



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 people keep travelling to different places, there is always a limitation of information about the place they 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. The tourists will be able to 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 Visited Location of the user.

“2. Project Goal and Objectives(revised)”

“2.1 Overall Goal:”

The Main Objective of this Application is to create a user-friendly Android based Application which enables users to know about places and areas instantly that they are not familiar with and provide them with the proper information about Places, Events, Restaurants, and Transport Facilities available in that location.

“2.2 Specific Objectives (Problem Statement):”

- Depending on the User Location, Tourist Attractions in a place can be displayed
- Entire information such as Location, address etc. of a place can be viewed
- User can schedule his visit to a place, event, or restaurant
- User will get notifications for the scheduled events

“2.3 Specific features:”

2.3.1 This Application enables the user to retrieve the information such as places to visit, Food & restaurant availability, Events occurring, Transport facility available in that place.

2.3.2 After Tourist Attractions got displayed, the user can select a place from the list of attractions after which entire details such as location, contact information, and address along with select date and time attributes will get displayed

2.3.3 This is associated with My Schedule which allows to view his upcoming or current schedules

2.3.4 The user can get the notifications regarding the scheduled events

“2.4 Significance:”

- 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.

“3. Project Plan”

“1. Zen-Hub Screenshots:”

In this fourth increment, we created four Milestones that is., for Increment-1, Increment-2, Increment-3, Increment-4. Under Increment-4 we have issues regarding Zen-Hub, User Stories and test Cases, Notification manager, Search, UML diagrams and Designs

“Mile-Stones Created:”

The screenshot shows the GitHub interface for the repository 'OnicaRayineedi / ASE_Project'. The 'Milestones' tab is selected. There are three milestones listed:

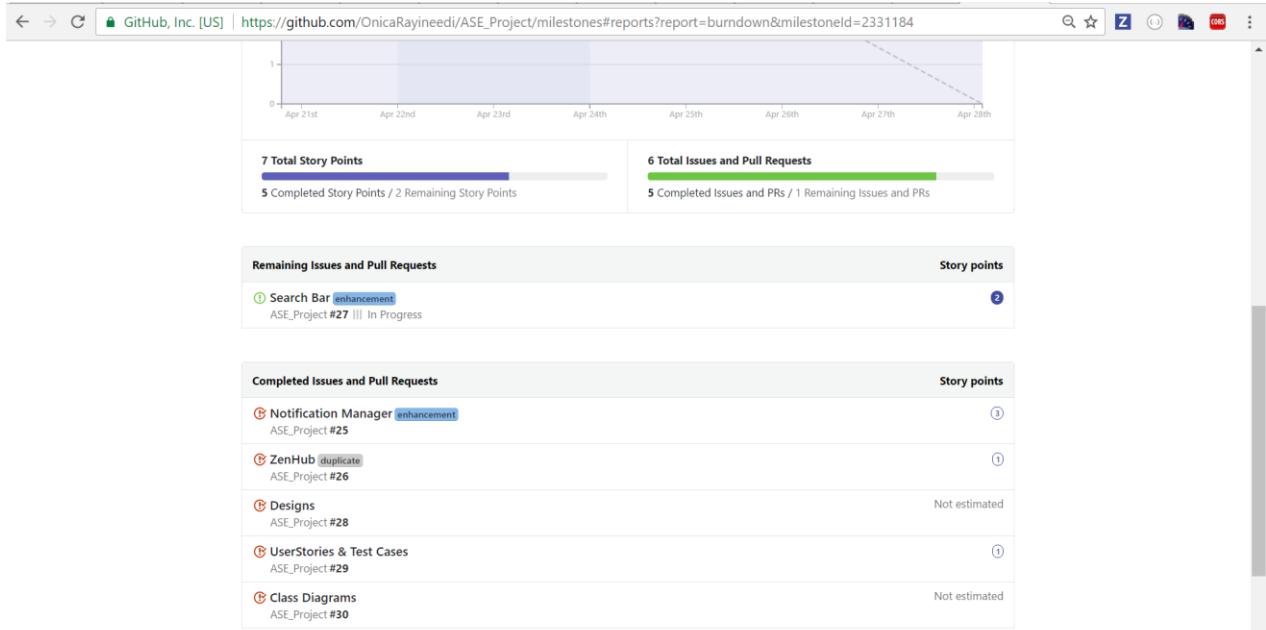
- Increment 4**: Due by April 28, 2017. Last updated less than a minute ago. Progress: 0% complete (6 open, 0 closed). Actions: Edit, Close, Delete.
- Increment 3**: Past due by 19 days. Last updated 18 days ago. Progress: 100% complete (0 open, 7 closed). Actions: Edit, Close, Delete.
- Increment 2**: Past due by about 1 month. Last updated about 1 month ago. Progress: 100% complete (0 open, 10 closed). Actions: Edit, Close, Delete.

“Issues Created:”

The screenshot shows a GitHub repository named "OnicaRayineedi / ASE_Project". The boards tab is selected, displaying five columns: Backlog, In Progress, Review/QA, Done, and Closed. The In Progress column contains one item: "ASE_Project #27 Search Bar Increment 4", which is assigned to "enhancement". The Done column contains two items: "ASE_Project #26 ZenHub Increment 4" and "ASE_Project #25 Notification Manager Increment 4", both assigned to "enhancement". The Closed column contains four items: "ASE_Project #29 duplicate", "ASE_Project #28 Designs Increment 4", "ASE_Project #27 enhancement", and "ASE_Project #29 UserStories & Test Cases".

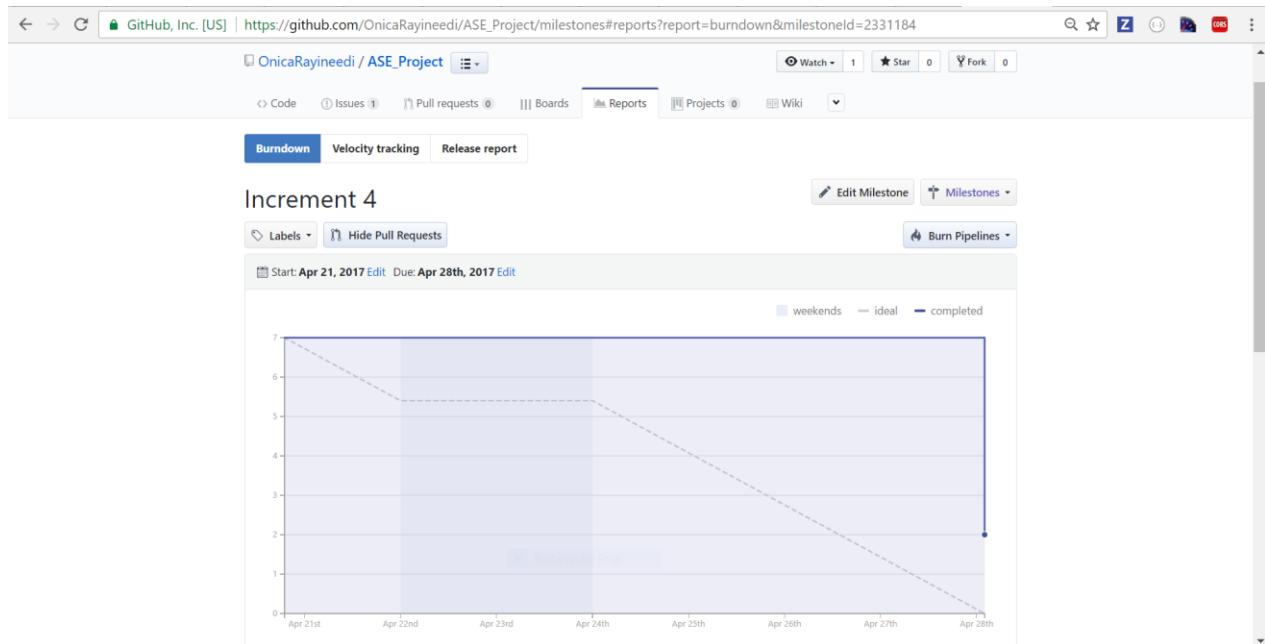
“2. Project Timeline, Members, and Task Responsibility:”

For this Increment, there are seven issues created and below screenshots describe how tasks been assigned to the team members



“3. Burn-Down chart:”

This Burn-Down chart is generated for Increment-4 which the above designed issues created



“4. Fourth Increment Report”

“4.1 Existing Services/REST API:”

