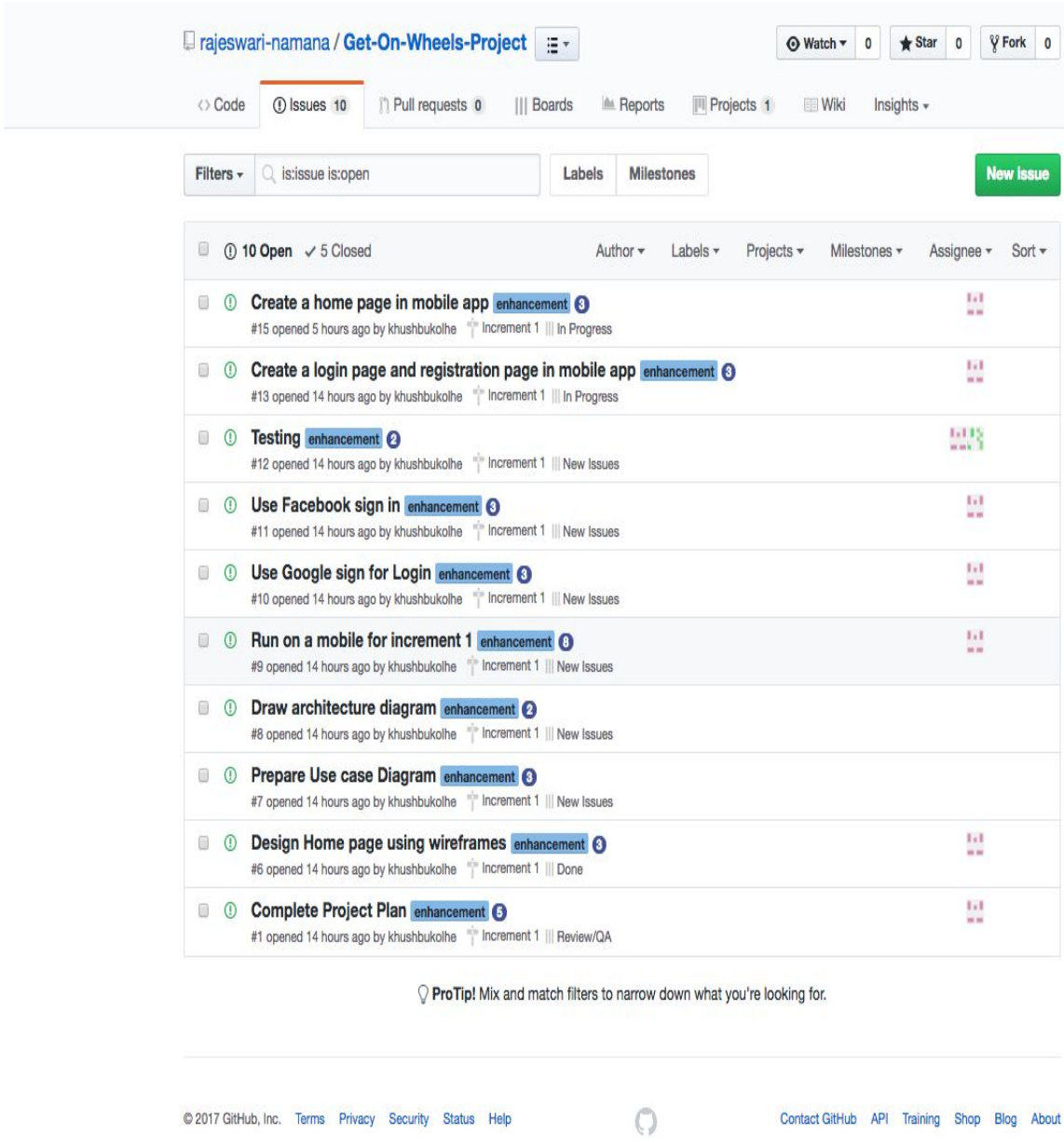
1. Namana Rajeswari Devi
2. Gogadi Sravanthi
3. Bhargavi Nadendla
4. Khushbu Shashikant Kolhe

3.3 Task Responsibility

The project implementation is a team effort with every member getting involved in discussing different app functionalities and APIs to implement, and the responsibilities of team members are:
1) Rajeswari - Team lead responsible for coordinating with team members, designing logo, designing UI of application using wireframes, architecture diagram and documentation.
2) Sravanthi - responsible for designing use case diagram, implementing Oauth logins, Home Page and trying different test cases.
3) Bhargavi - responsible for designing sequence diagram, implementing, deploying Login, Register Pages and designing the layout of pages implemented.
4) Khushbu - responsible for designing class diagram, implementing agile methodology buy assigning issues, creating storyboard, burndown charts, closing issues by using zenhub tool.
Below are the issues that are created under first increment.

3.3.1 Issues Screenshot:

- Tasks are assigned to different team members.
- Once, the tasks are completed, they are closed.


