



UNIVERSITY OF MISSOURI-KANSAS CITY

“Project Plan and Fourth Increment”

“Spring 2017”

“Submitted by Team 13”

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1. Introduction

“City Guide” When we keep travelling to different places, there is always a limitation of information about the place and information we are travelling to. Therefore, this encouraged us for a travel guide mobile application as smartphones are evolving exponentially and becoming popular to offer greater services to multiple users using their Geo-Location etc. We as tourists will be able to know and explore many new tourists’ places just by viewing the information in the application. This will also enable easy travel planning by knowing the Places, Events and developments happening all around the places we visited.

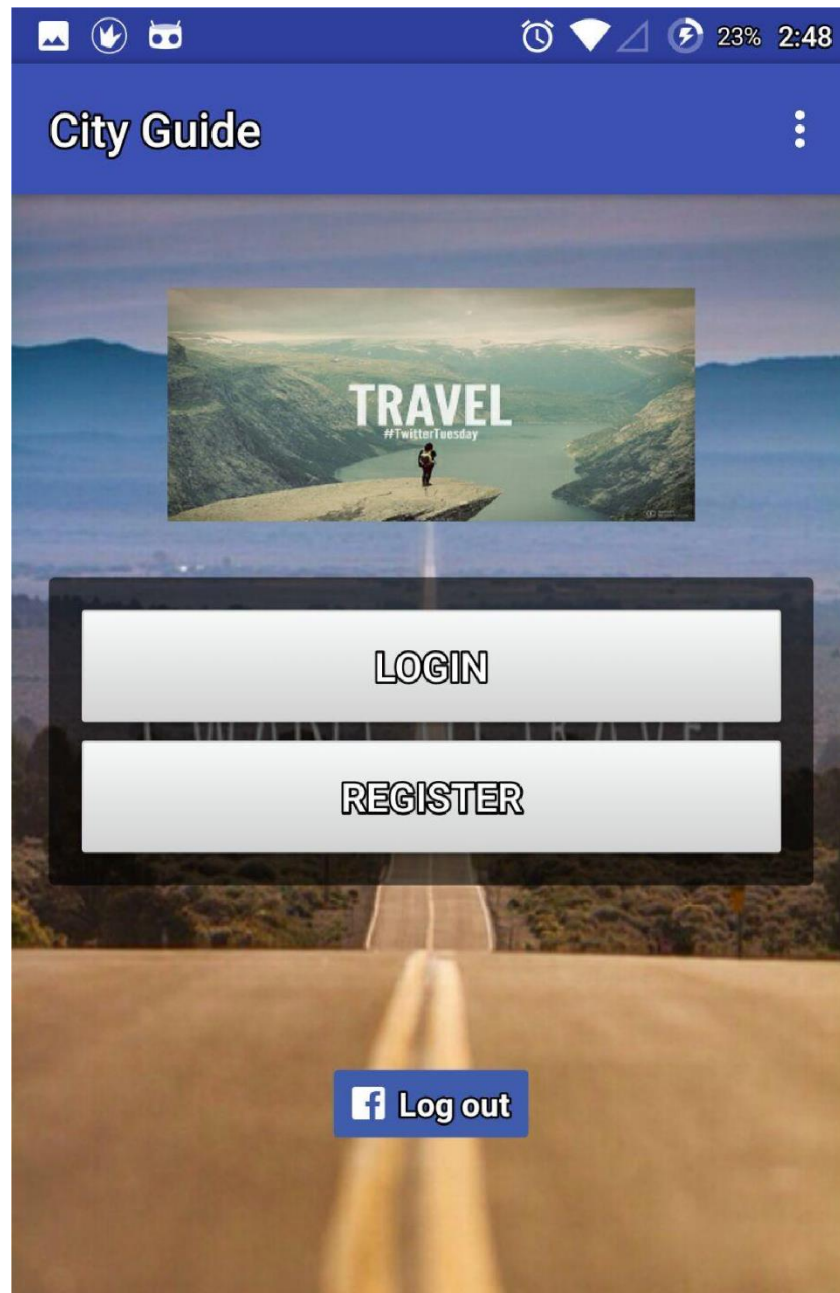
2. Project Deployment & Project Management

Application:

Guidelines for a User:

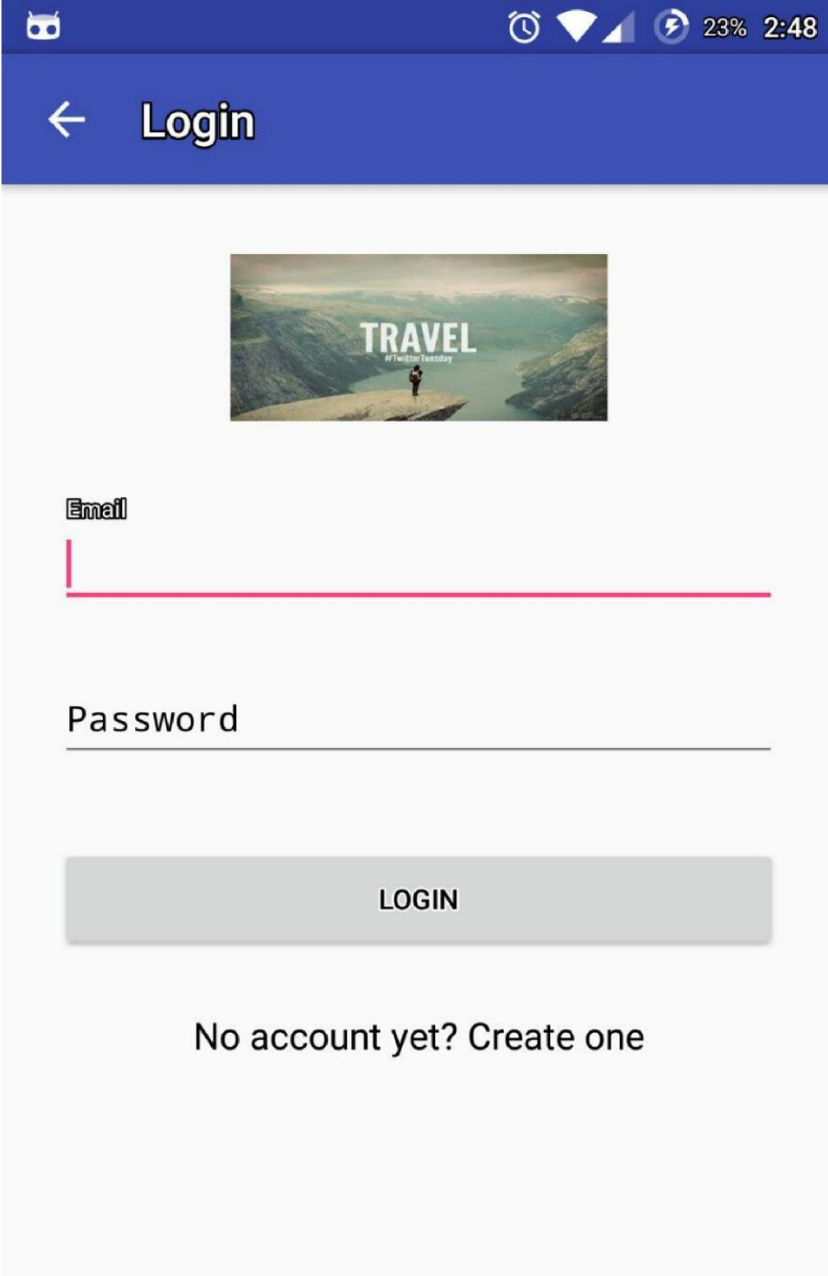
2.1 Landing Page of the Application:

By launching the application, A landing page is displayed which consists of Login, Register buttons along with the Facebook login button.



2.2 Login Page:

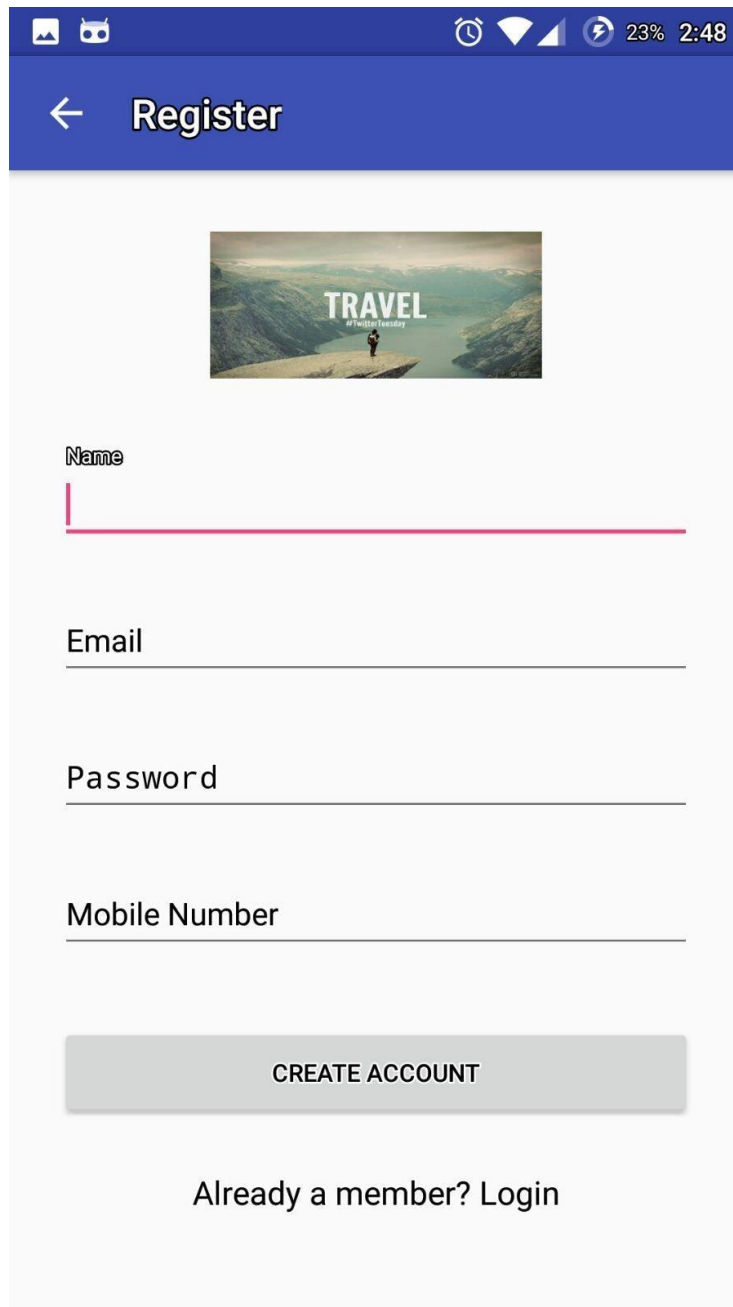
By clicking on the Login Button the Application gets navigated to the Login Page which consists of Email and Password attributes, after filling the details user clicks on login after successful login user gets navigated to the Home Page. If the user is new to the application then by clicking on “No account yet? Create one” the user gets navigated to registration page where he can register to use the application.



The screenshot shows a mobile application interface for a login page. At the top, there is a blue header bar with a back arrow icon on the left and the word "Login" in white text. Above the header, the Android status bar is visible, showing icons for a robot, alarm, Wi-Fi, signal, battery (23%), and time (2:48). Below the header, there is a promotional image for "TRAVEL" with the text "At Twinkl Tuesday" and a person standing on a cliff overlooking a lake. Below the image, there are two input fields: "Email" with a pink underline and "Password" with a grey underline. Below these fields is a grey button labeled "LOGIN". At the bottom, there is a text link that says "No account yet? Create one".

2.3 Registration Page:

If the user is new to application, by clicking on the Register button in the landing page he gets navigated to the registration page where Name, Email, Password, and Mobile Number attributes are present. After Clicking on the register button user gets registered and navigated to login page and after successful login he gets navigated to home page.