- Facebook API
- Foursquare API
- M-Lab
- Google-Maps

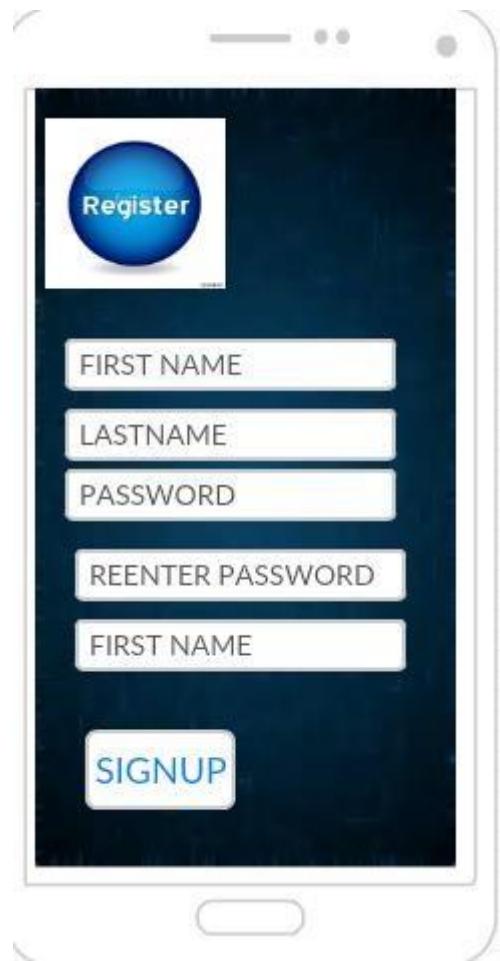
“4.2 Detail Design of Features:”

“4.2.1. Wireframes:”

- **“Login Page:”** A Login Page is created with Email ID and Password as attributes.



- **“Registration Page:”** A Registration Page is created with First Name, Last Name, Password, username

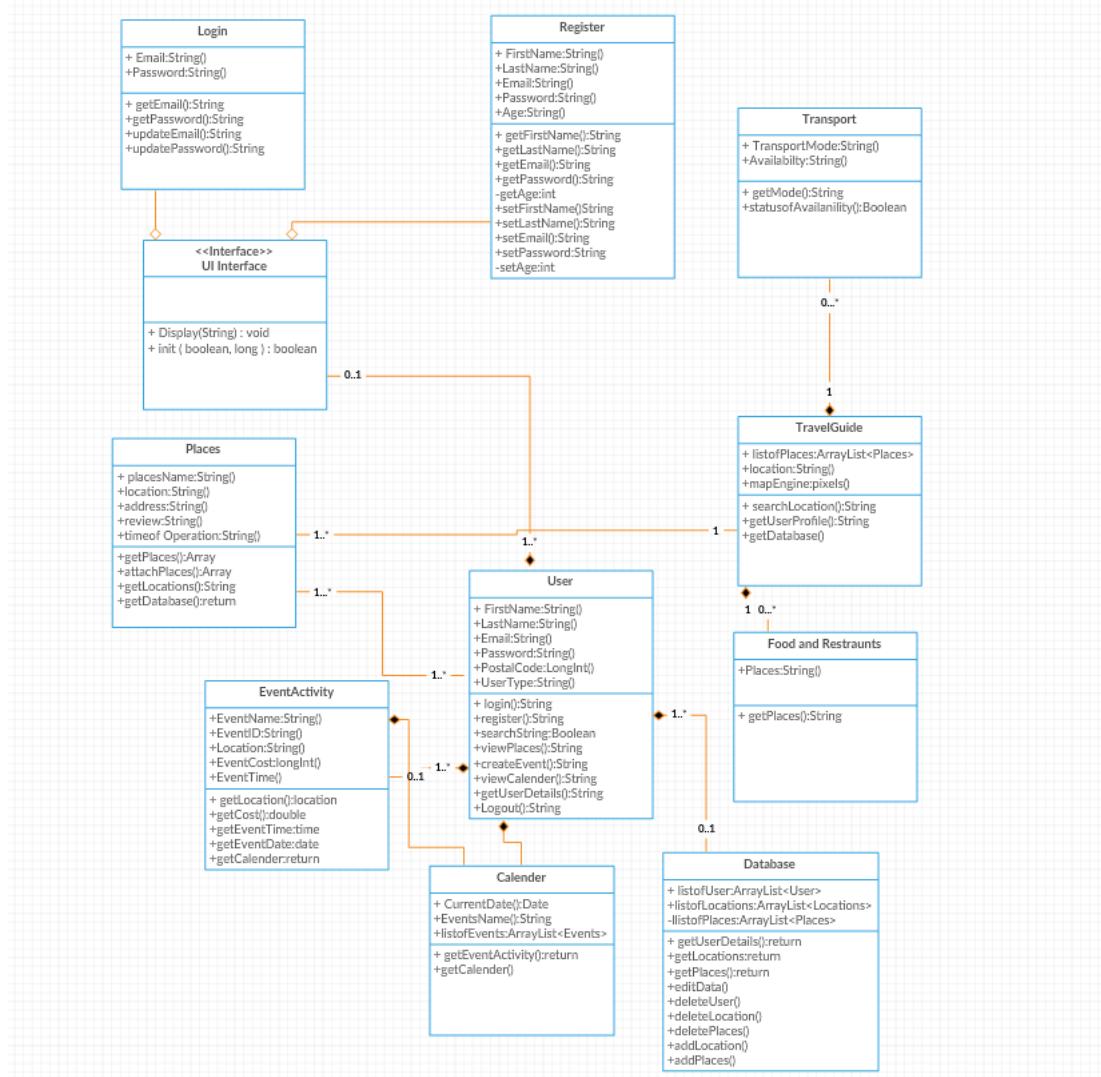


HOME SCREEN



4.2.2 Class Diagram:

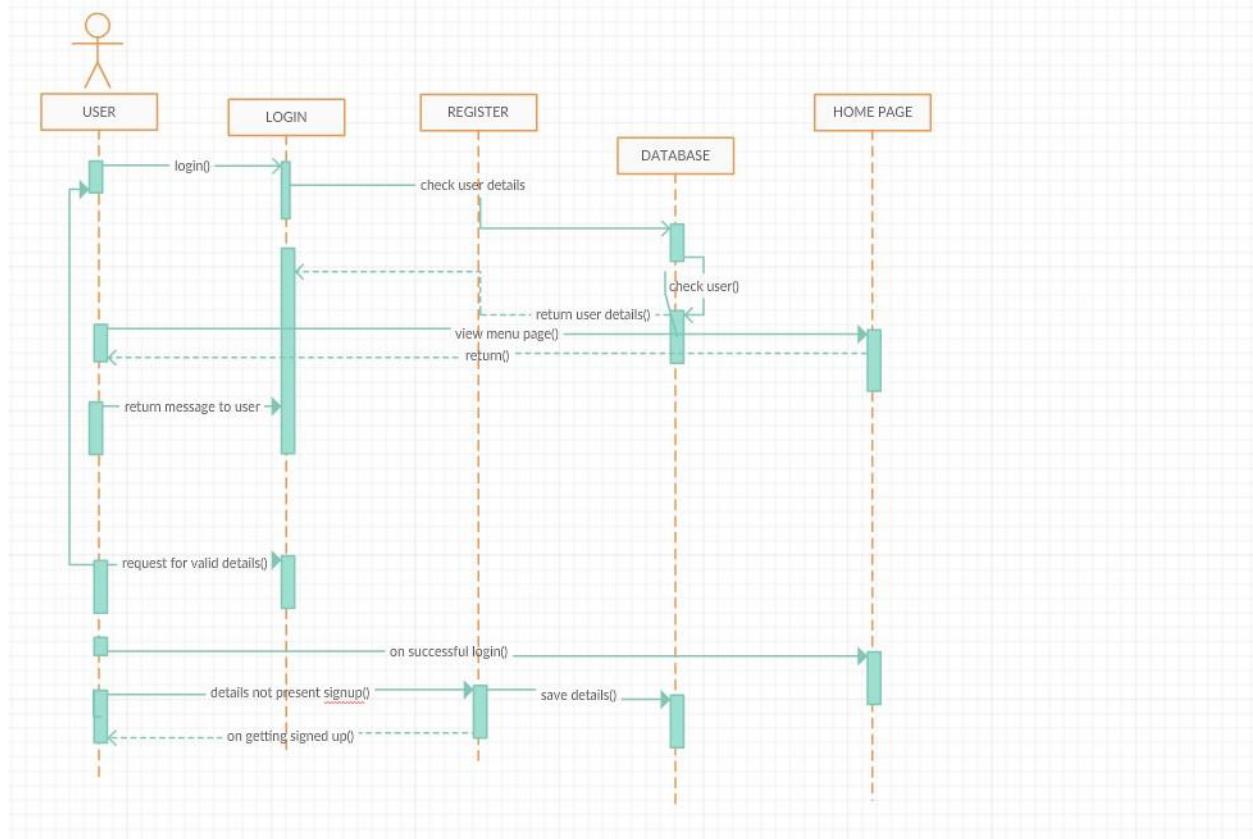
This diagram depicts the static structure of the Application using Classes and their Attributes.