rajeswari-namana / Get-On-Wheels-Project
Watch 0
Star 0
Fork 0
Code
Issues 10
Pull requests 0
Boards
Reports
Projects 1
Wiki
Insights
Filters
is:issue is:open
Labels
Milestones
New issue
10 Open
5 Closed
Author
Labels
Projects
Milestones
Assignee
Sort
Create a home page in mobile app enhancement 3
#15 opened 5 hours ago by khushbukolhe Increment 1 In Progress
Create a login page and registration page in mobile app enhancement 3
#13 opened 14 hours ago by khushbukolhe Increment 1 In Progress
Testing enhancement 2
#12 opened 14 hours ago by khushbukolhe Increment 1 New Issues
Use Facebook sign in enhancement 3
#11 opened 14 hours ago by khushbukolhe Increment 1 New Issues
Use Google sign for Login enhancement 3
#10 opened 14 hours ago by khushbukolhe Increment 1 New Issues
Run on a mobile for increment 1 enhancement 8
#9 opened 14 hours ago by khushbukolhe Increment 1 New Issues
Draw architecture diagram enhancement 2
#8 opened 14 hours ago by khushbukolhe Increment 1 New Issues
Prepare Use case Diagram enhancement 3
#7 opened 14 hours ago by khushbukolhe Increment 1 New Issues
Design Home page using wireframes enhancement 3
#6 opened 14 hours ago by khushbukolhe Increment 1 Done
Complete Project Plan enhancement 5
#1 opened 14 hours ago by khushbukolhe Increment 1 Review/QA
ProTip! Mix and match filters to narrow down what you're looking for.
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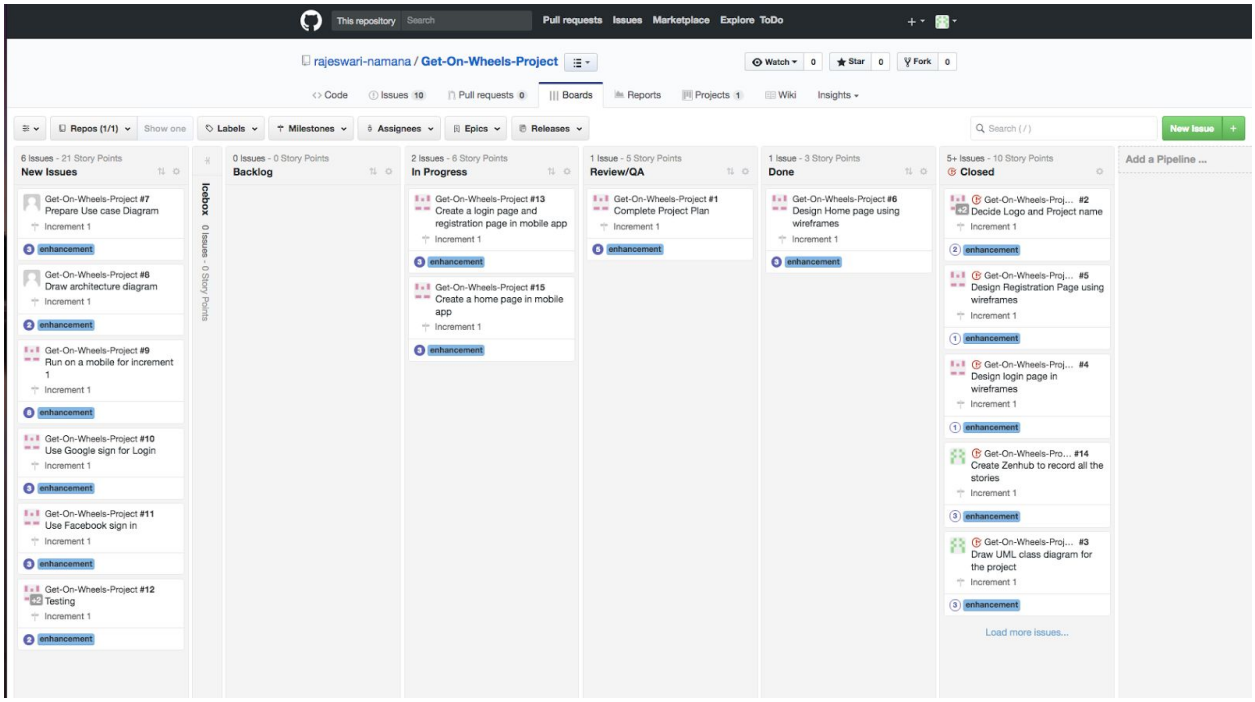
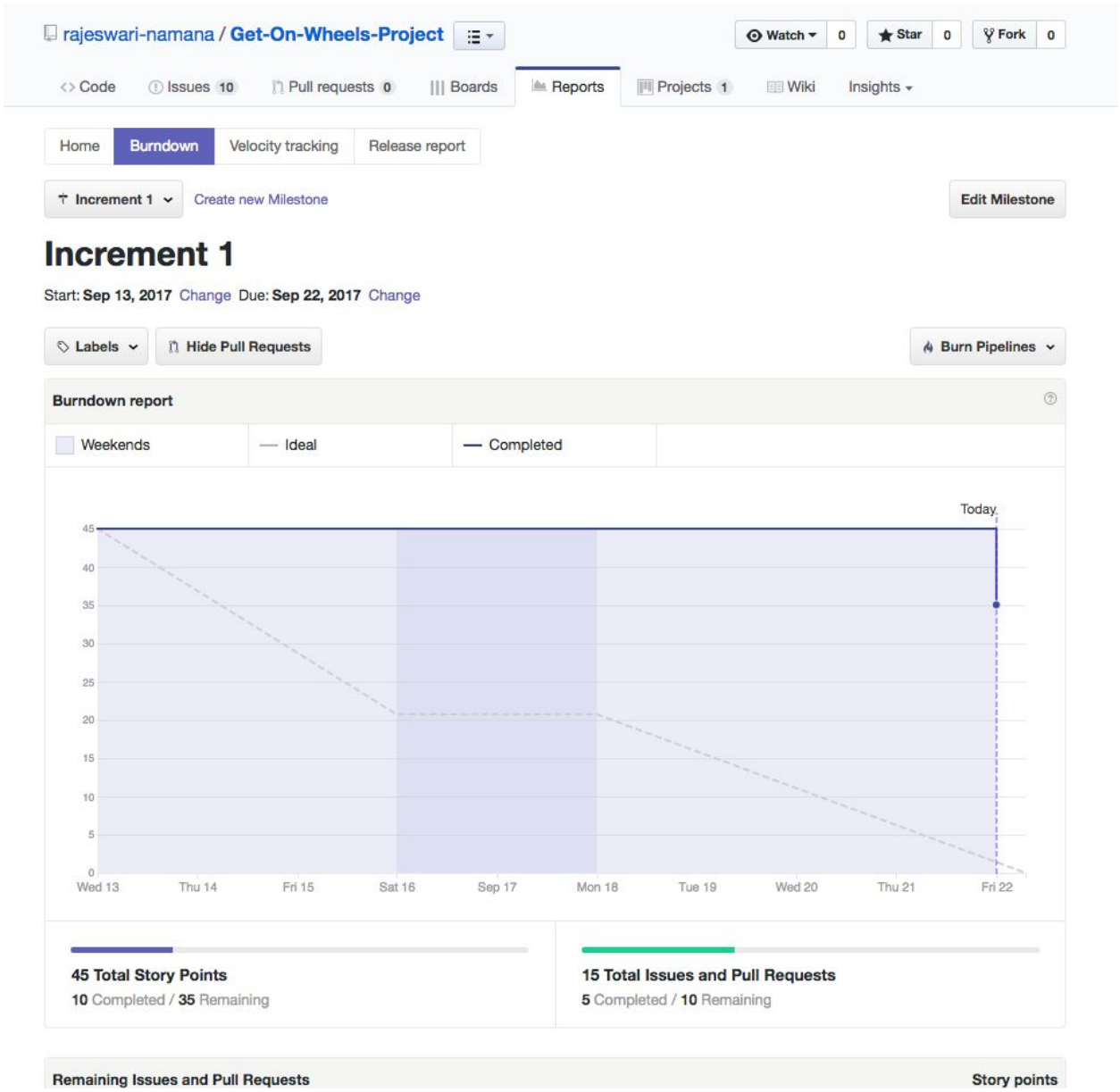
Remaining Issues and Pull Requests	Story points
Complete Project Plan enhancement Get-On-Wheels-Project **#1** Review/QA Increment 1	5
Design Home page using wireframes enhancement Get-On-Wheels-Project **#6** Done Increment 1	3
Prepare Use case Diagram enhancement Get-On-Wheels-Project **#7** New Issues Increment 1	3
Draw architecture diagram enhancement Get-On-Wheels-Project **#8** New Issues Increment 1	2
Run on a mobile for increment 1 enhancement Get-On-Wheels-Project **#9** New Issues Increment 1	8
Use Google sign for Login enhancement Get-On-Wheels-Project **#10** New Issues Increment 1	3
Use Facebook sign in enhancement Get-On-Wheels-Project **#11** New Issues Increment 1	3
Testing enhancement Get-On-Wheels-Project **#12** New Issues Increment 1	2
Create a login page and registration page in mobile app enhancement Get-On-Wheels-Project **#13** In Progress Increment 1	3
Create a home page in mobile app enhancement Get-On-Wheels-Project **#15** In Progress Increment 1	3