← Register

TRAVEL
#TravelTuesday

Name

Email

Password

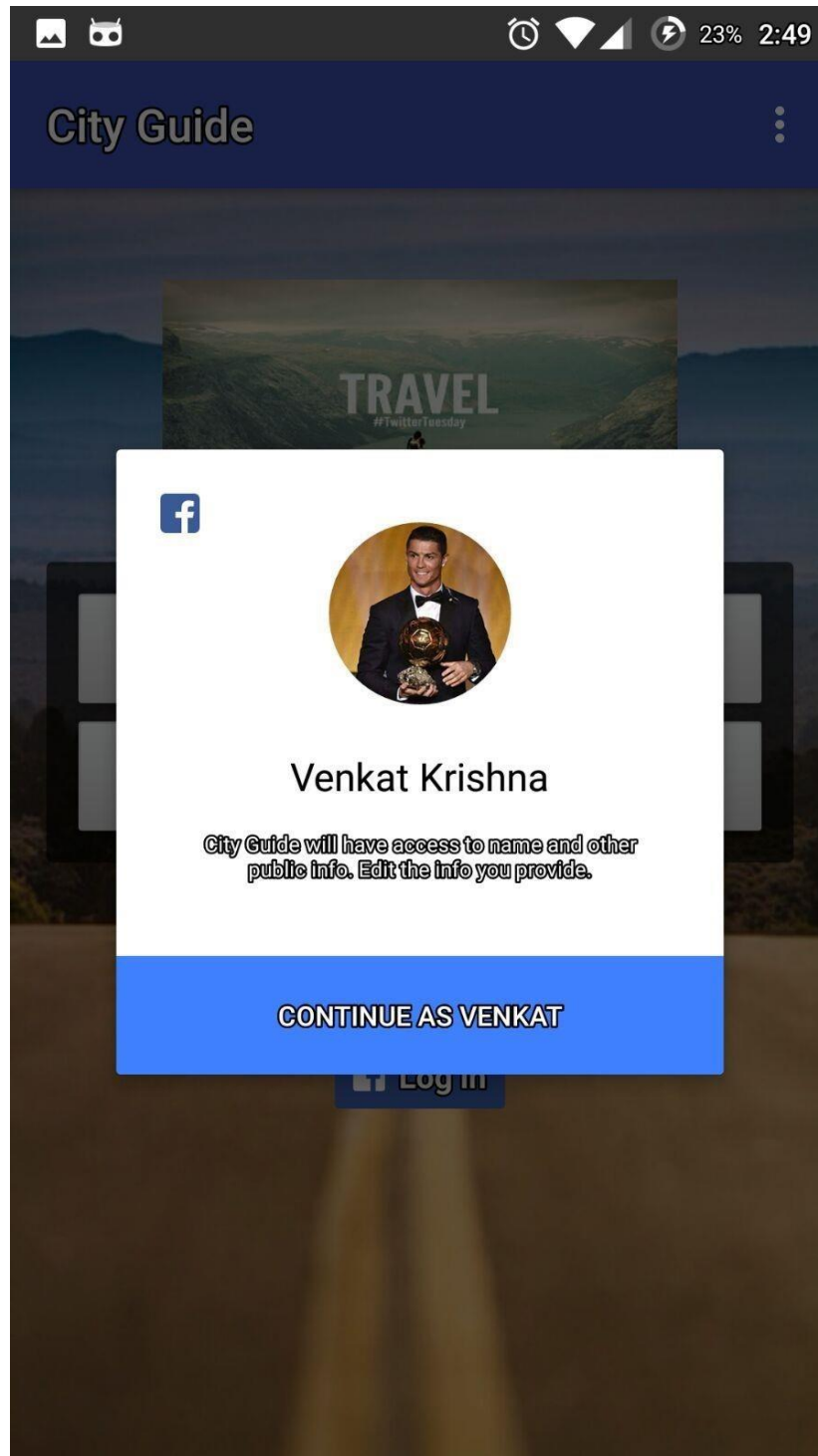
Mobile Number

CREATE ACCOUNT

Already a member? Login

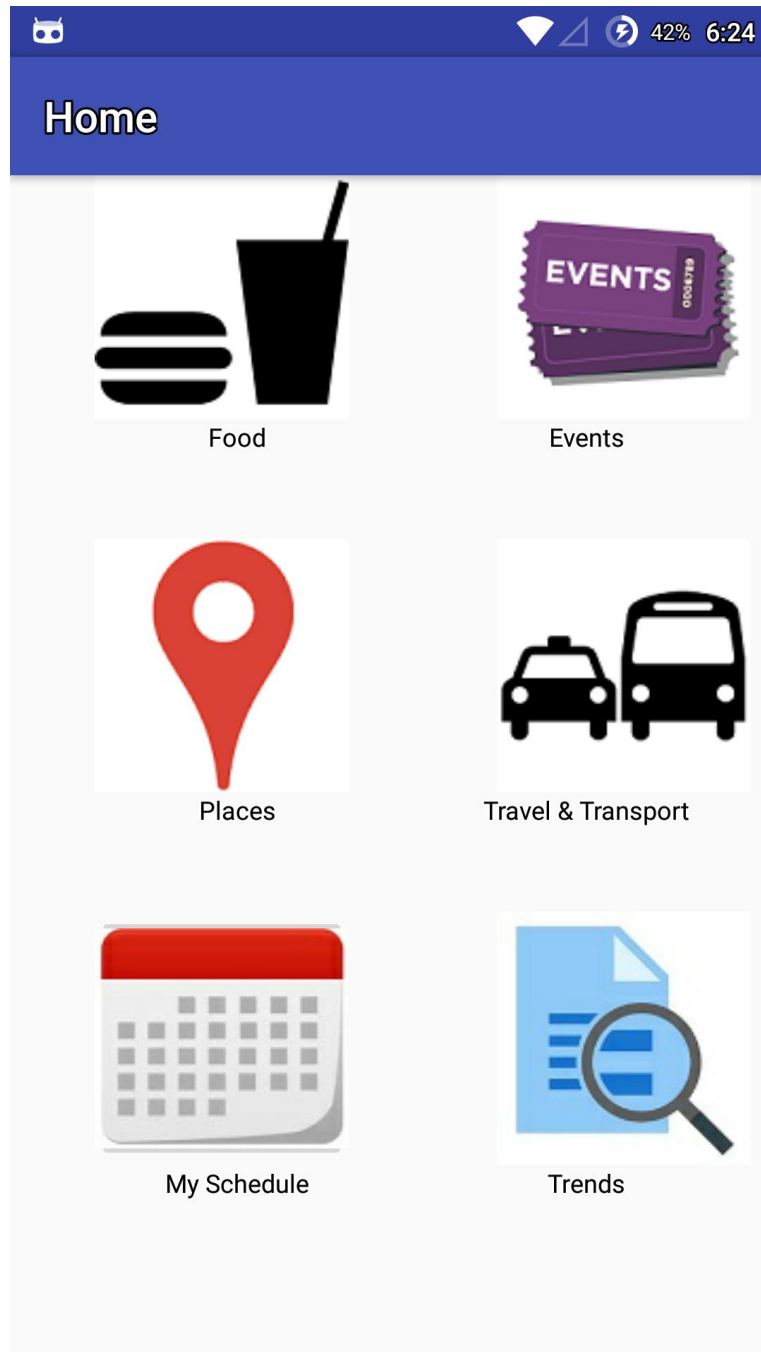
2.4 Facebook Login:

User can also use his Facebook credentials to use the application, by clicking on the Facebook login button in landing page.



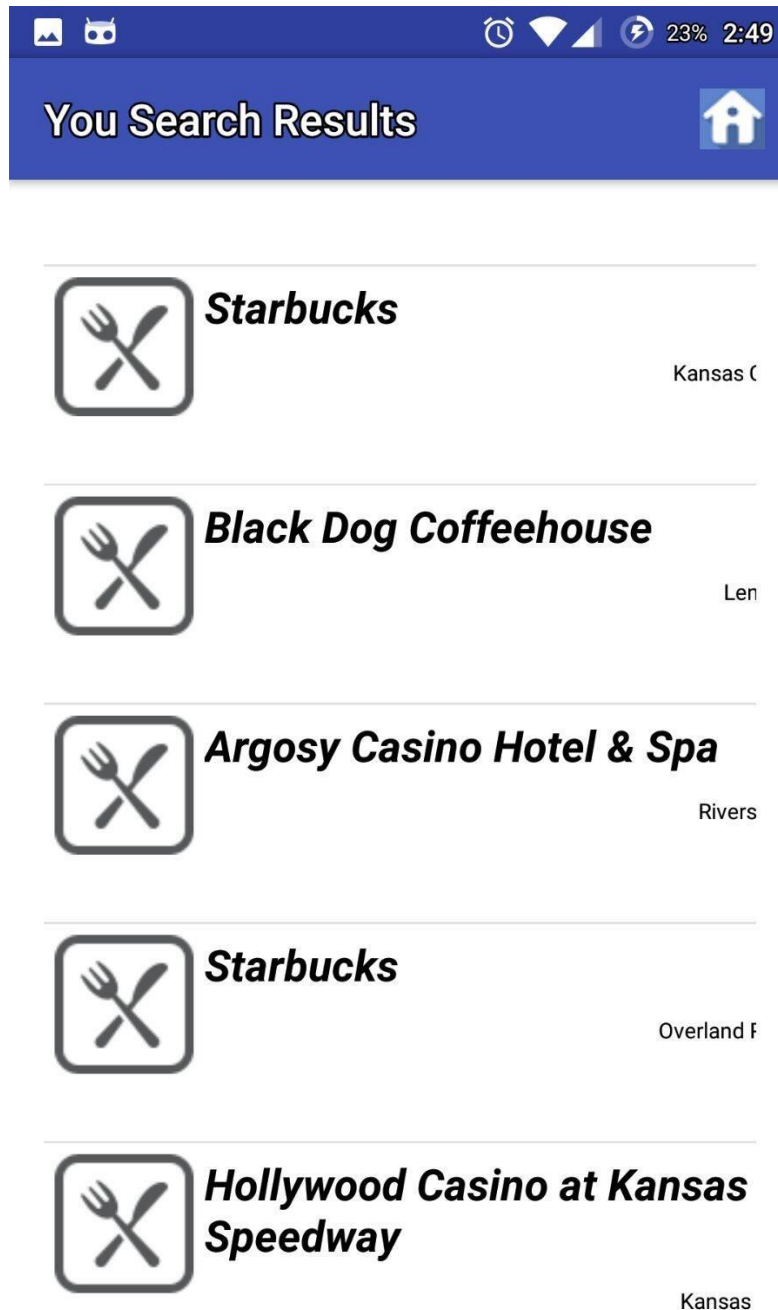
2.5 Home Page of the Application:

Home page which describes the features of the application will be displayed after successful login of the user. This page consists of Food, Events, Places, Travel and Transport and My Schedule by clicking on these icons respective results will get displayed.



2.6 Retrieving Food Results from Four Square API:


By Clicking on Food Icon on the Home page, the following are the results, will be displayed according to the Geo-Location of the User.





2.7 Retrieving Events Results from Four Square API:


By Clicking on Events Icon on the Home page, the following are the results, will be displayed according to the Geo-Location of the User.