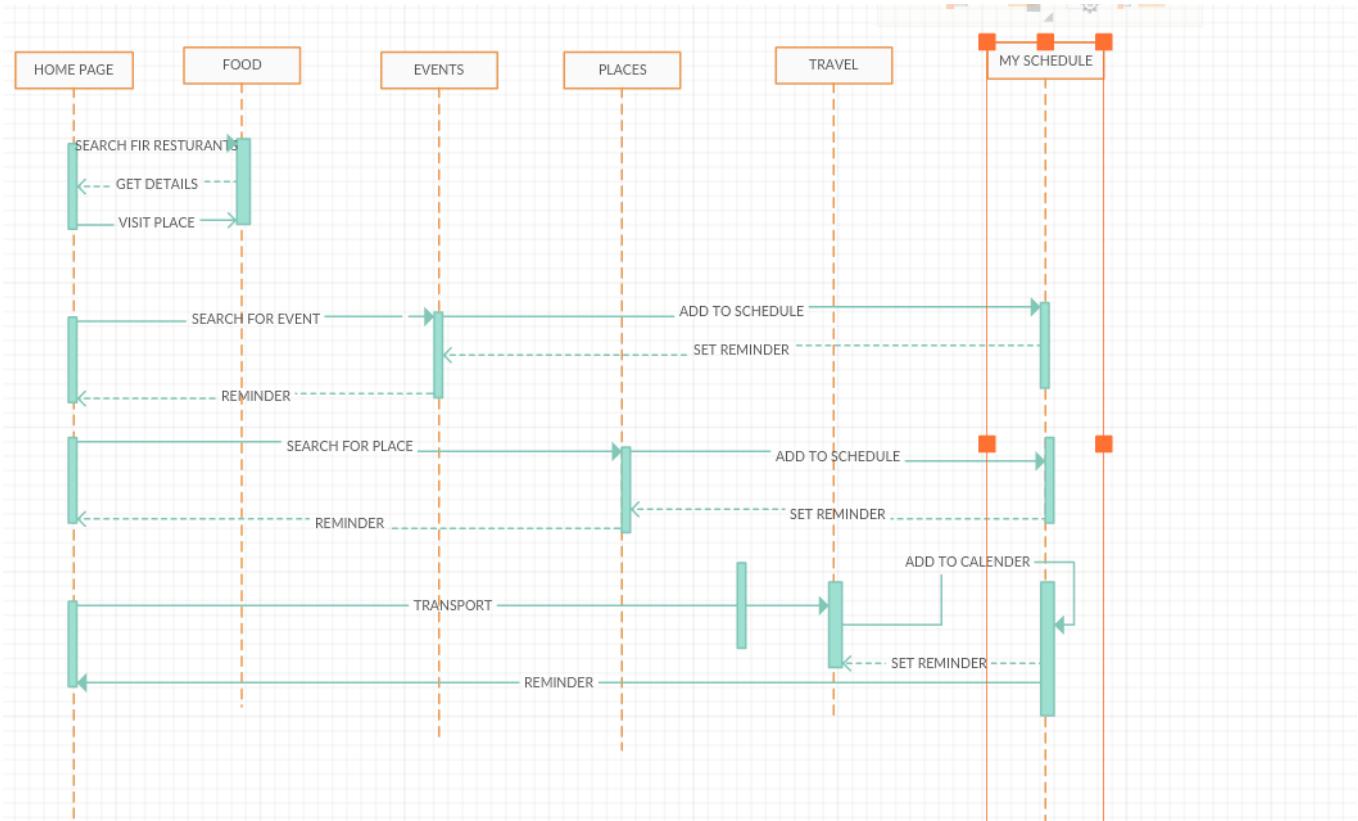
4.2.3 Sequence Diagram:

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

“Sequence Diagram for Login and registration:”

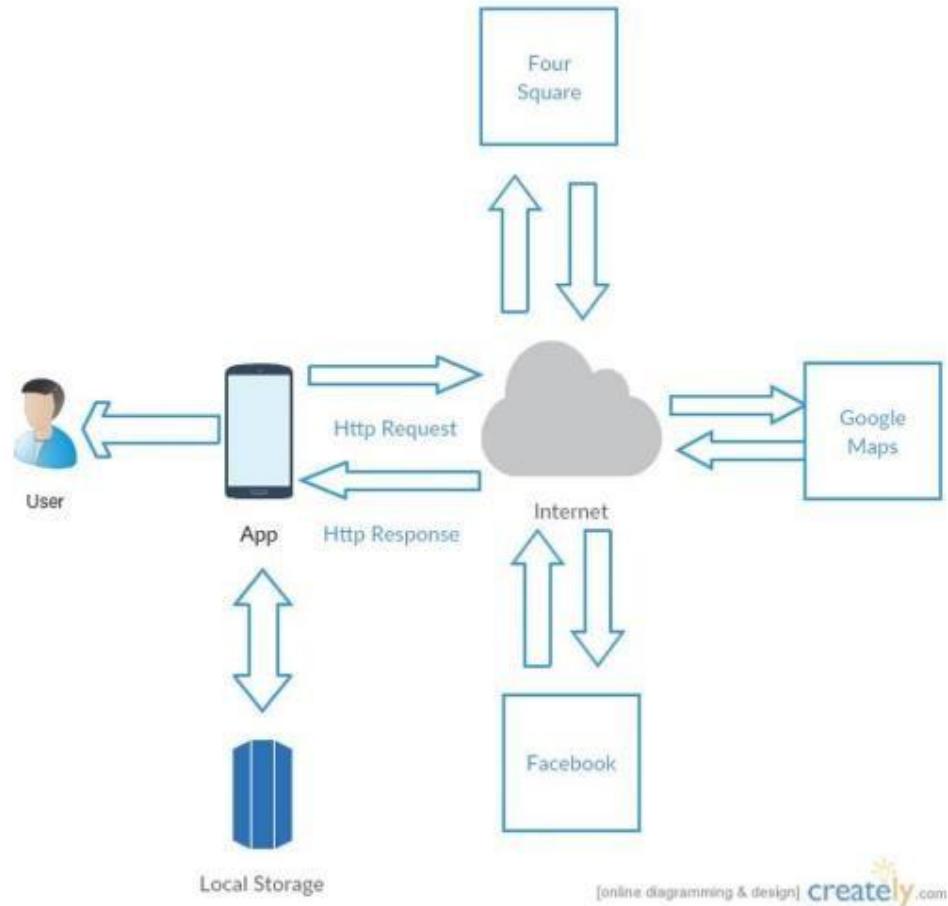


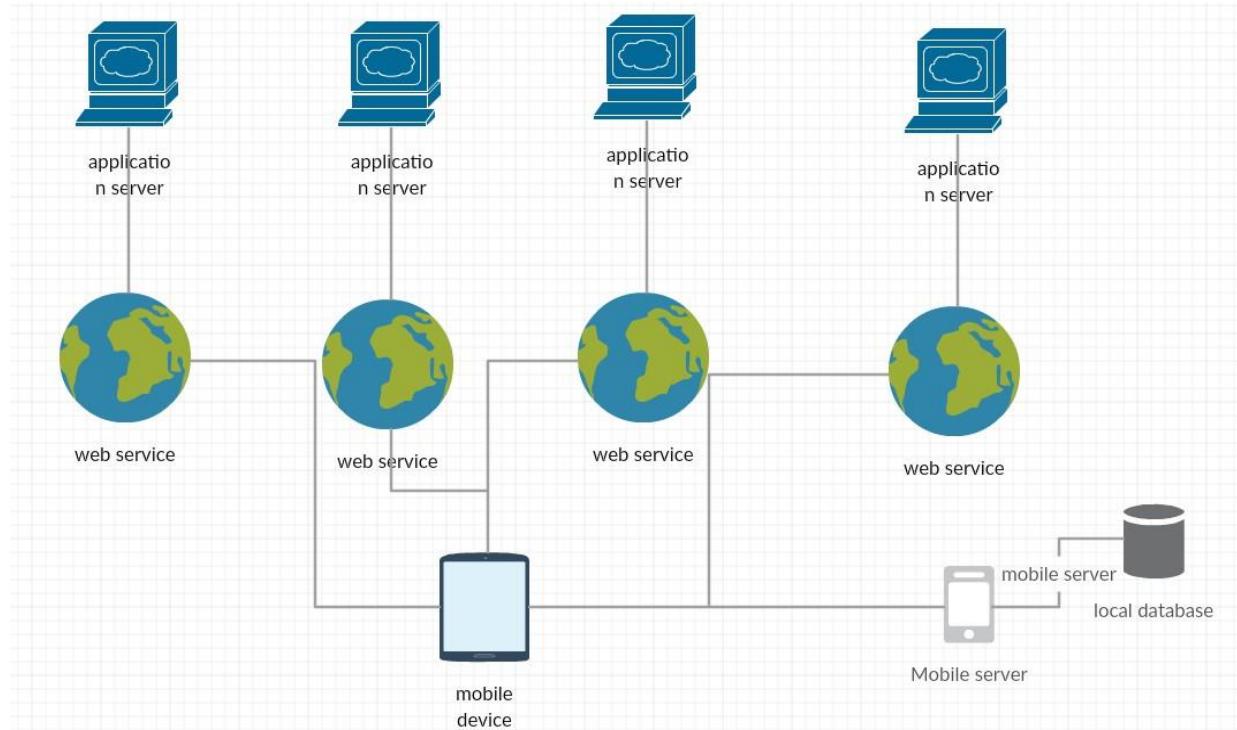
“Sequence Diagram for Home Page:”