Completed Issues and Pull Requests	Story points
Decide Logo and Project name enhancement Get-On-Wheels-Project **#2** Done Increment 1	2
Draw UML class diagram for the project enhancement Get-On-Wheels-Project **#3** Done Increment 1	3
Design login page in wireframes enhancement Get-On-Wheels-Project **#4** Review/QA Increment 1	1
Design Registration Page using wireframes enhancement Get-On-Wheels-Project **#5** New Issues Increment 1	1
Create Zenhub to record all the stories enhancement Get-On-Wheels-Project **#14** Done Increment 1	3

3.3.2 Storyboard Screenshot:



3.3.3 Burndown Chart:



4. First Increment Report

In the first increment we have designed the whole layout of the app, consisting UI designs of Login, Register, Weather Info, Home, Movies, Meals and Shopping pages. Designed a logo for the app, decided on the architecture and APIs to be used, designed class diagram, sequence diagram, use case diagram. We implemented Login, Register, Home pages and included Facebook and Gmail OAuth logins.

4.1 Existing Services/REST API

Our app will make use of the following APIs:

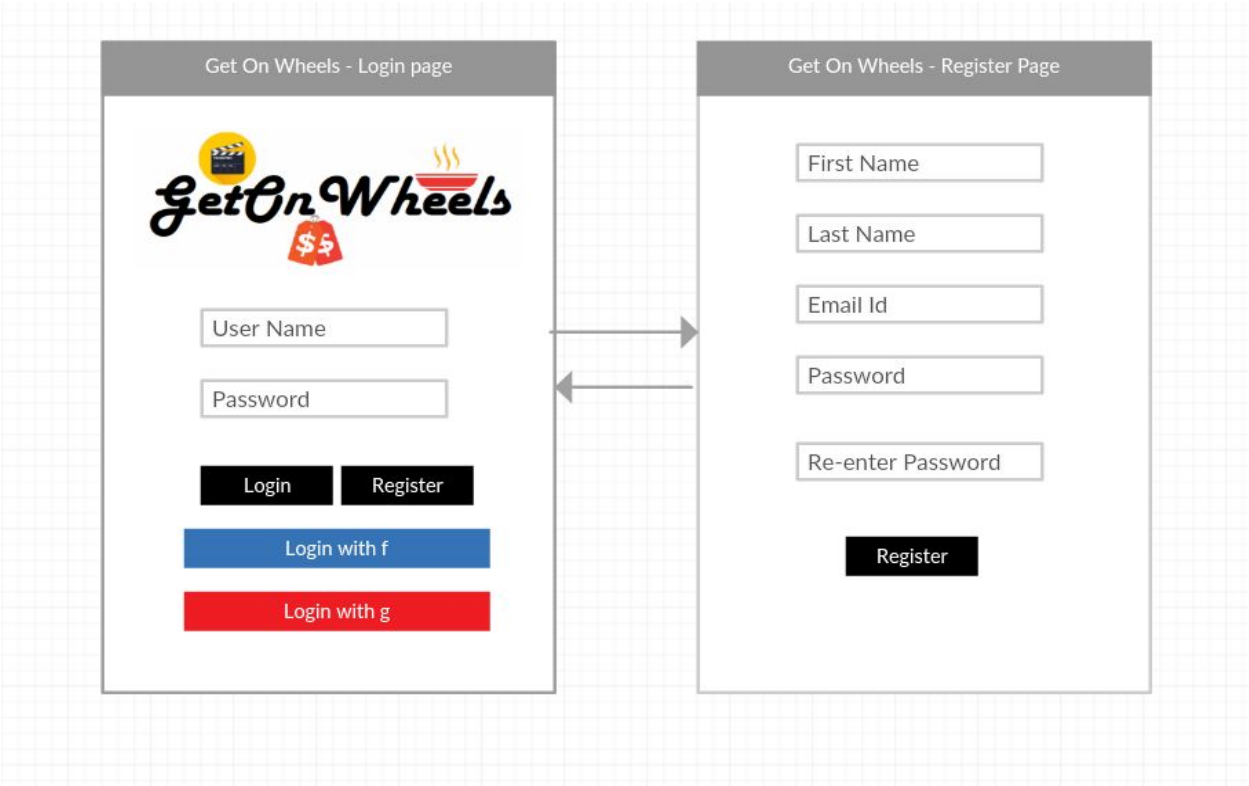
- Google Maps API - for displaying maps
- Open Weather Map API - for weather information
- Gracenote Developer Video+Sports API - for movies information
- TMDB API - for movies information
- Google Places API - for shopping malls information
- Foursquare API - for restaurants and food information
- Opentable API - for restaurants and food information

4.2 Detail Design of Features

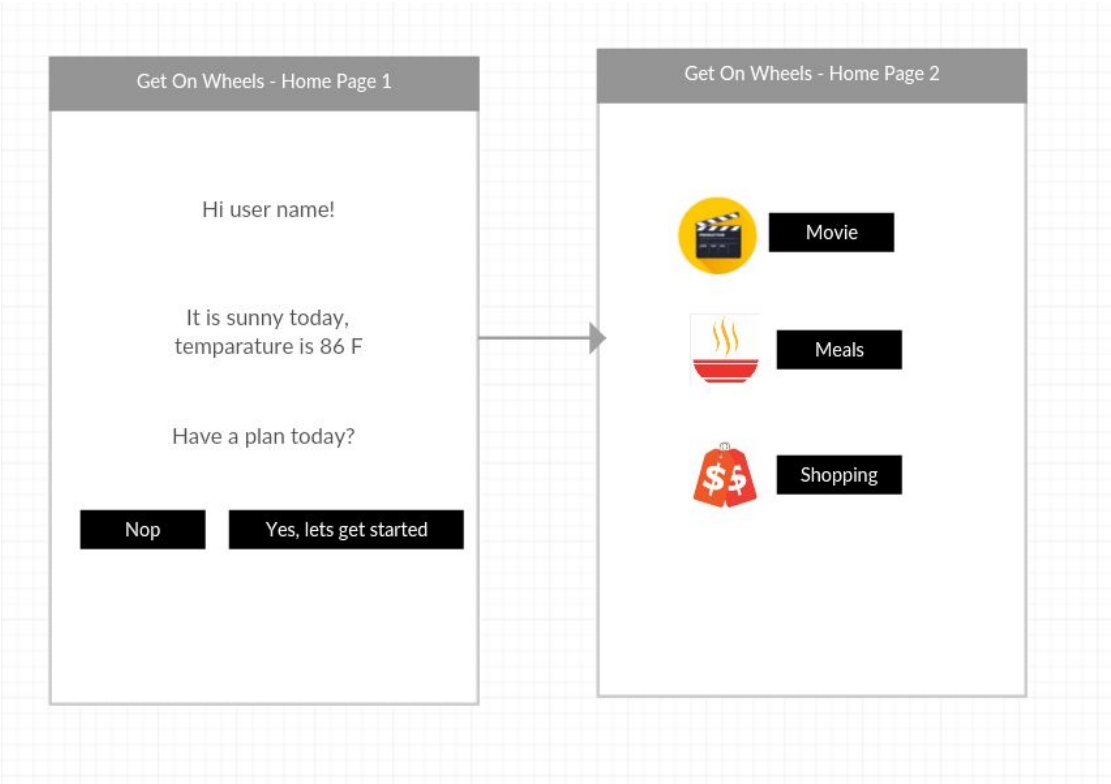
4.2.1 Logo Design:

4.2.2 Mockup Using Creately tool:

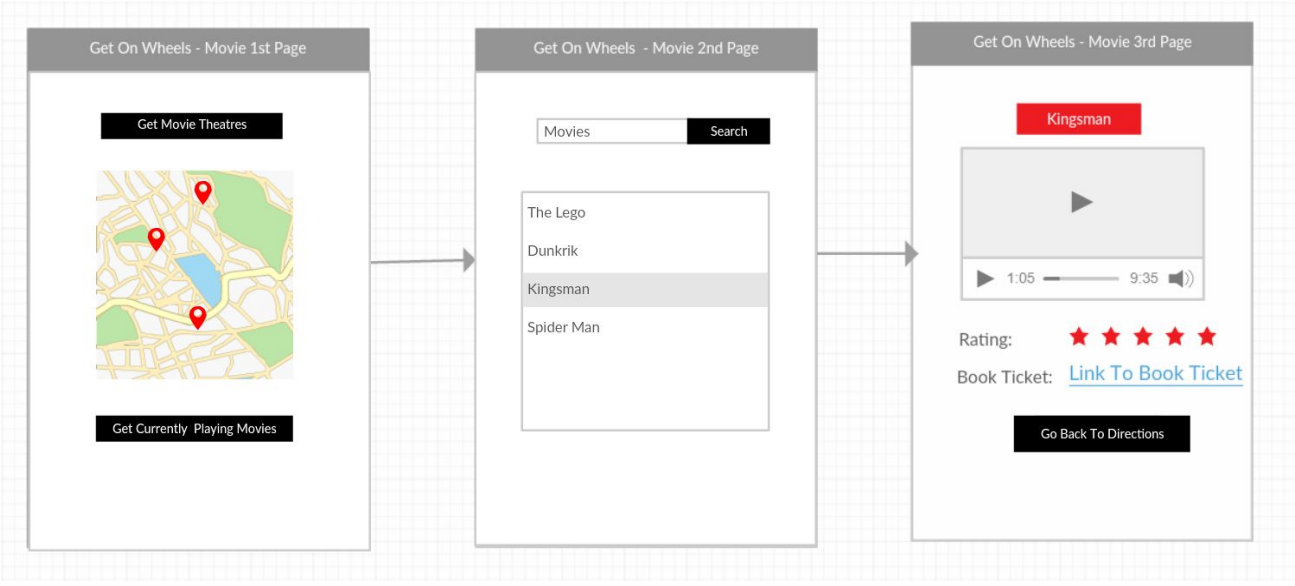
Screen 1 (Login & Registration Pages) - The user will be able to login or sign up using either his/her user name, facebook or google account.



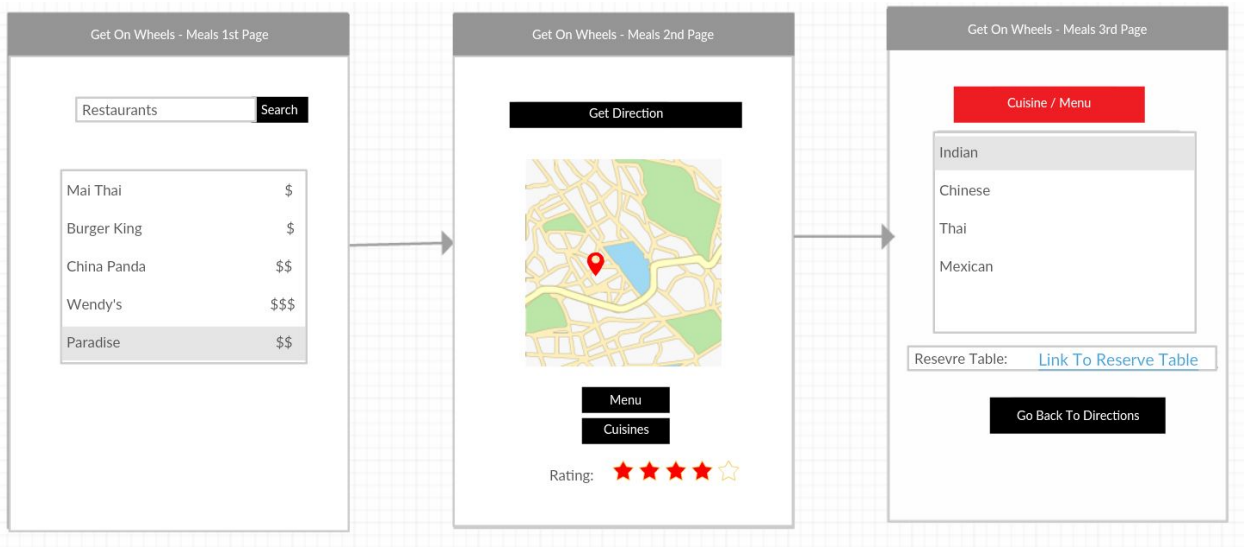
Screen 2, 3 (Weather Info & Home Pages) - After user logins, the person will be greeted with the name which was entered for login, then below that - the weather information for the day will be displayed based on the location of the user and a question will be asked - “Have a plan for the day?” - Displaying two options 1)”NOP” and 2)”YEP, let’s get started”. If 1st option is chosen the app replies “okay, have a great time, see you later!” and the app gets closed. For 2nd option, we get navigated to screen 3. List of three options will be displayed: 1)Movie 2)Meals 3)Shopping. Based on the selection the screen will be navigated to the corresponding fourth screen.