You Search Results


 **Salsa @ The Chesterfield Club**
Kansas City, MO

 **GameOn**
North Kansas City, MO

 **Fontainebleau Clubhouse**
Overland Park, KS

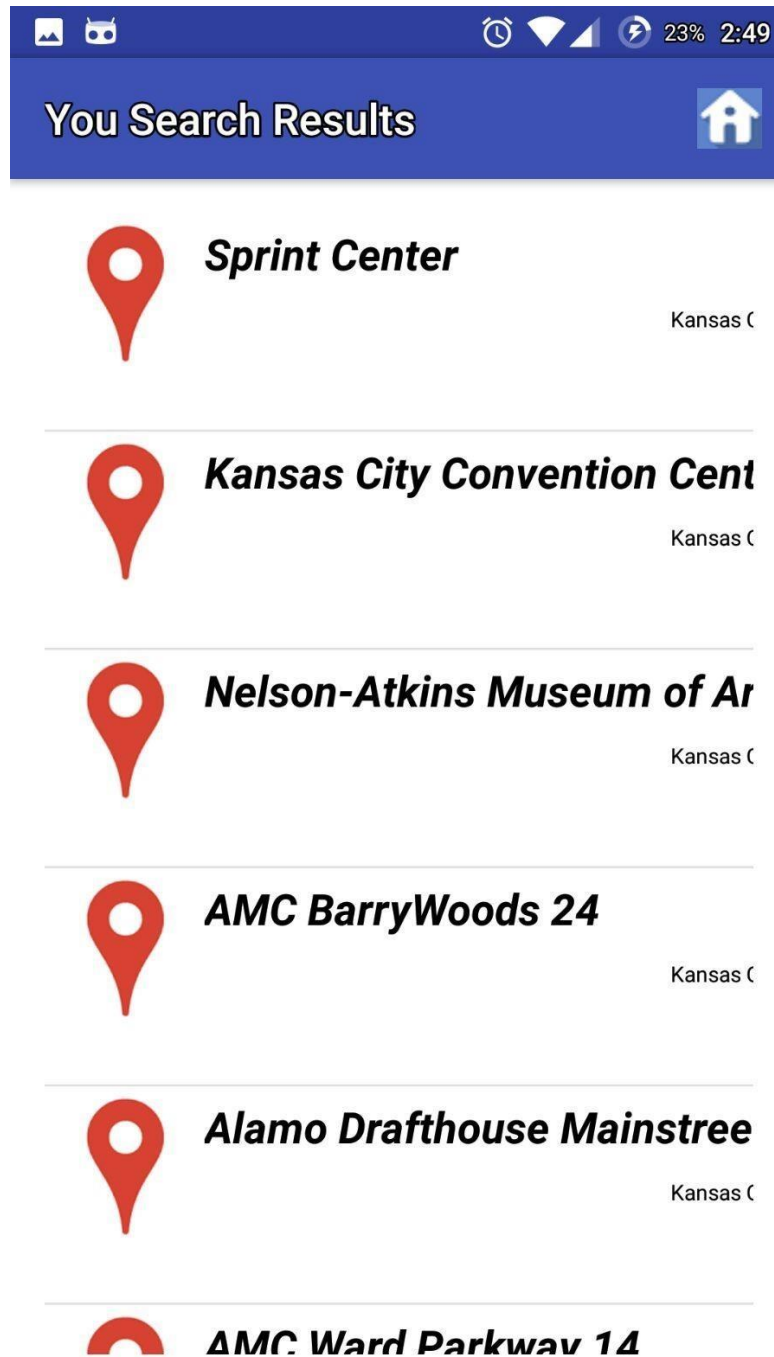
 **The SPOTT Lifestyle and Swingers Club of Kansas City**
Kansas City, MO

 **First Friday Film Festival - 4F**
Kansas City, MO

 **2016 Main Event Space**

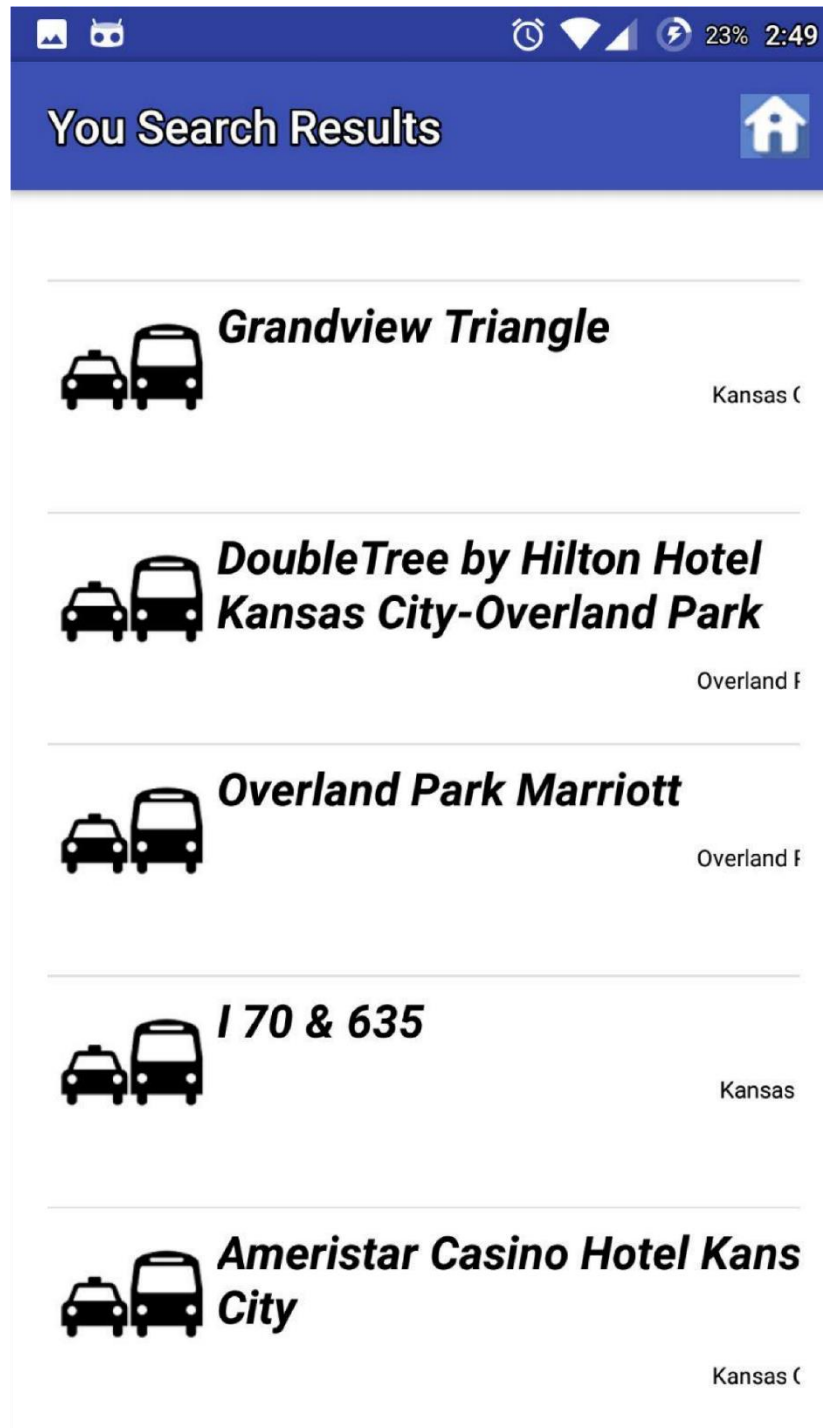
2.8 Retrieving Places Results from Four Square API:

By Clicking on Places Icon on the Home page, the following are the results, will be displayed according to the Geo-Location of the User.



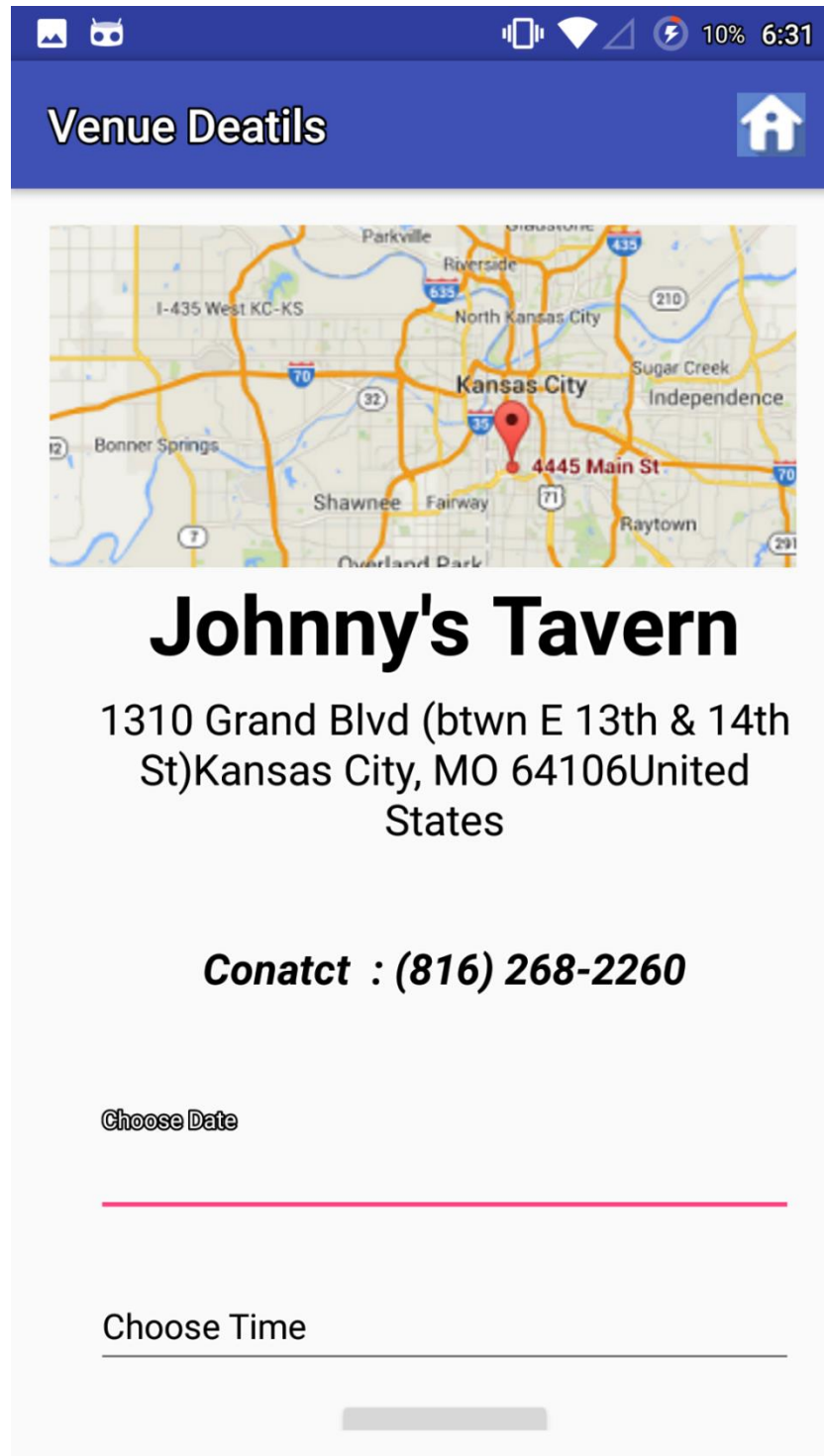
2.9 Retrieving Travel & Transport Results from Four Square API:

By Clicking on Travel & Transport Icon on the Home page, the following are the results, will be displayed according to the Geo-Location of the User.