“4.2.4 Architecture Diagram:”

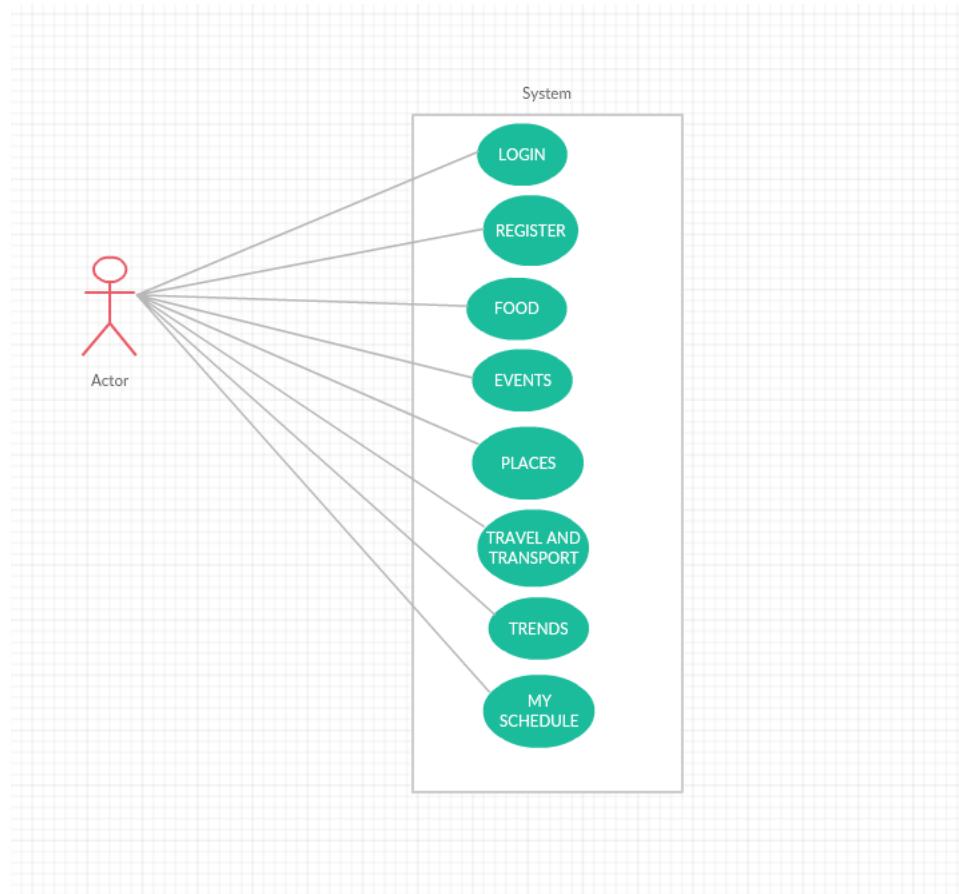
Structure and Behavior of the application is described in the system architecture.





“4.2.5 Use Case Diagram:”

Use case diagram represents the interaction of user with the application



“4.2.6 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 Basic Amenities present in that place	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

“4.2.7 Unit Testing:”

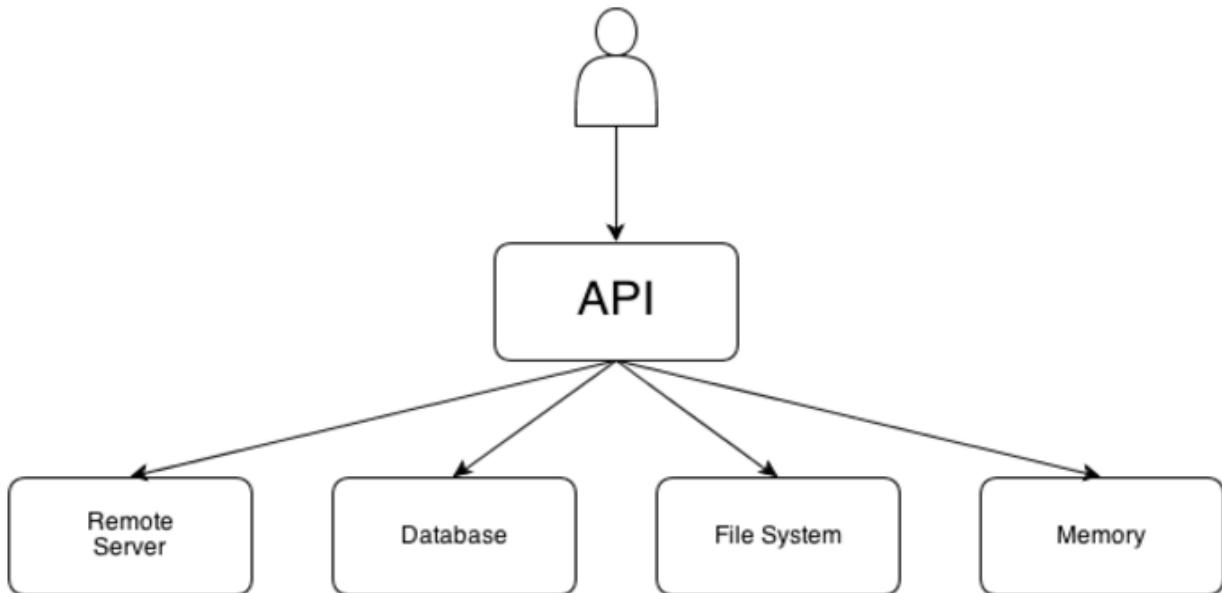
Case	Test Case Description	Expected Result	Actual Result
Events Search	On searching the location	Display the nearby events	PASS
Places Search	On searching the Location	Display the nearby visiting spots	PASS
Get Directions	On clicking on a location	Display G-Maps linked with the location along with the 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
Receive Notifications	On Scheduling Events	Receive Notifications on Scheduling Events	PASS

“4.3 Design Patterns:”

- In this Android Application, observed design patterns are “Façade Design Pattern” which is the “Structural Design Pattern” for Android Applications.

“Façade Design Pattern – Structural Design Pattern:”

- It provides an interface which makes other interfaces easier to use. Here is the Diagram which describes the functionality of this design pattern.



- Here, we need List of Places, Restaurants, Events, and Transport details. This Activities should ask a single object without even understanding the innerworkings of cache and API Client.
- If there any changes to be done with in the implementation of API, Activity will not get effected

Example code:

If the User wants to get List of books from an API

```
public interface BooksApi {  
    @GET("/books")  
    void listBooks(Callback<List> callback);  
}
```

Code Implemented in Application:

```
public static final String CLIENT_ID = "P2IIU4YKUJ2ILBZMYLTDO42TUKACIOTJ5QVEYUK3F2ZAW0K3";
public static final String CLIENT_SECRET = "3A3ZTVHPSK4VU2T2YJLY0SSD43IH1Z32JAQNAEV4DWML0";
public static final String URL = "https://api.foursquare.com/v2/venues/search?";
```