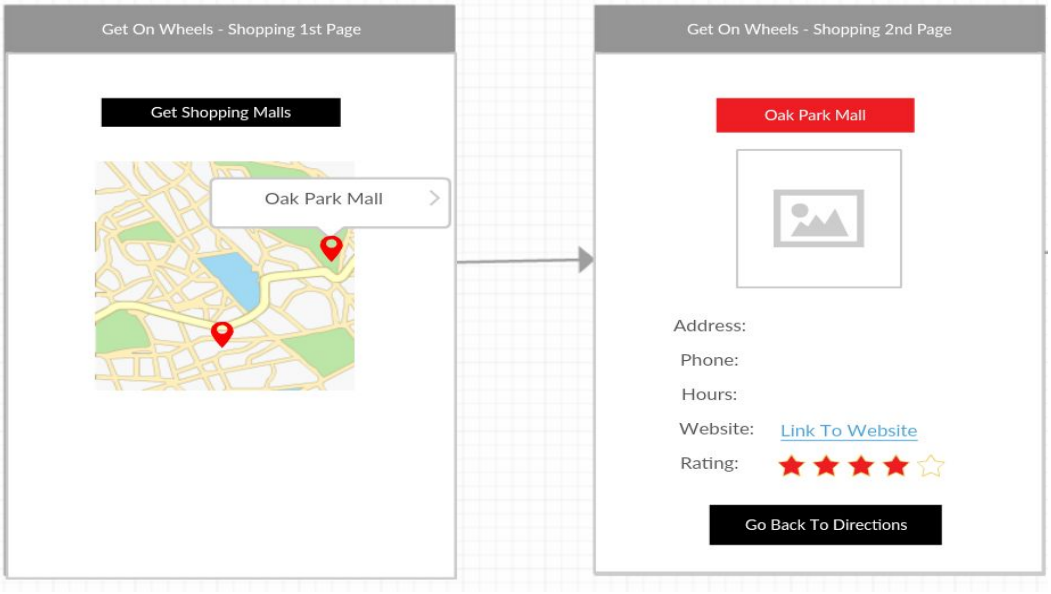
Screen 4, 5, 6 (for Movies) - In screen 4 based on user location, when the user clicks on "Get Movie Theatres" button, movie theatres will be populated on the existing map. Instead if user clicks on "Get Currently Playing Movies", a list of currently playing movies will be displayed in screen 5. On selecting a movie, its trailer, rating and link to book tickets will be displayed on the 6th screen and there is also a button to go back to the directions of theatre.



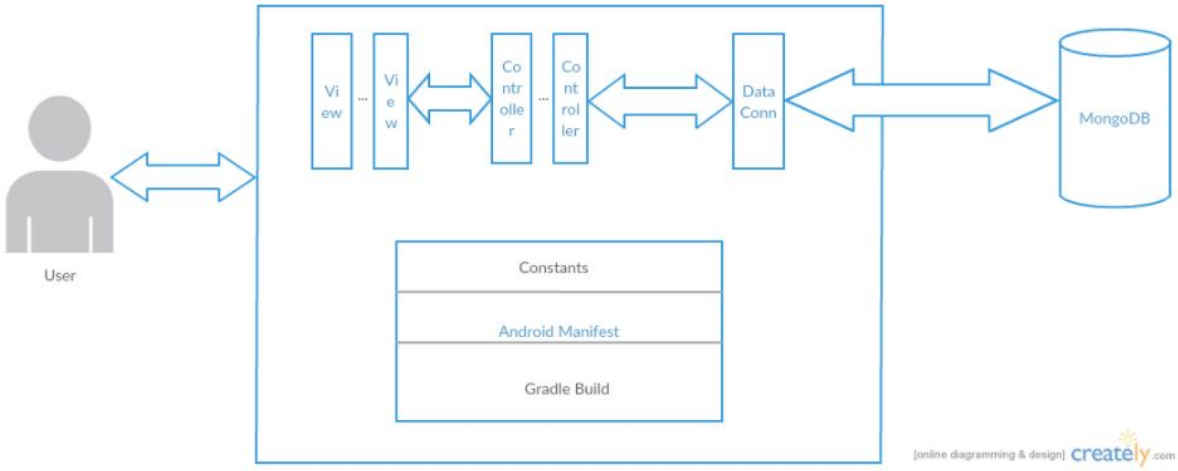
Screen 4, 5, 6 (for Meals) - On selection of restaurants user will be directed to the page containing list of restaurants in that area. For each restaurant its cost variation will also be given. A search is also provided on the same page if user wish to search his favourite restaurant. On clicking on any of the restaurant, user will be navigated to page 5 which contains map and below that have options to select “Menu”, “Cuisines”, “View Ratings”. The map will show the directions from his current location to the restaurant. On clicking on “Menu” or “ Cuisines” he will be directed to page 6 displaying the respective information.



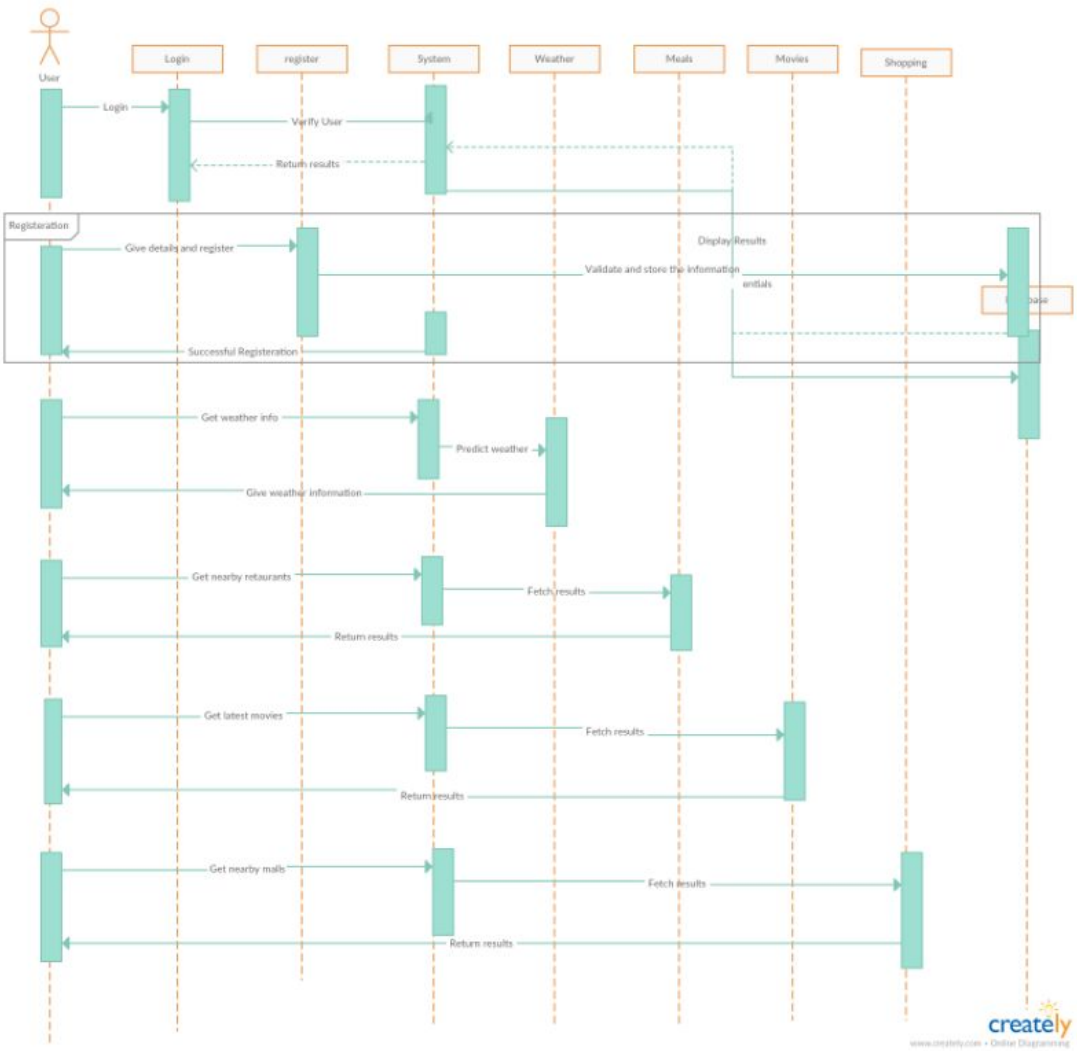
Screen 4,5 (for Shopping) - On selection of third option Shopping, the user will be have a button “Get Shopping Malls”, by clicking it all the shopping places near to the customer will be displayed on the map. If shopping area is selected, its details like address, phone, hours, website, rating will be displayed on the next screen. And a button to go back to directions will be present.