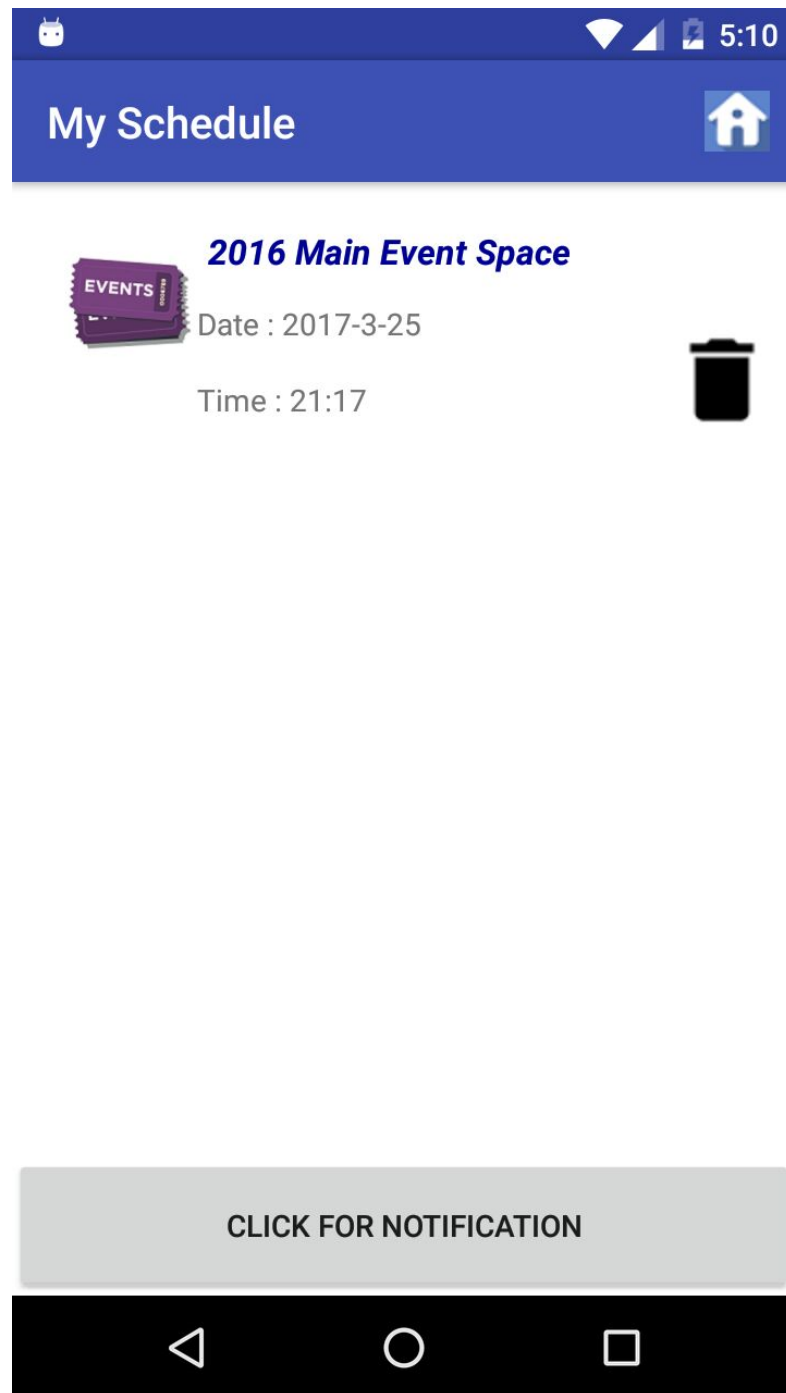
2.10 Retrieving Location from G-Maps API:

By clicking on an event, place, or restaurant it's address, and location on map along with the option of scheduling the event as task is displayed.



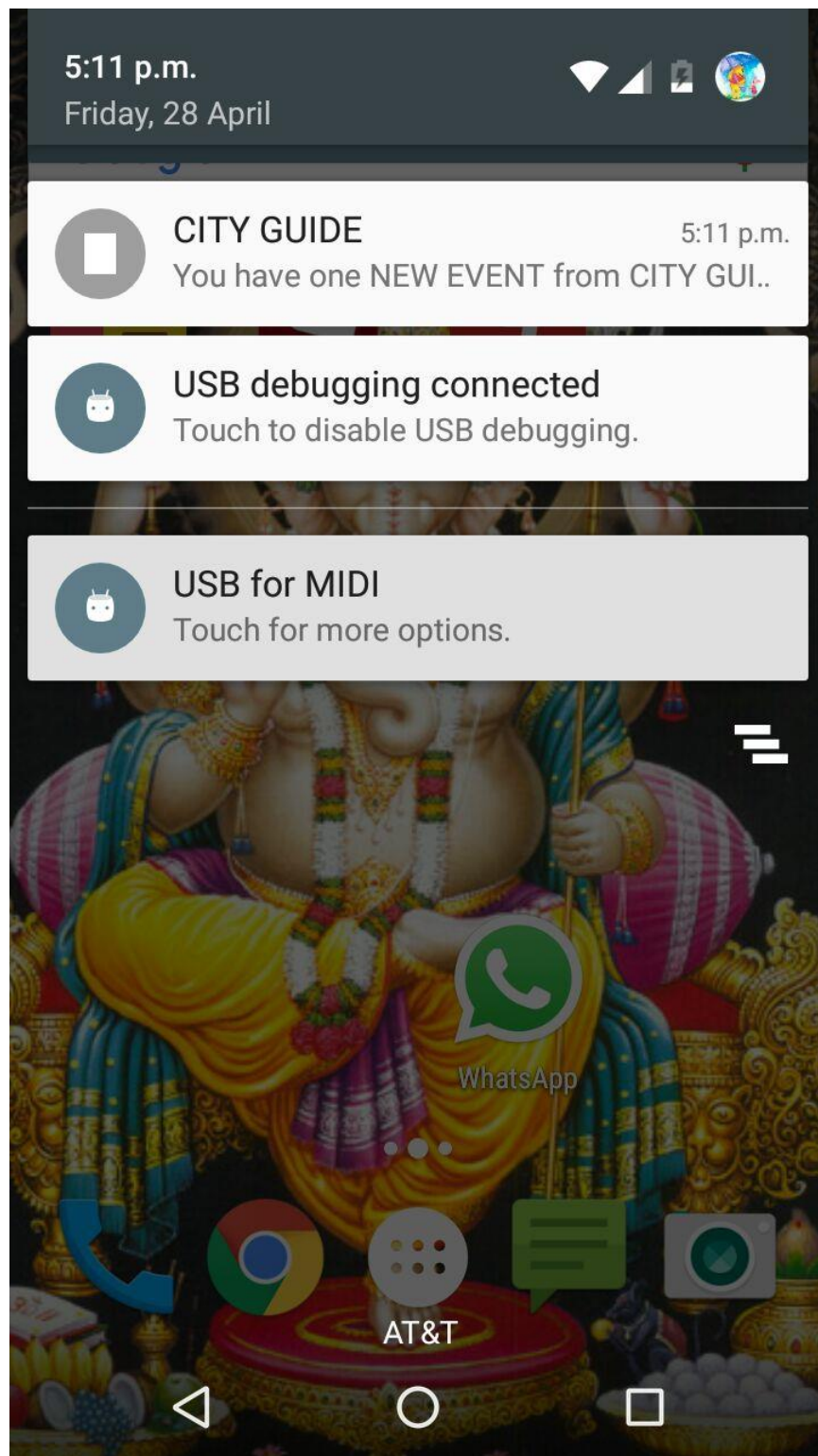
2.11 Scheduling a Visit:

- Choose date and time attributes, present on the results page, where the user can choose date and time to schedule his event.
- These events can be viewed later, by clicking on my schedule icon, where a button for notification is placed and by clicking on that the user can get the notifications for the added events.



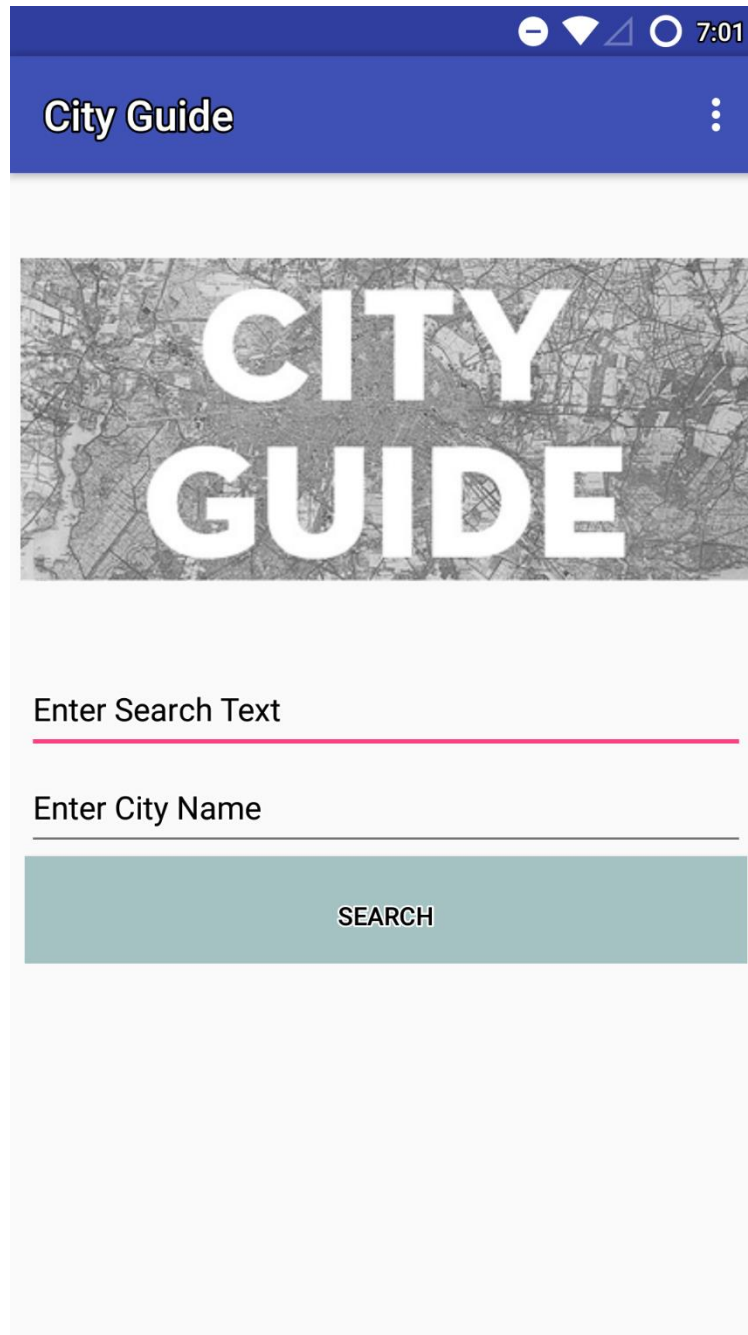
2.12 Notification Bar:

By Clicking on “Click for Notifications” The user will get Notifications based on the time he used.