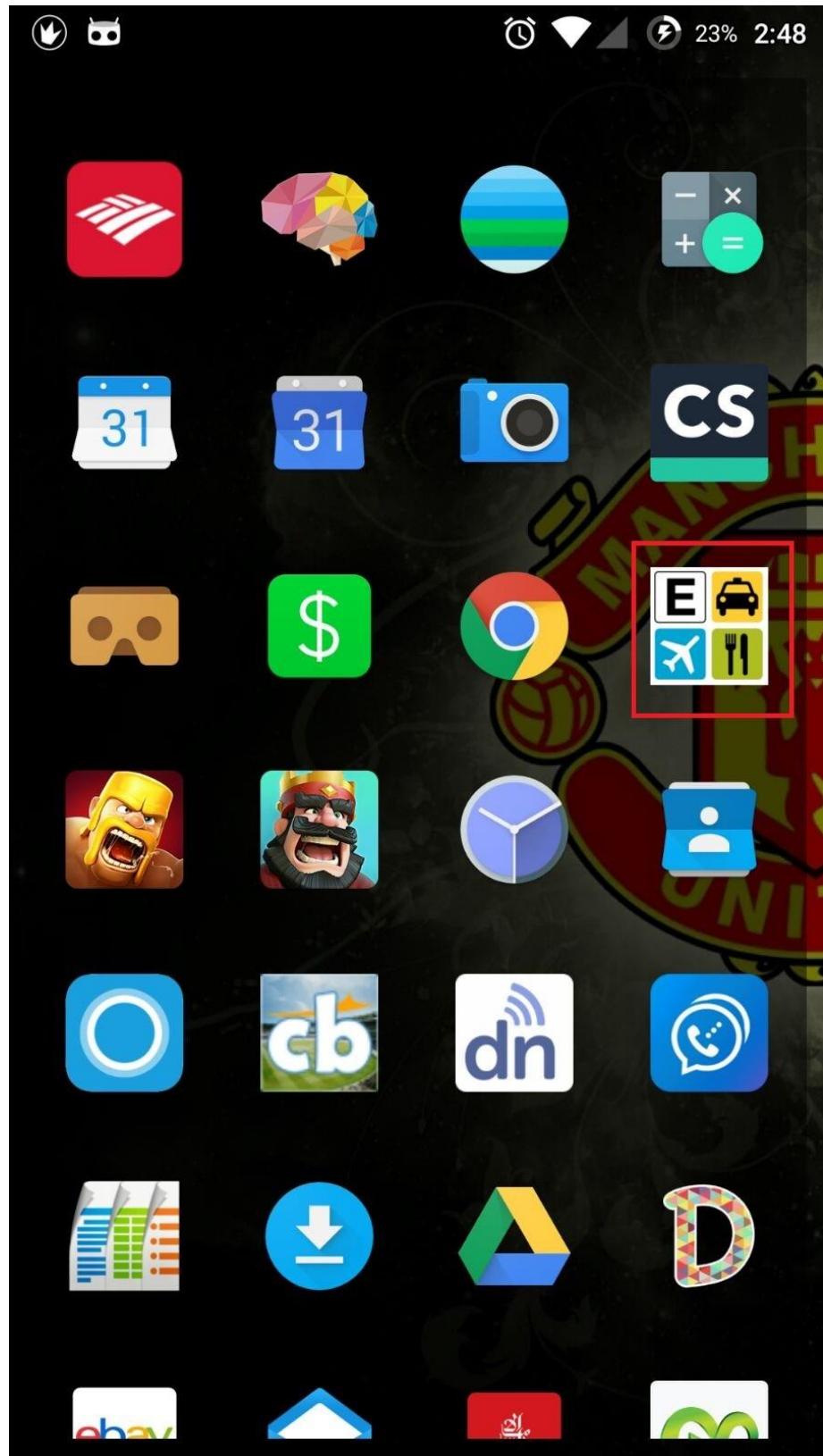
“5. Implementation and deployment:”

Android Application which we developed till date has been designed using android studio and result is observed using emulator and in an android mobile.

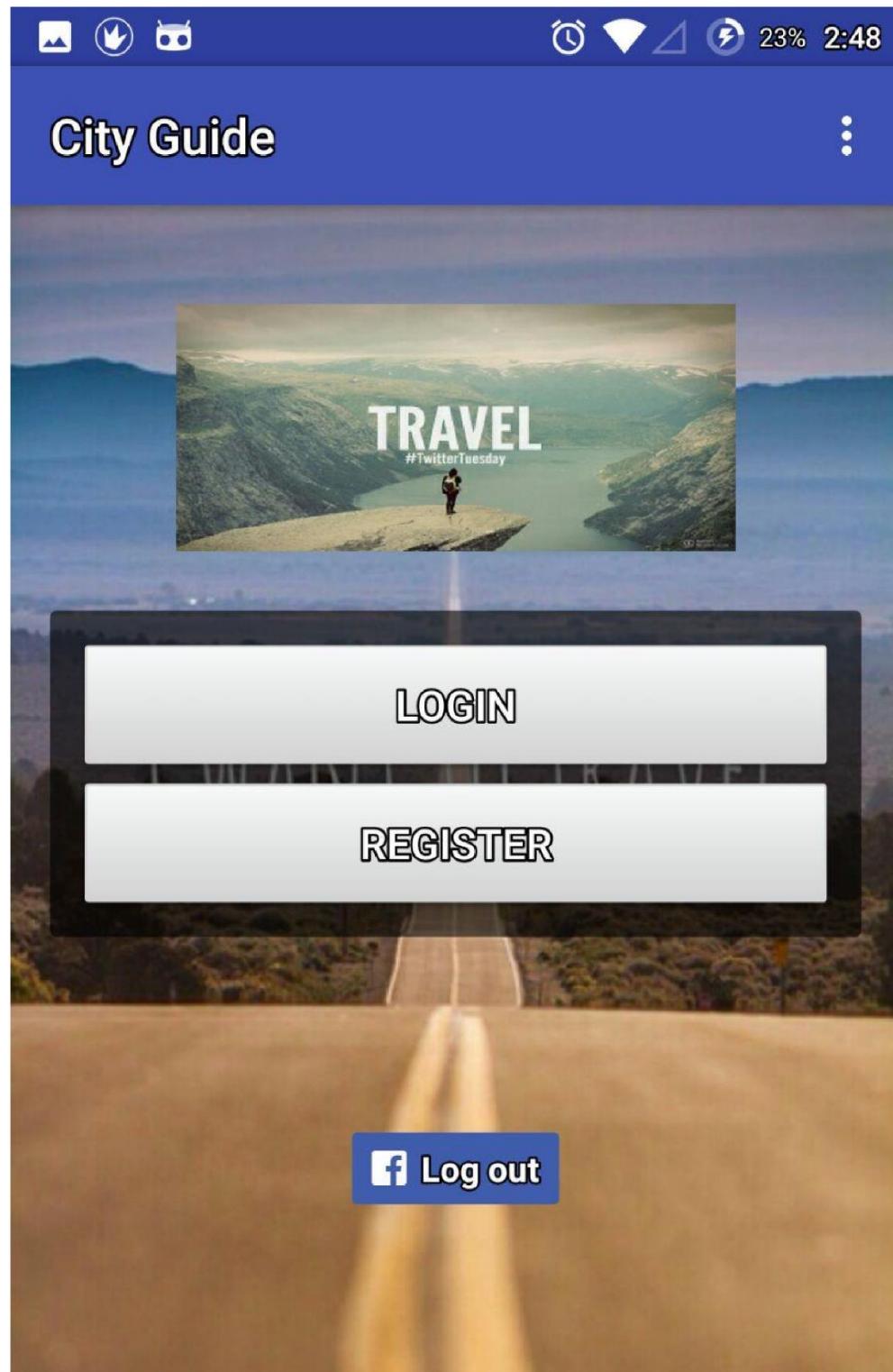
“Screen Shots:”

- By opening the Application in the android mobile following login page will be displayed which has email and password as attributes.
- If the user enters Invalid credentials, then an alert appears stating that Password do not match or Invalid Email
- If the user is new to the application, then he can register by using the registration page
- On clicking on the registration button a registration form appears
- New user should fill all the details and then by clicking on register button and get migrated to login page
- After successful registration, an alert appears with a message Success
- Then you will be navigated to the home page
- In the home page, you can find food, events, travel and transport, places, and trends icons
- By clicking on the respective icons, you can find the results accordingly
- By clicking on each results, Address and Location of the respective result will get displayed along with the G-map also choose date and time attributes are also present where the user can choose date and time to schedule his event
- Events scheduled can be viewed by clicking on My Schedule Icon
- These Events are stored in M-Lab and can be retrieved when the user clicks My Schedule Icon
- A delete button is present in extreme right which enables the user to delete the event if necessary