4.2.3 Architecture diagram:

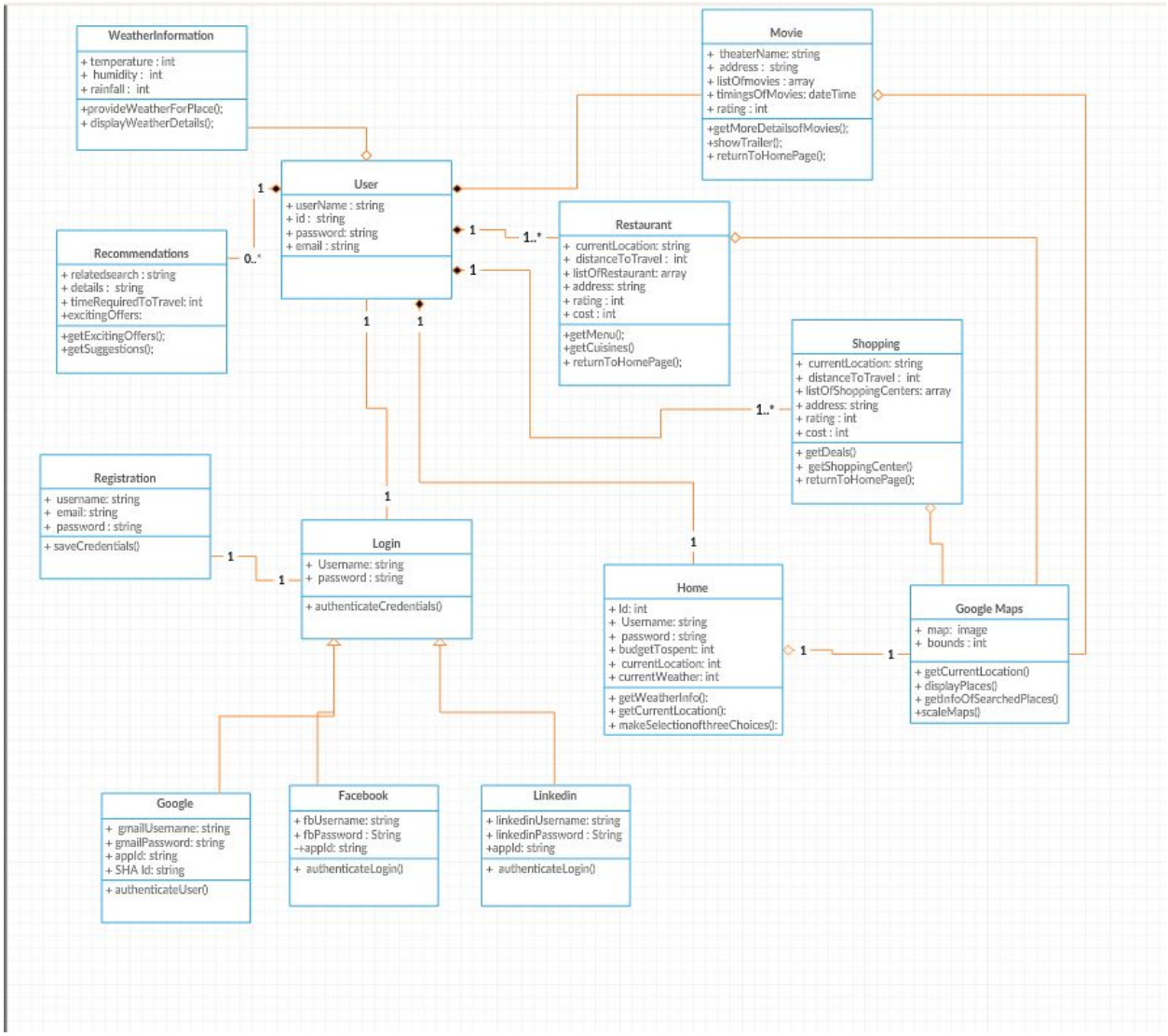


4.2.4 Sequence diagram:



4.2.5 Class diagram:

The user is associated with home, restaurant, movie and shopping class. The user can register and login or can login using Facebook, twitter. Google maps are widely used in the app and are associated with restaurant , shopping and movie class. They will tell the current location and address of a particular location. Weather Info class will display weather conditions at a users current locations. Recommendations class will recommend user of any events in that area.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+ password : string