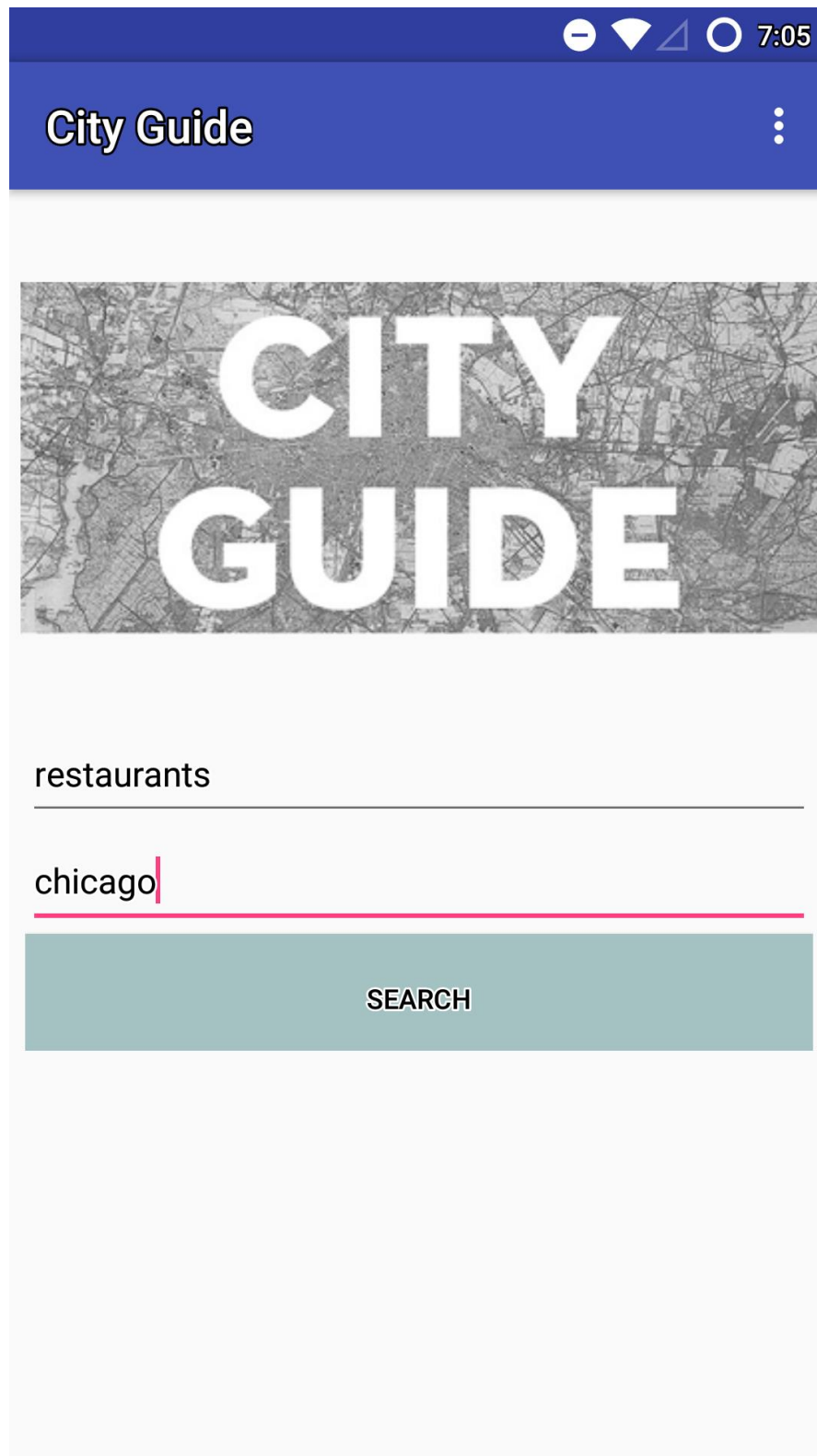
2.13 Searching Depending on Location Opted by the User:

If the User wants to search in other places other than geolocation he can do through the following page, which will get displayed by clicking on Trends Icon.



The screenshot displays the 'City Guide' application interface. At the top, a dark blue header bar contains the text 'City Guide' on the left and a three-dot menu icon on the right. Below the header, a large banner image shows a city map with the words 'CITY GUIDE' in large, white, bold, sans-serif capital letters. Underneath the banner, there are two text input fields. The first field is labeled 'Enter Search Text' and has a pink underline. The second field is labeled 'Enter City Name' and has a grey underline. Below these fields is a teal-colored rectangular button with the word 'SEARCH' in white, bold, sans-serif capital letters. The entire app interface is set against a light grey background.

- The user can enter his search attribute and the city he wants to visit, for which results are shown below



The screenshot displays the 'City Guide' application interface. At the top, a dark blue header bar contains the app title 'City Guide' on the left and a vertical ellipsis menu icon on the right. Below the header is a large banner image featuring a grayscale map of a city with the words 'CITY GUIDE' overlaid in large, bold, white capital letters. Underneath the banner, there are two text input fields. The first field contains the word 'restaurants' and is followed by a horizontal line. The second field contains the word 'chicago' and is followed by a horizontal line. Below these input fields is a wide, teal-colored button with the word 'SEARCH' in white capital letters.



Phoenix Restaurant



Triple Crown Restaurant



Hing Kee Restaurant



Coyotes Restaurant



Lao Sze Chuan Restaurant

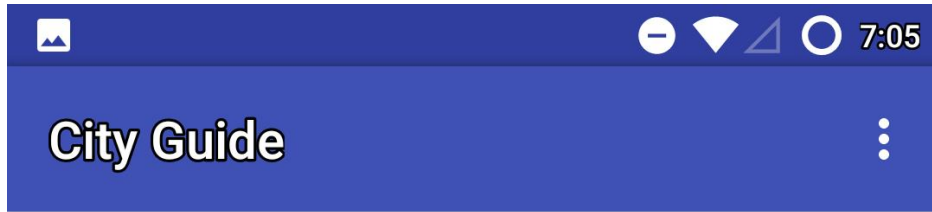



Athena Greek Restaurant



The Berghoff Restaurant

.....





restaurant

newyork

SEARCH

19 | Page



7:05



Search Results



Restaurant



Inver Restaurant



Ee-Usk



The China restaurant



***Waterfront Bar &
Restaurant***



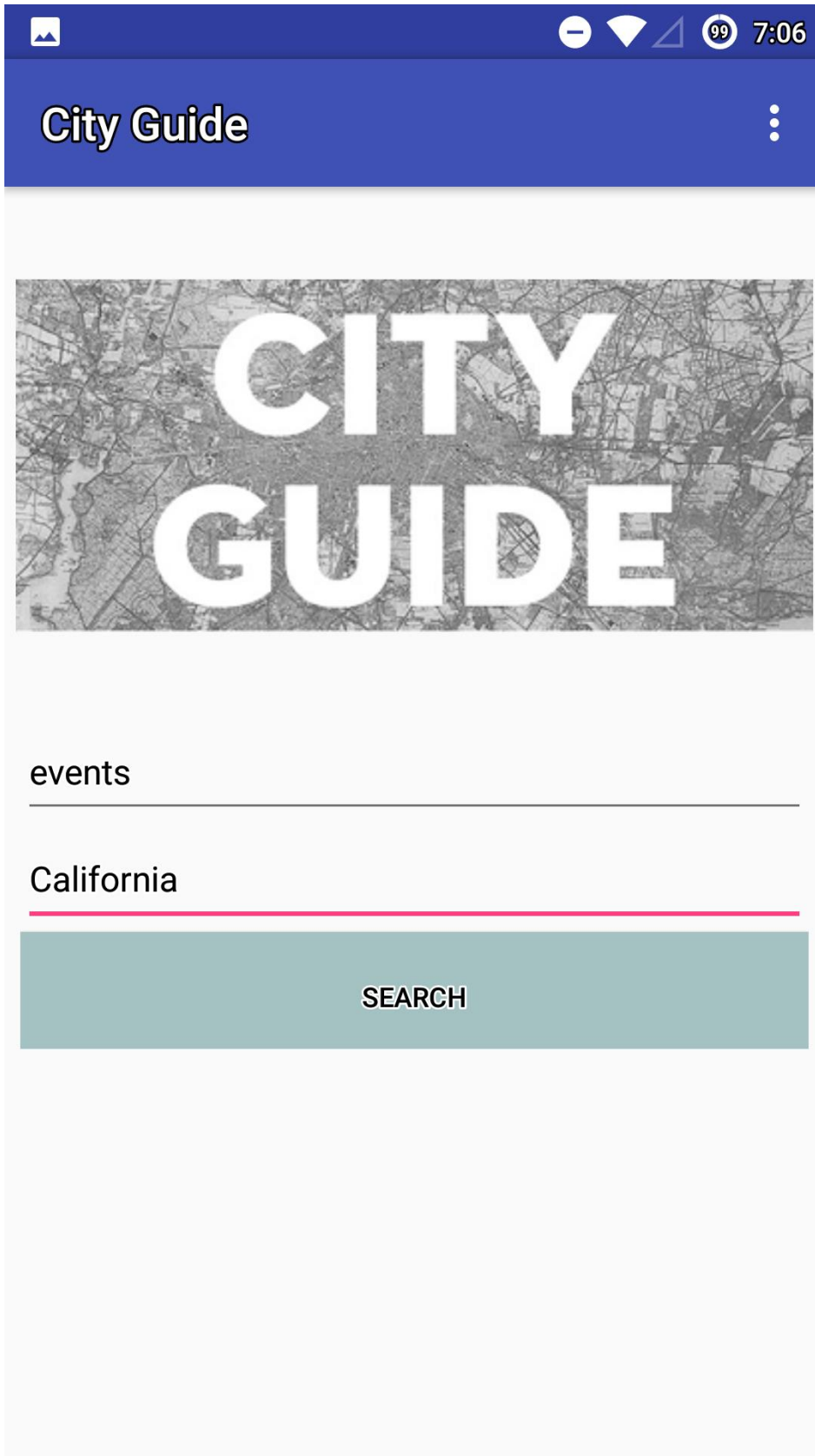
***The Rannachan
Restaurant***



***Waterfront Fish
Restaurant***



Seafood Temple





7:06



Search Results



My Red Carpet Events



Genesis Master of Events



capture life events



Genesis Master of Events



Eclectic Affairs Event Services

2.14 Storing Data in M-Lab:

MongoDB Deployments

Create from backupCreate new

Development and UtilitySingle-node deployments intended for environments that do not require high availability.

NAME	PLAN	RAM	SIZE	SIZE ON DISK
ds055594/krishna	Sandbox	shared	8.47 KB	16.00 MB

Database: krishna

Delete database

To connect using the mongo shell:
% mongo ds055594.mlab.com:55594/krishna -u <dbuser> -p <dbpassword>

To connect using a driver via the standard MongoDB URI ([what's this?](#)):
`mongodb://<dbuser>:<dbpassword>@ds055594.mlab.com:55594/krishna`

mongod version: 3.2.11 (MMAPv1)

⚠ Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our [guide to running in production](#) for more info.