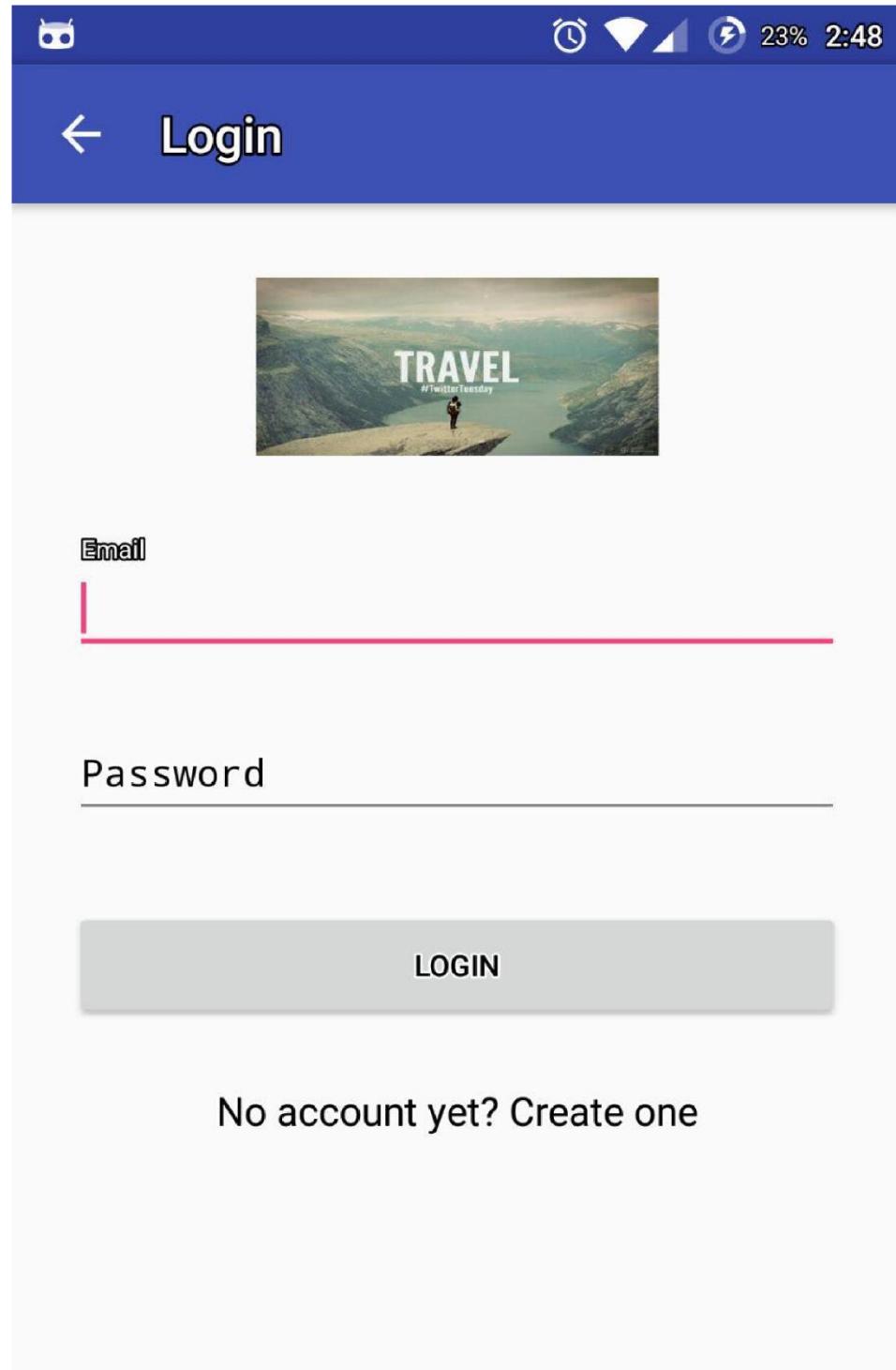
- Icon by clicking which application can be accessed



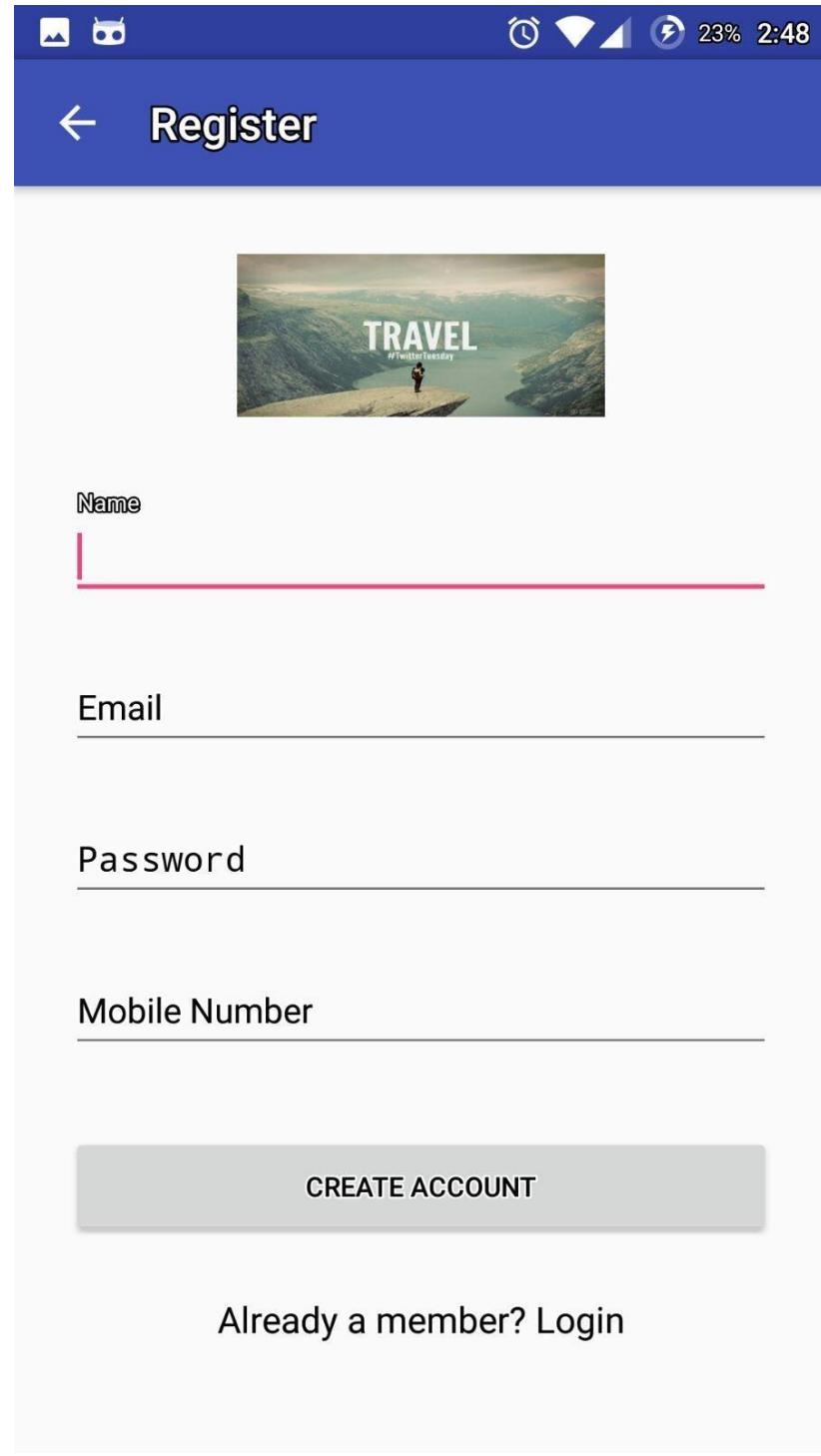
- By launching the application, A landing page is displayed which consists of Login, Register buttons along with the Facebook login button.