+ saveCredentials()
Login
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+ password : string
+ authenticateCredentials()
Home
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+ Username: string
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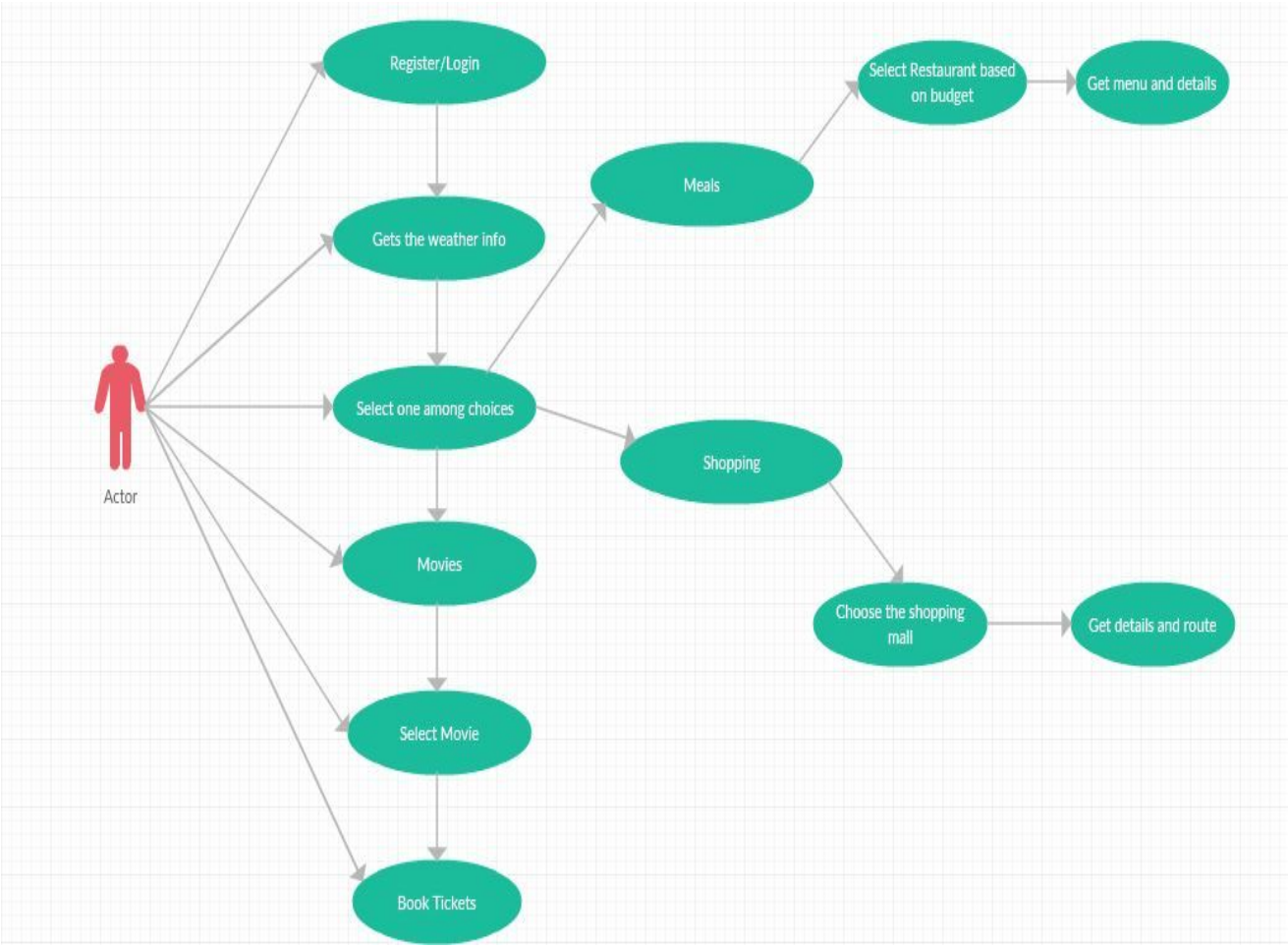
+ authenticateLogin()

4.2.6 Usecase Diagram:



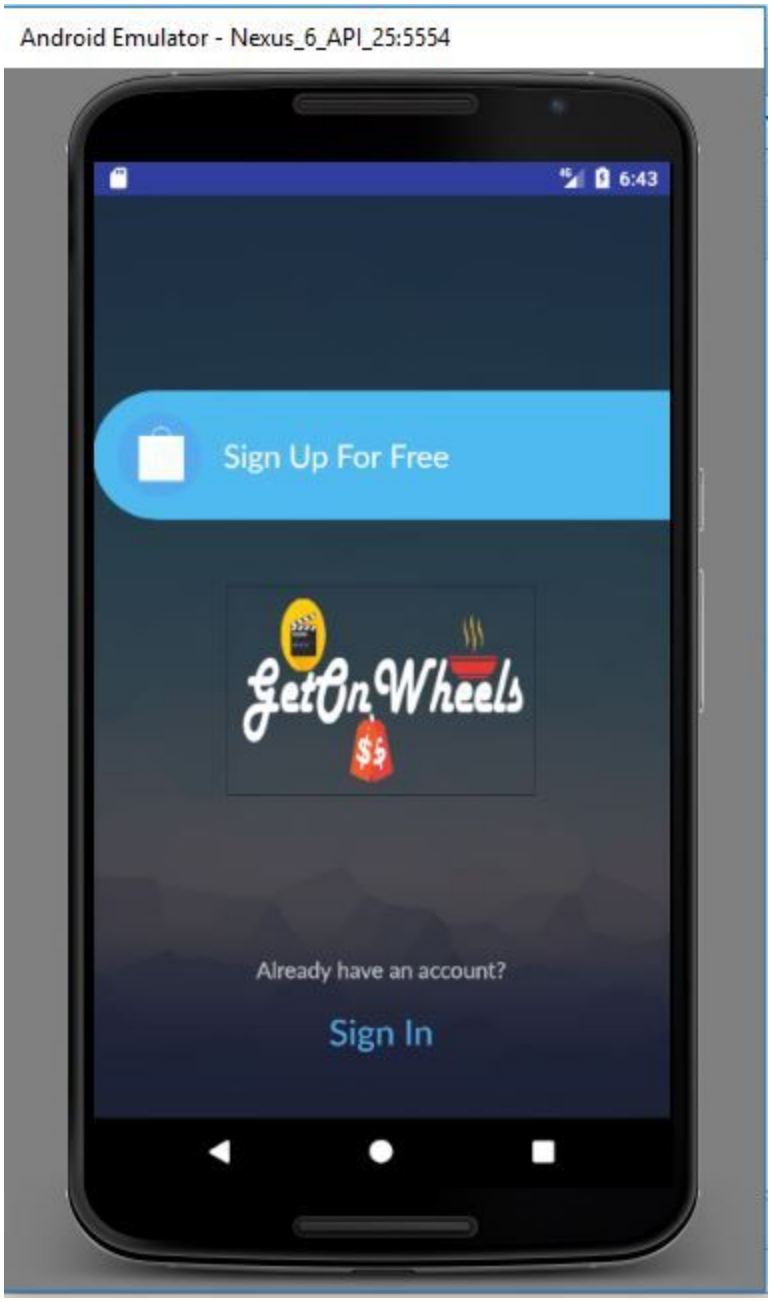
4.3 Testing

Performed UI testing, functional testing, integration testing for all the four screens i.e start screen, login, register and home screen.