CollectionsUsersStatsBackupsTools

Collections

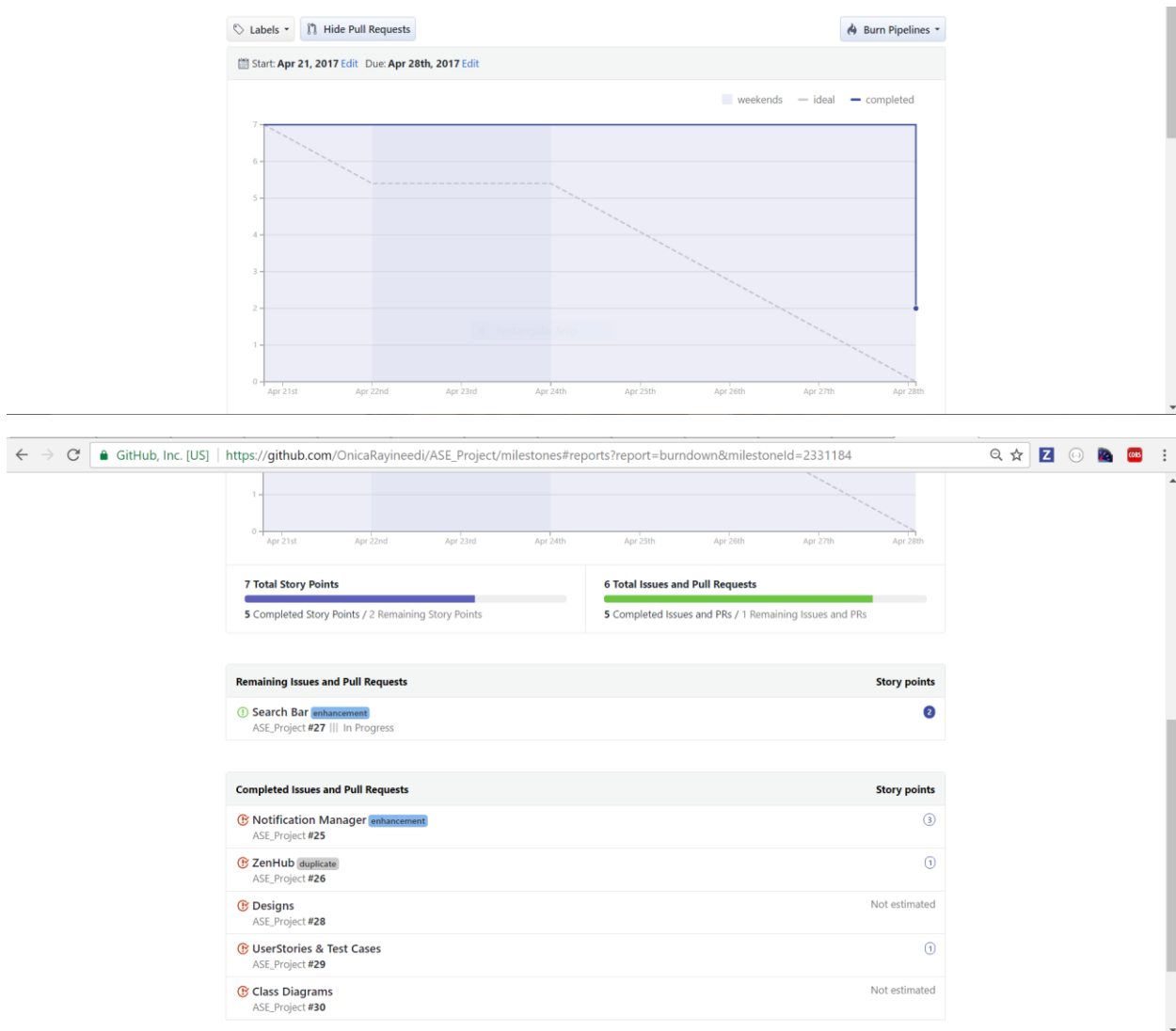
Delete all collectionsAdd collection

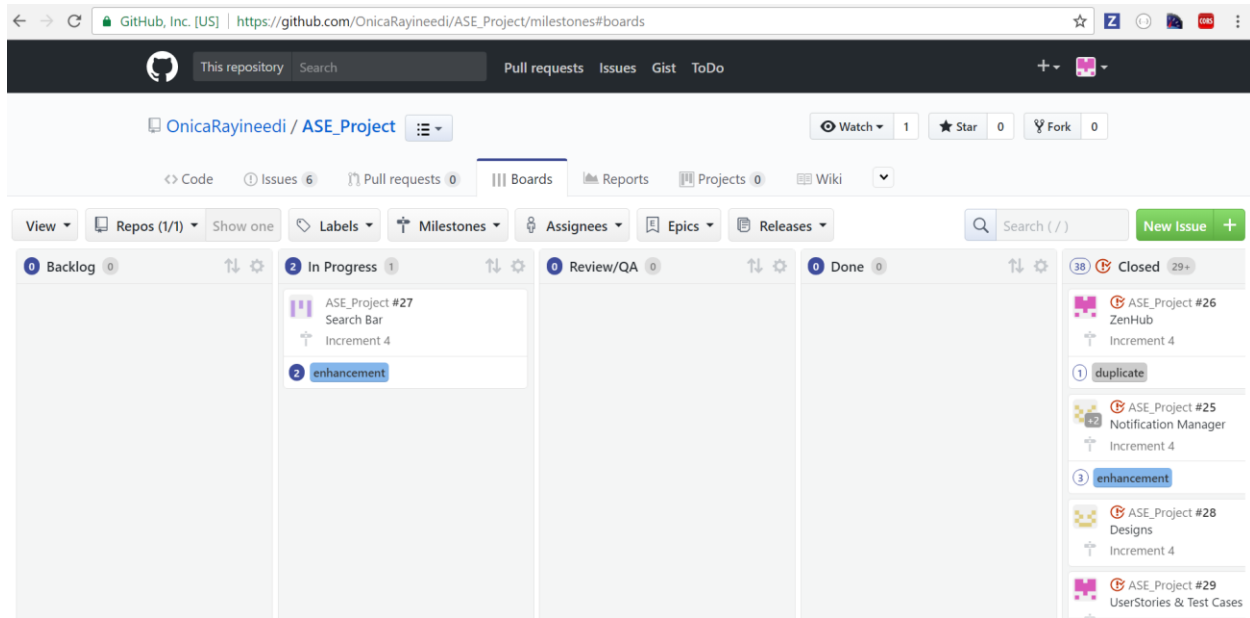
NAME	DOCUMENTS	CAPPED?	SIZE
krishna	1	false	8.22 KB

23 | Page

2.15 Project Management:

Burndown Charts:





2.16 Final Project Evaluation:

When we proposed this project, our main aim of the project is to develop an android application which allows user to get entire information about the place he or she wants to visit. As, passing through each increment we implemented all major features of the application which we thought about such as getting the tourist places, restaurants, travel & transport, and events of the place the user wants to visit or the place the user is in. Also, thought of implementing Google-360 degrees view of the place the user wants to visit but, google-360-degree view is available only for very few places this restricted us to implement this feature. This Project is implemented using Agile process model which made us to implement and enhance the project at each stage.

3. Project Proposal

Objective:

It enables people to know about places and areas instantly that they are not familiar with and provide them with the reviews of past and an ability to share their experiences.

System Features:

- Depending on the User Location, Tourist Attractions in a place can be displayed
- Entire information such as distance from current location, history, significance, images, and reviews etc. of a place can be viewed
- Associated with various applications which allows to view and book different amenities which are necessary to accomplish the trip
- User can view and record the reviews about the visited place

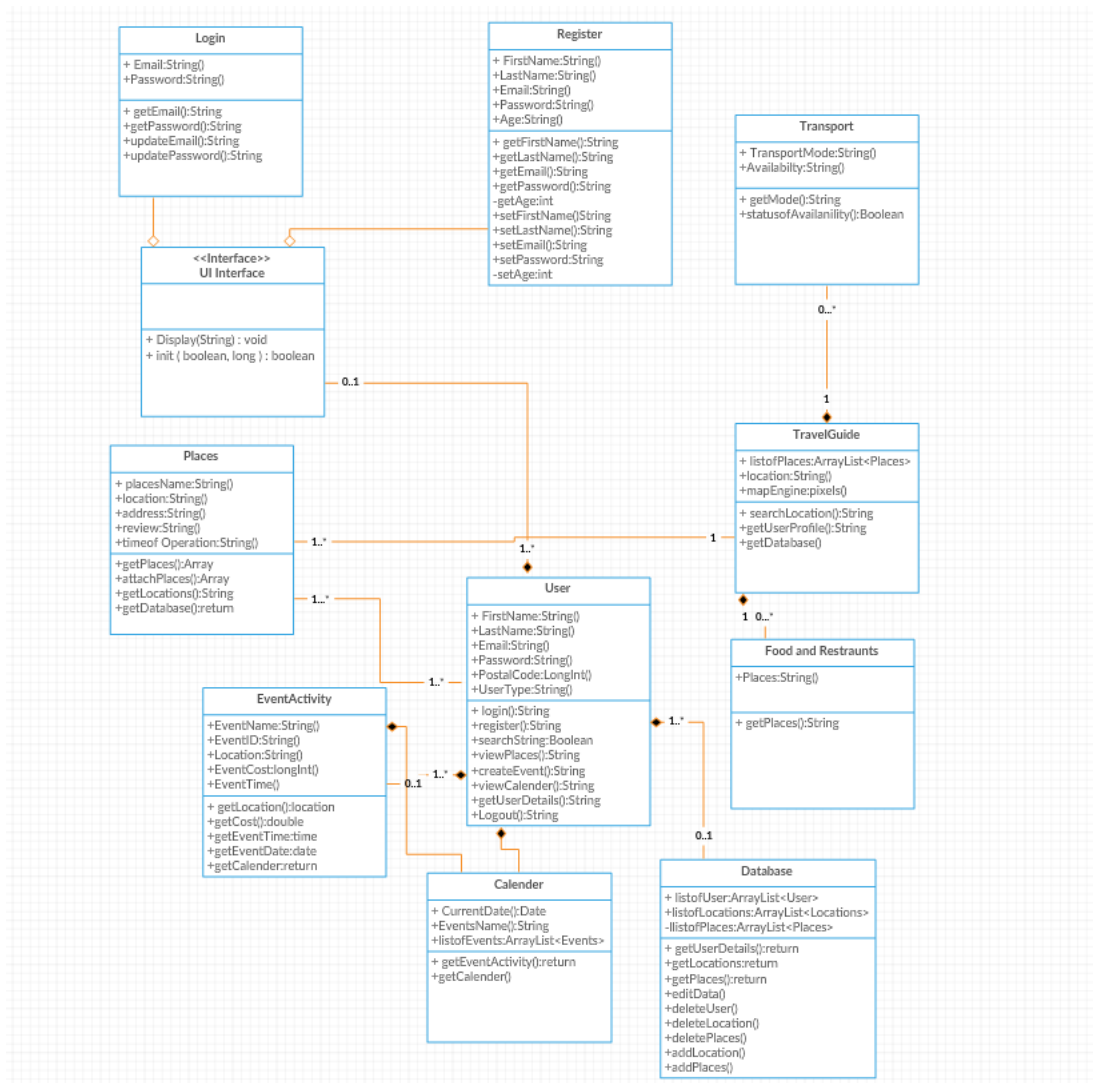
Significance or Uniqueness:

- The information in the application can be shared among tourists instantly and analyzed by the shared ones.
- The main disadvantage of insufficient information of the resources, untapped opportunities for tourism companies and the enhancement of the travel experience is overcome by providing meaningful insight for the trips.
- It provides connectivity to many smart applications for travelers.
- It provides Google's information and resource source for marketers.
- It aims to resolve the tourism industry's problem of lacking profitable products and services, which adds value to travelers' experience during their trip by recognizing their prominent needs and new technological developments that will affect the on-site travel experience.

4. Project Plan

4.1 Class Diagram:

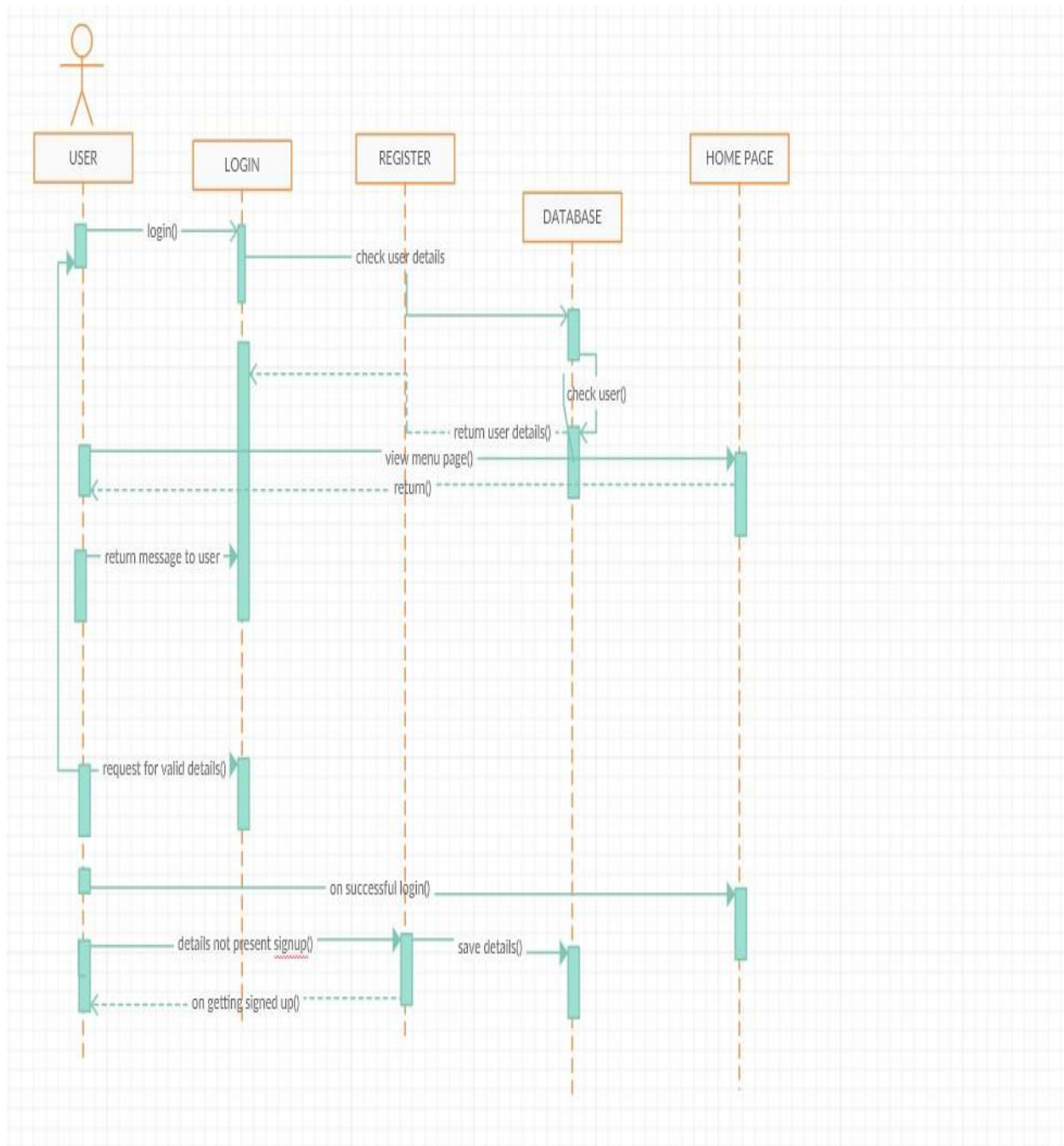
This diagram depicts the static structure of the Application using Classes and their Attributes.