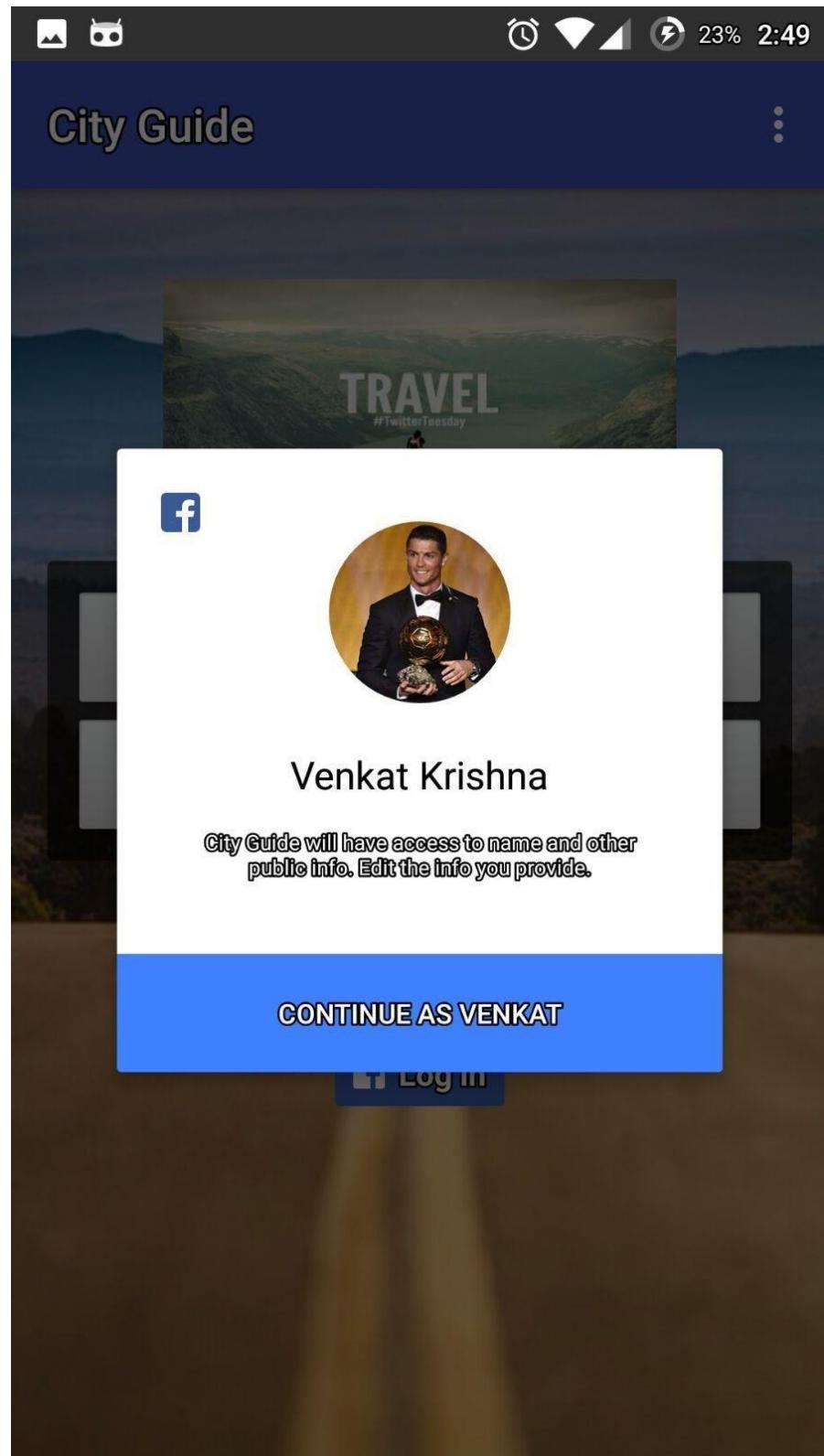
- By clicking on the Login Button the user gets navigated to the Login Page which consists of Email and Password attributes, after filling the details user clicks on login after successful login user gets navigated to the Home Page. If the user is new to the application then by clicking on “No account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



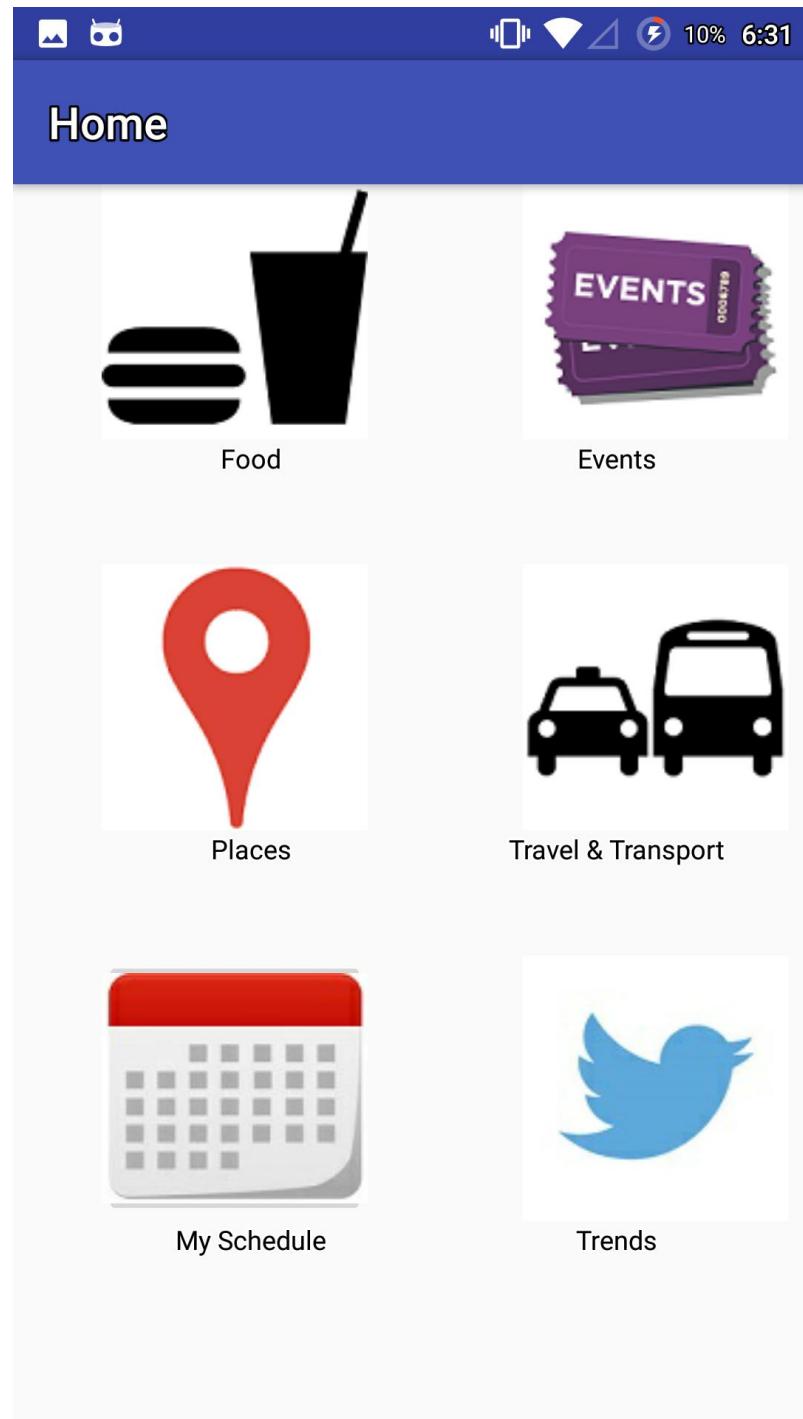
- If the user is new to application, by clicking on the Register button in the landing page he gets navigated to the registration page where Name, Email, Password, and Mobile Number attributes are present. After Clicking on the register button user gets registered and navigated to login page and after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



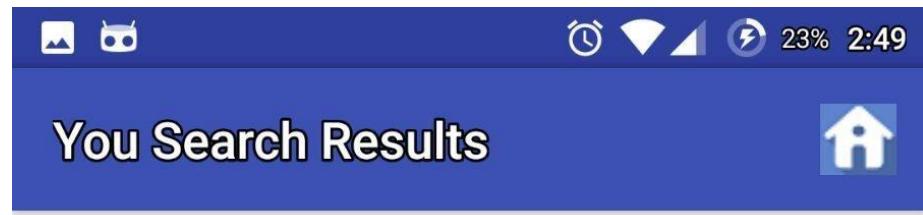
- User can also use his Facebook credentials to use the application, by clicking on the Facebook login button in landing page