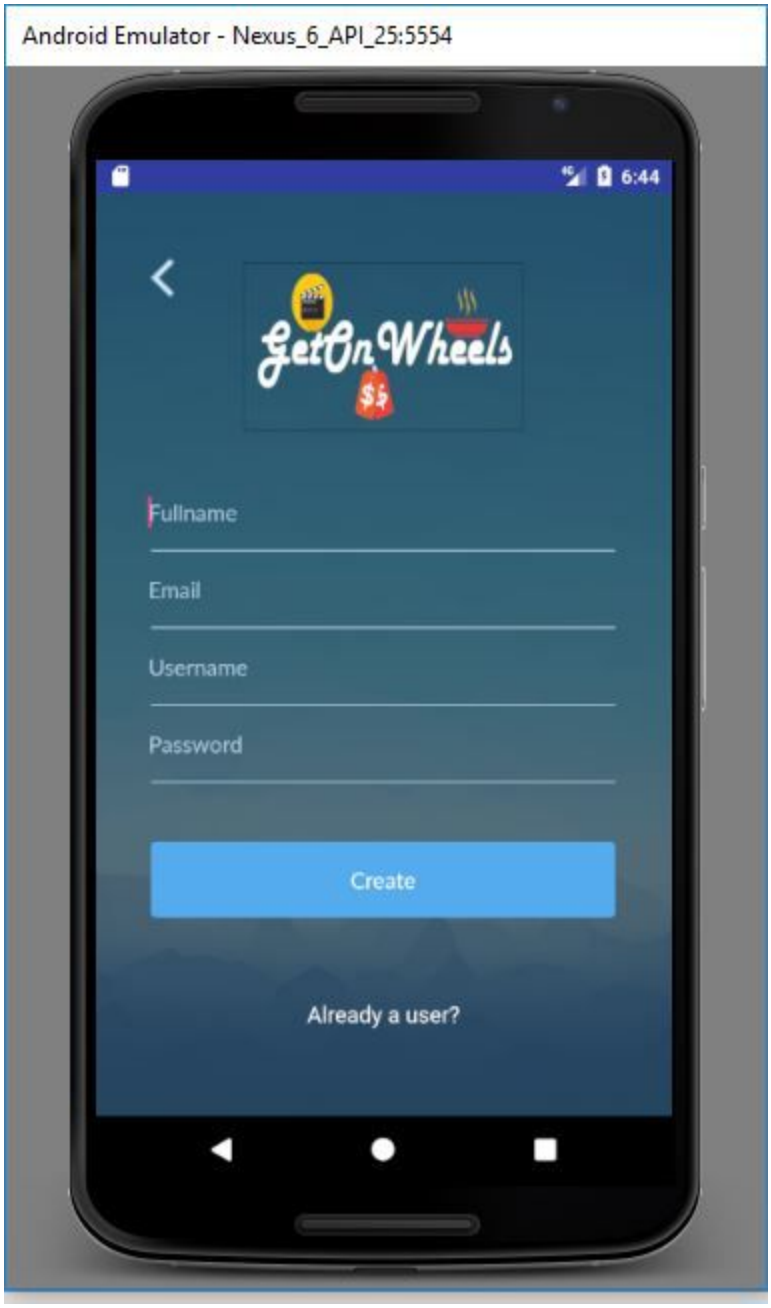
4.4 Implementation

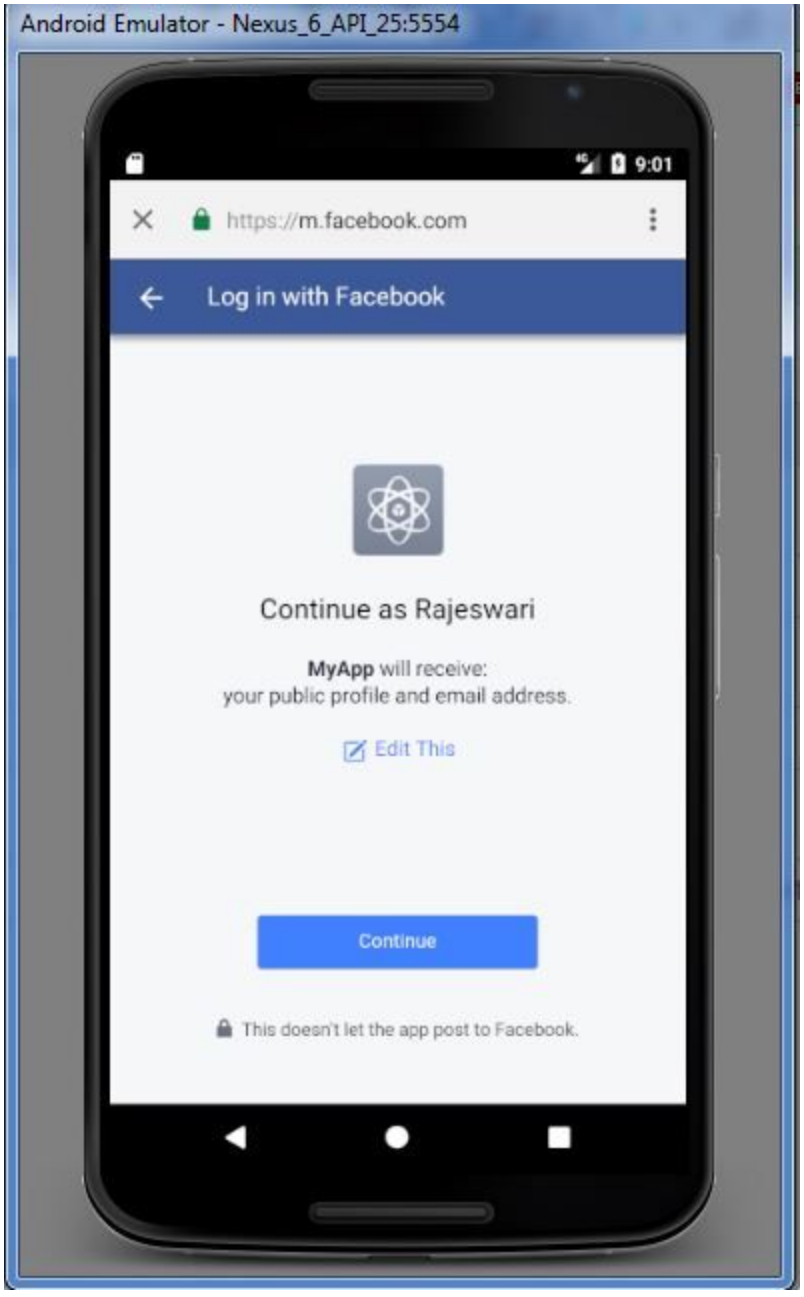
Partial implementation of Login, Registration and home pages is completed in this increment.

4.5 Deployment




Android Emulator - Nexus_6_API_25:5554
6:04
GetOnWheels
Username
Password
Login
SignUp
Forgot Password!
Facebook
Google+


Android Emulator - Nexus_6_API_25:5554
6:44
GetOnWheels
Fullname
Email
Username
Password
Create
Already a user?



4.6 Project Management

4.6.1 Implementation status report: COMPLETED

4.6.2 Work completed:

- **Description:**

Revised project proposal and project plan. Designed app logo, UI of application, architecture diagram, class diagram, sequence diagram, use case diagram, implemented Login, Register and Home Pages and implemented OAuth logins of facebook and google+, deployed the app in Android device, tested the app. For accomplishing these tasks followed agile methodology using Zenhub tool.

- **Responsibility:**

All the work assigned to individual team member as mentioned in the section “3.3 Task Responsibility” has been successfully completed.

- **Time Taken:**

  Each team member worked for around 15 hours to complete increment 1.

- **Contribution:**

1) Namana Rajeswari Devi - 25%
2) Gogadi Sravanthi - 25%
3) Bhargavi Nadendla - 25%
4) Khushbu Shashikant Kolhe - 25%

- **Work to be completed:**

  No work is pending in increment 1.

4.6.3 Issues/Concerns: No issues

4.7 Bibliography

1. https://developer.android.com/index.html
2. https://www.themoviedb.org/documentation/api
3. https://developer.foursquare.com/
4. http://api.eventful.com/
5. https://openweathermap.org/api
6. https://developers.google.com/places/
7. https://opentable.herokuapp.com/
8. https://developers.facebook.com/docs/