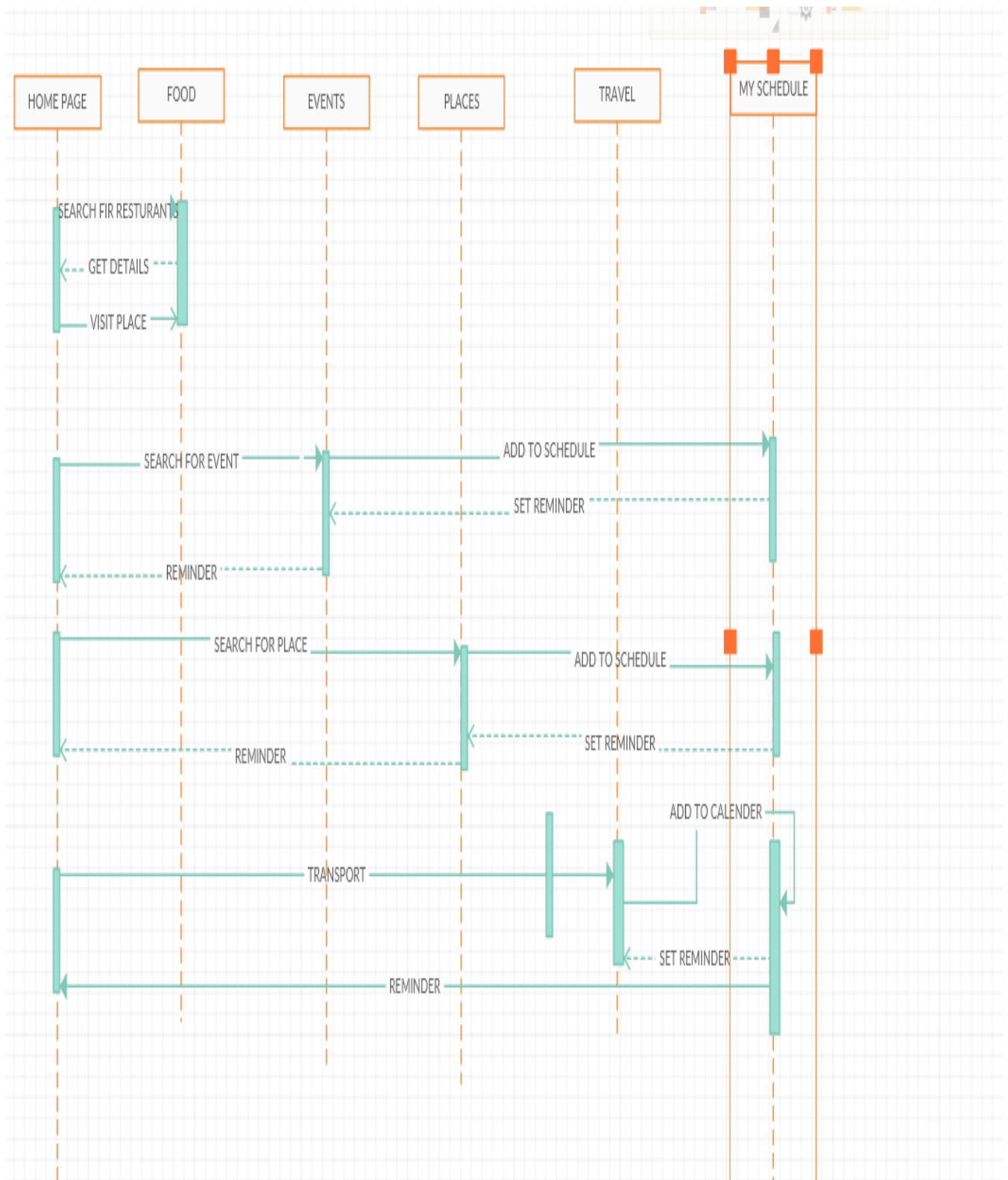
4.2 Sequence Diagram:

This Sequence Diagram depicts the interaction mechanism of the objects implemented in the system application.

“Sequence Diagram for Login and registration:”

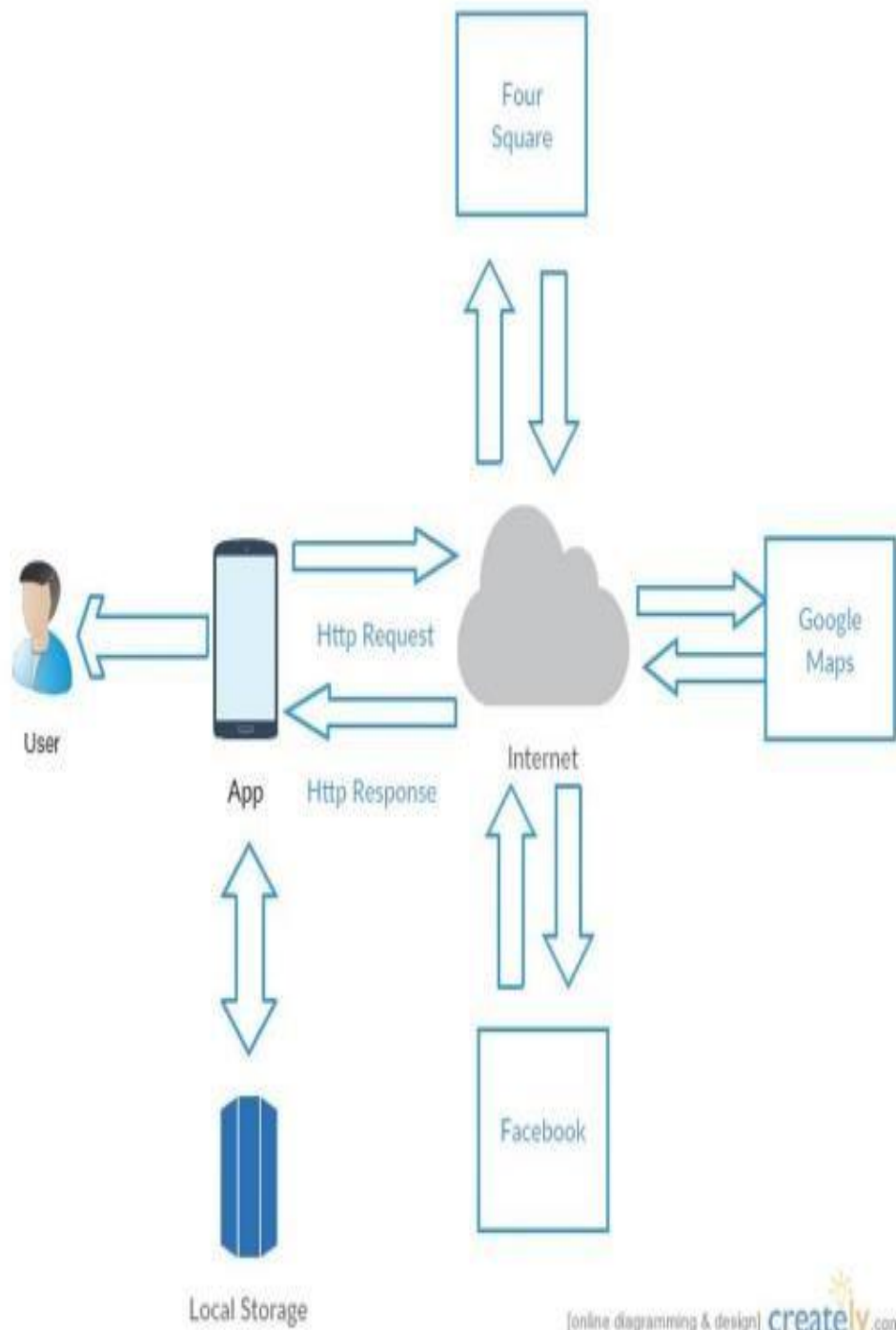


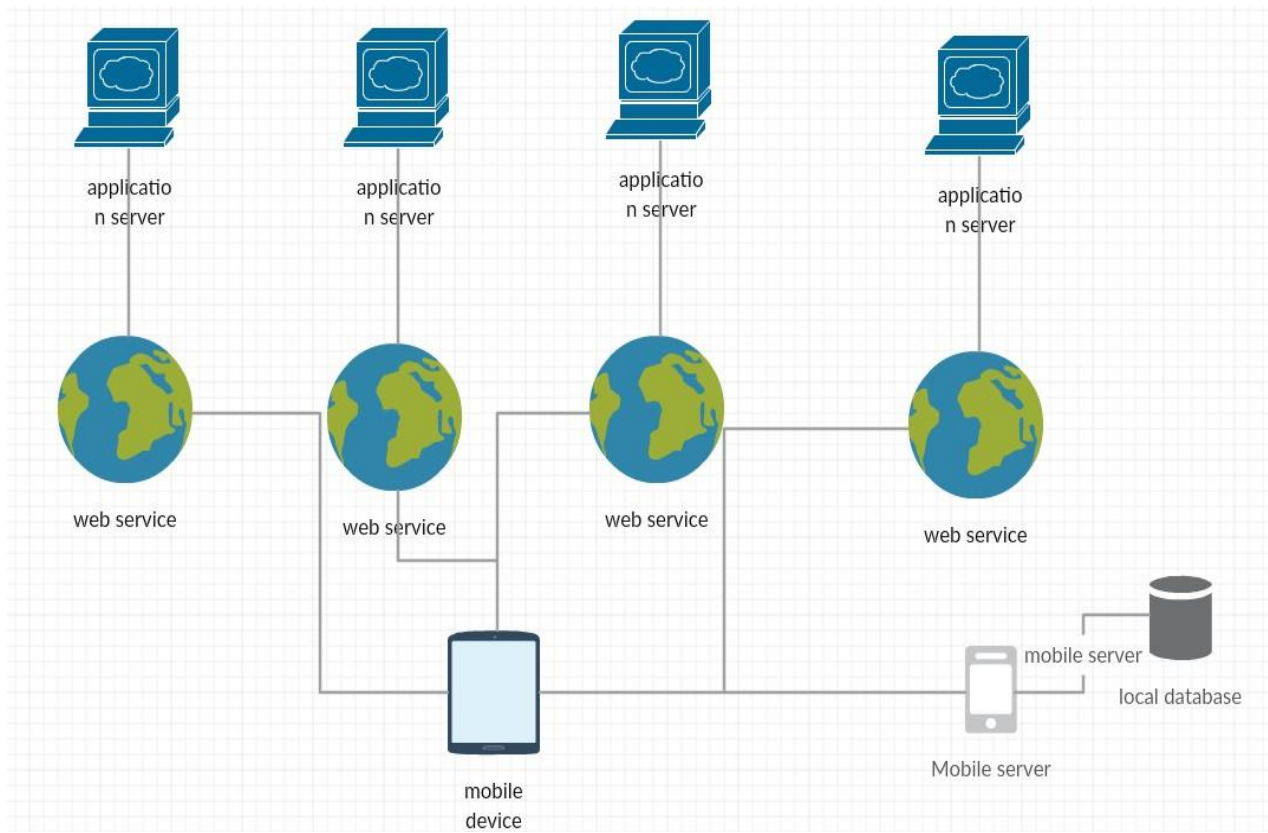
“Sequence Diagram for Home Page:”



4.3 Software Architecture:

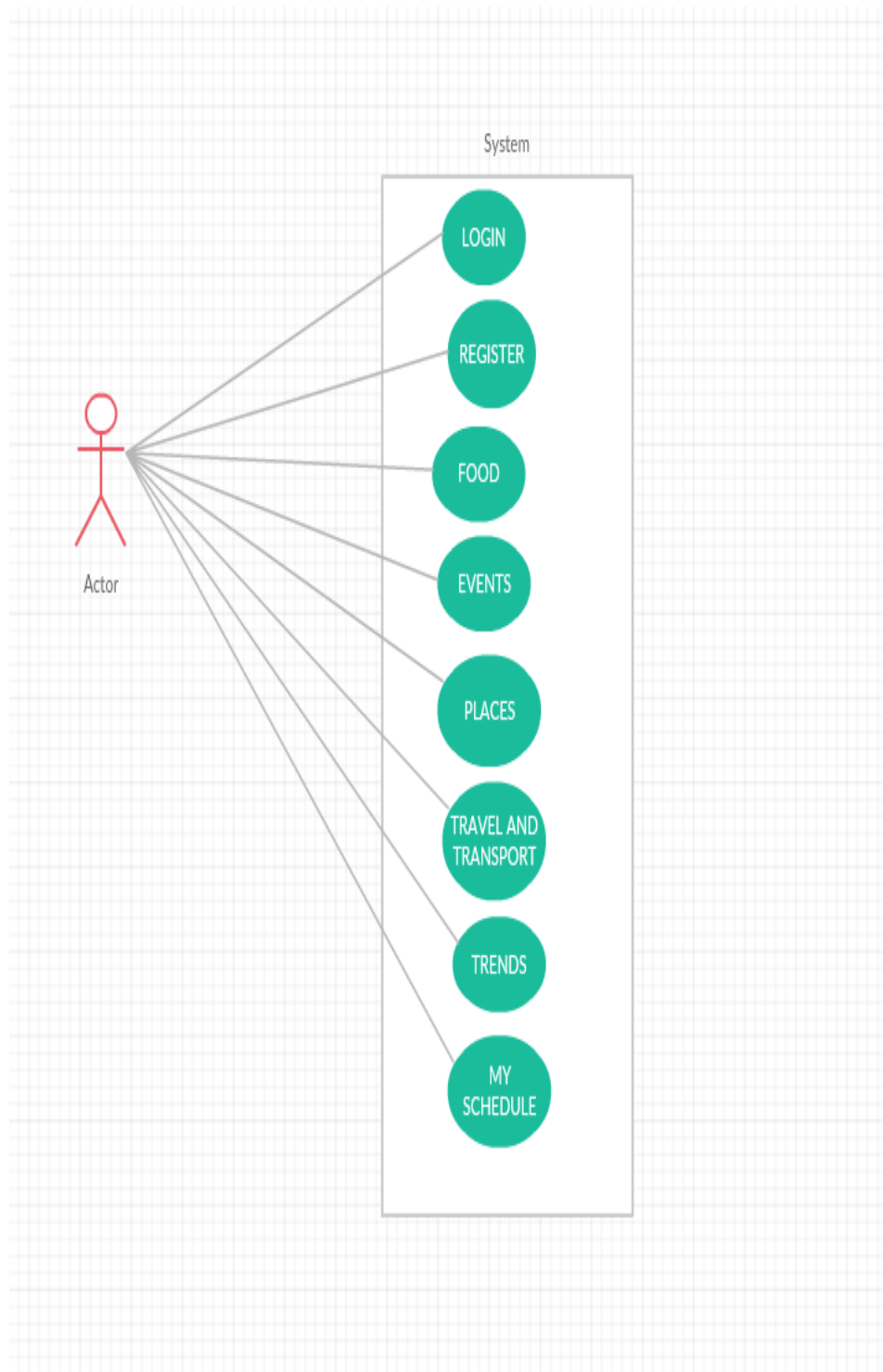
Structure and Behavior of the application is described in the system architecture.





4.4 Use Case Diagram:

Use case diagram represents the interaction of user with the application



4.5 User Stories:

As a	I want to	So, that
User	Search for the tourist places and events based on my location	I can visit that place as a tourist
	Get the various Tourist Attractions located in that location	I can visit all the Tourist Attractions located in that place
	Get Directions and navigation to the Tourist place selected	I do not have any problem in finding the location of the selected place
	Get all the information such as contact number, Locations, images, video's (if present) and reviews	I can gain more knowledge about that place
	Get all the details about different locations based on user choice	I do not face any problem by visiting that place
	To schedule events and update calendar	I can view the dates and events planned on that days (such as visiting a place)
	To get the Notifications about scheduled events	I can review the added events

4.6 Unit Testing:

Case	Test Case Description	Expected Result	Actual Result
Events Search	On searching the location	Display the nearby events	PASS
Places Search	On searching the Location	Display the nearby visiting spots	PASS
Get Directions	On clicking on a location	Display G-Maps linked with the location along with the address and Contact Info	PASS
Travel & Transport	On searching the Location	Display places to live and transportation facilities	PASS
Food	On searching the Location	Display nearby restaurants	PASS
Locations Search	On Entering the Location and attribute user wants to search	Display the search results of the Location entered	PASS
Receive Notifications	On Scheduling Events	Receive Notifications on Scheduling Events	PASS

5. Project First Increment

Implementation:

Technologies used:

Android Studio, M-lab

Work Completed:

- Designed Architecture of the application
- Designed Login and registration pages
- Collected related information which will be used for further implementation of the Application

First Increment Report:

https://github.com/OnicaRayineedi/ASE_Project/wiki/Project-Proposal-1

6. Project Second Increment

Implementation:

Technologies used: Android Studio, M-lab

Work Completed:

- Designed Architecture of the application
- Designed Login and registration pages
- Collected related information which will be used for further implementation of the Application
- Designing home page
- Database implementations

Second Increment Report:

https://github.com/OnicaRayineedi/ASE_Project/blob/master/Project%20Second%20Increment/Documentation/Project%20Increment%202.pdf

7. Project Third Increment

Implementation:

Technologies used: Android Studio, M-lab

Work Completed:

- Designed Architecture of the application
- Designed Login and registration pages
- Collected related information which will be used for further implementation of the Application
- Designing home page
- Database implementations

Third Increment Report:

https://github.com/OnicaRayineedi/ASE_Project/wiki/Project-Third-Increment

8. Project Fourth Increment

Implementation:

Technologies and Platforms used:

- HTML 5
- CSS 3
- JavaScript
- MongoDB
- Android Studio

Work Completed:

- Designed Architecture of the application
- Designed Login and registration pages
- Collected related information which will be used for further implementation of the Application
- Designing home page
- Database implementations

Fourth Project Report:

https://github.com/OnicaRayineedi/ASE_Project/blob/master/Project%20Fourth%20Increment/Documentation/Project%20Plan%20and%20Fourth%20Increment.pdf

GitHub wiki page URL:

https://github.com/OnicaRayineedi/ASE_Project/wiki/Project-Final-Report

YouTube URL:

<https://www.youtube.com/watch?v=SsT5lrH0HMM&feature=youtu.be>

9. Project Management

Implementation:

Technologies and Platforms used:

- HTML 5
- CSS 3
- JavaScript
- MongoDB
- Android Studio

Work Completed:

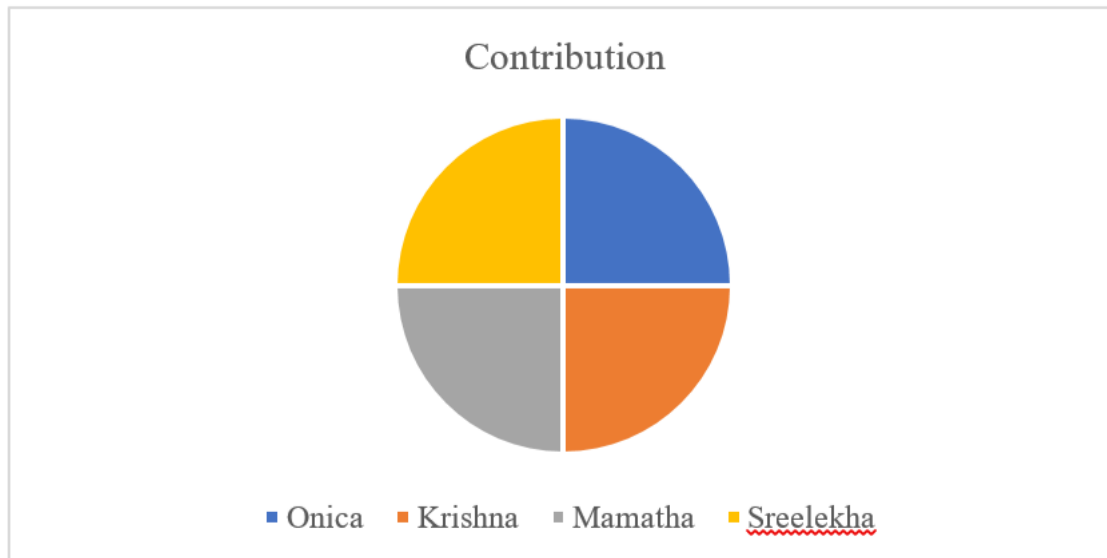
- Designed Architecture of the application
- Designed Login and registration pages using MongoDB
- Designing home page
- Implemented on G-Maps API
- Implemented on Four Square API
- Implemented Scheduling Task
- Implemented Notification Task
- Improving the user interface of the Application
- Database implementations

Responsibility and Tasks Accomplished:

<u>Venkata Krishna Podili</u>	<u>Onica Sai Prasanna Lakshmi Rayineedi</u>	<u>Mamatha Yadav Chekuti</u>	<u>Sreelekha Reddy Kommareddy</u>
Four Square API to retrieve food and events information	Four Square API to retrieve places and Transport Information	Google Maps API to retrieve the Location Information	Google Maps API to retrieve the Location Information
Search Bar Implementation	Scheduling a visit to a Location	Scheduling a visit to a Location	Wireframes Designing
UI Implementations	Enabling Notifications	UI Implementations	Enabling Notifications
M-Lab Storing	User Stories and Test Cases	Class Diagrams Designing	Facebook Login

Contribution:

1. Onica Sai Prasanna Lakshmi, Rayineedi – 25%
2. Venkata Krishna, Podili– 25%
3. Mamatha Yadav, Chekuti– 25%
4. Sreelekha Reddy Kommareddy-25%



Future Scope:

For future implementation for this application would be a feature to write and read the reviews to the restaurants the user planning to visit and to provide any on call service enabling them to clear queries if any.

Bibliography:

- o <https://creatly.com/>
- o <https://stackoverflow.com>
- o <https://www.raywenderlich.com/109843/common-design-patterns-for-android>