- 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



- Following are the results which will be displayed



Starbucks

Kansas City



Black Dog Coffeehouse

Lenexa



Argosy Casino Hotel & Spa

Riverside



Starbucks

Overland Park



Hollywood Casino at Kansas Speedway

Kansas City



Sprint Center

Kansas



Kansas City Convention Cent

Kansas



Nelson-Atkins Museum of Ar

Kansas



AMC BarryWoods 24

Kansas

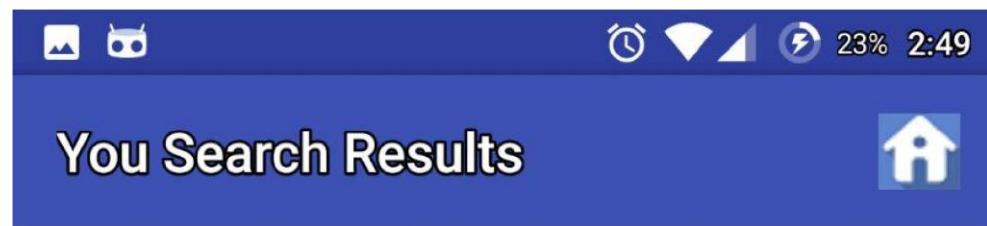


Alamo Drafthouse Mainstree

Kansas



AMC Ward Parkway 14



Grandview Triangle

Kansas (



DoubleTree by Hilton Hotel Kansas City-Overland Park

Overland F



Overland Park Marriott

Overland F



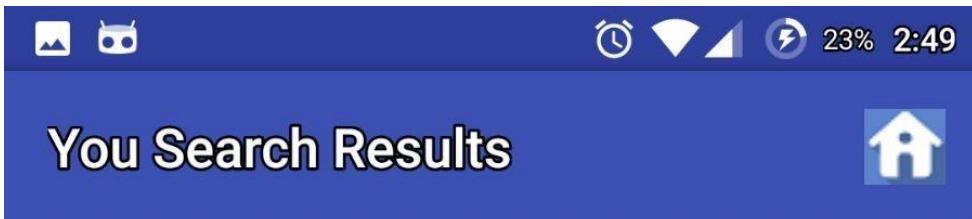
I 70 & 635

Kansas



Ameristar Casino Hotel Kans City

Kansas (



Salsa @ The Chesterfield Clu

Kansas City



GameOn

North Kansas City



Fontainebleau Clubhouse

Overland Park



The SPOTT Lifestyle and Swingers Club of Kansas City

Kansas City



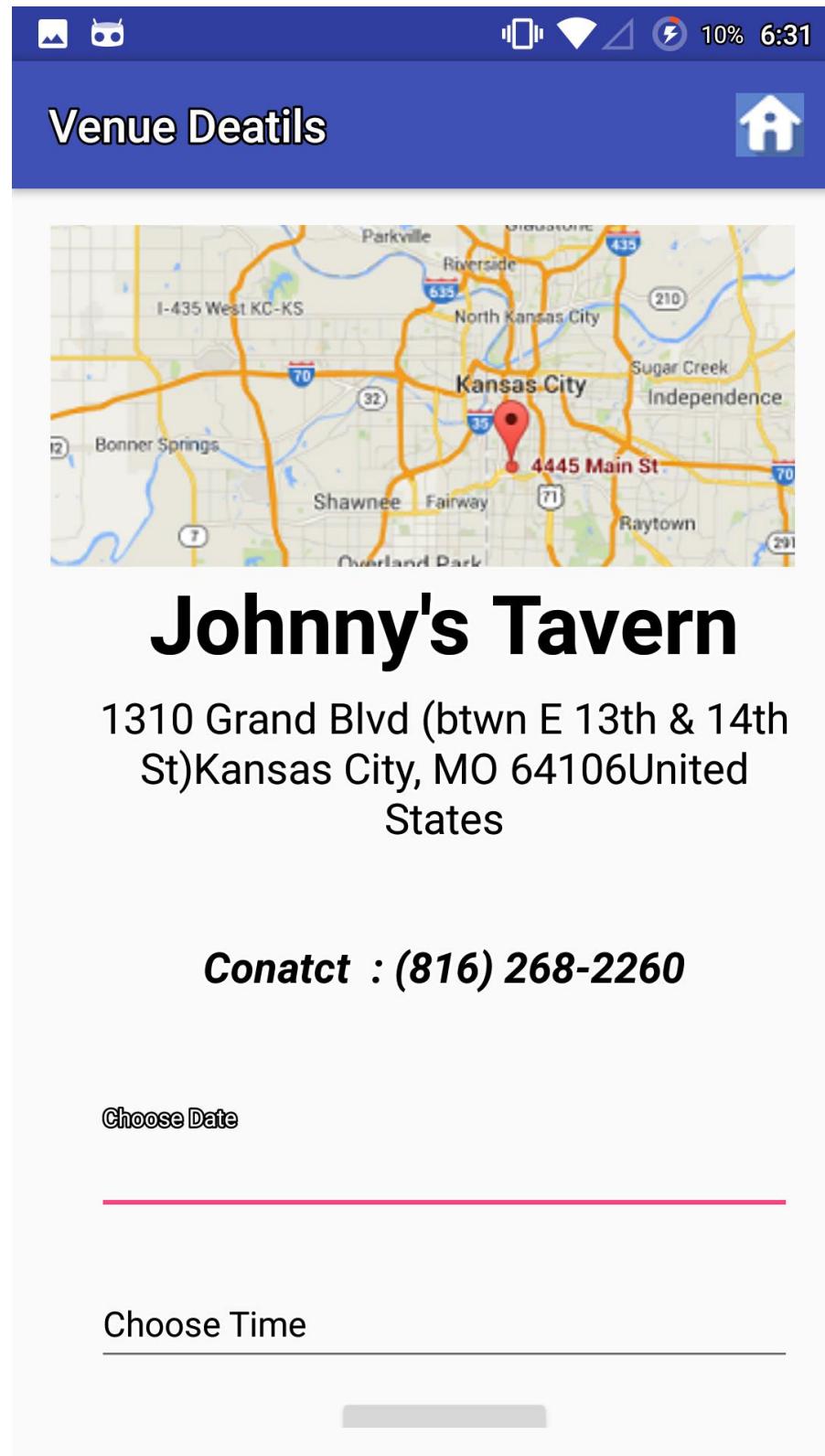
First Friday Film Festival - 4F

Kansas City

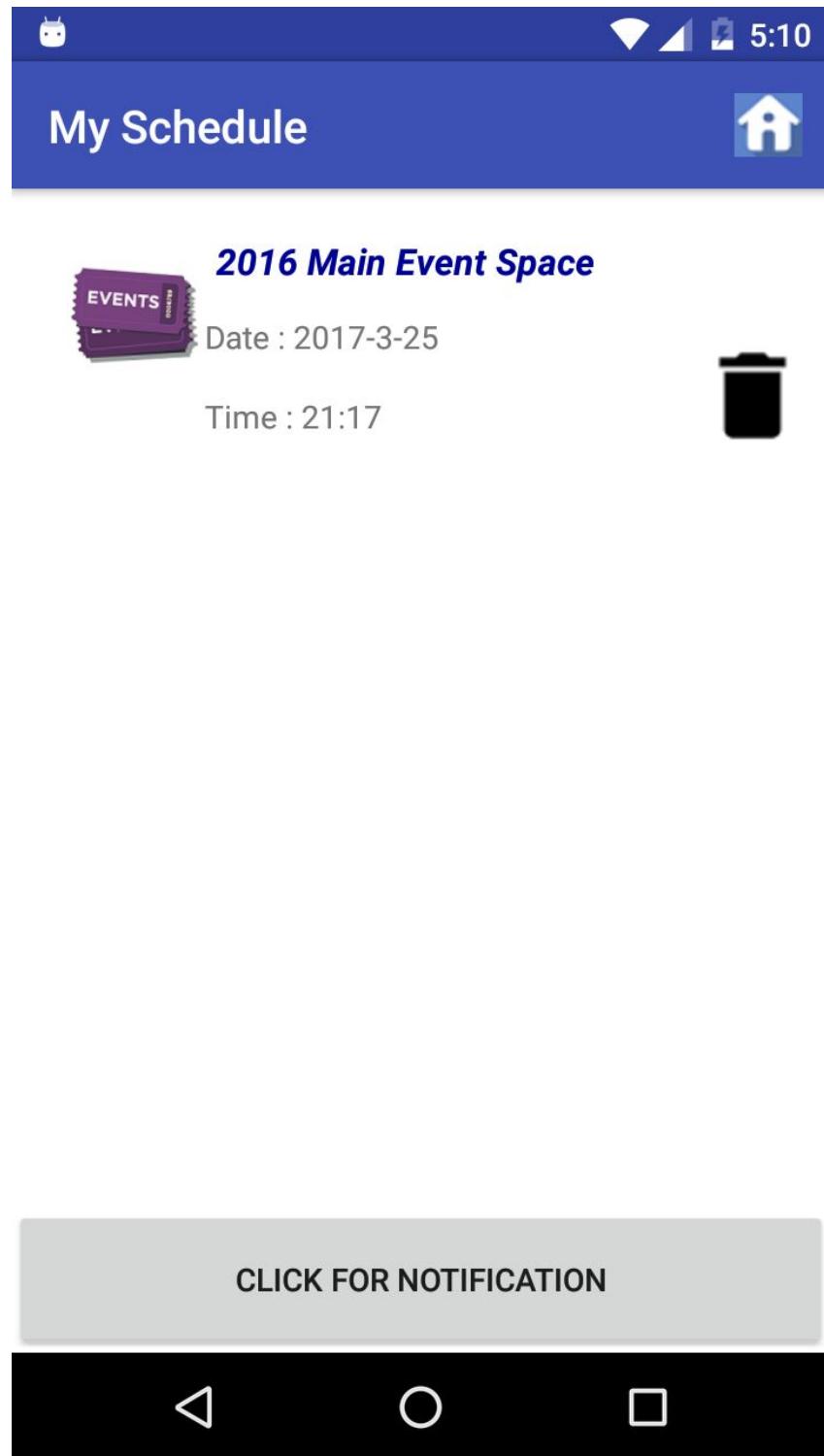


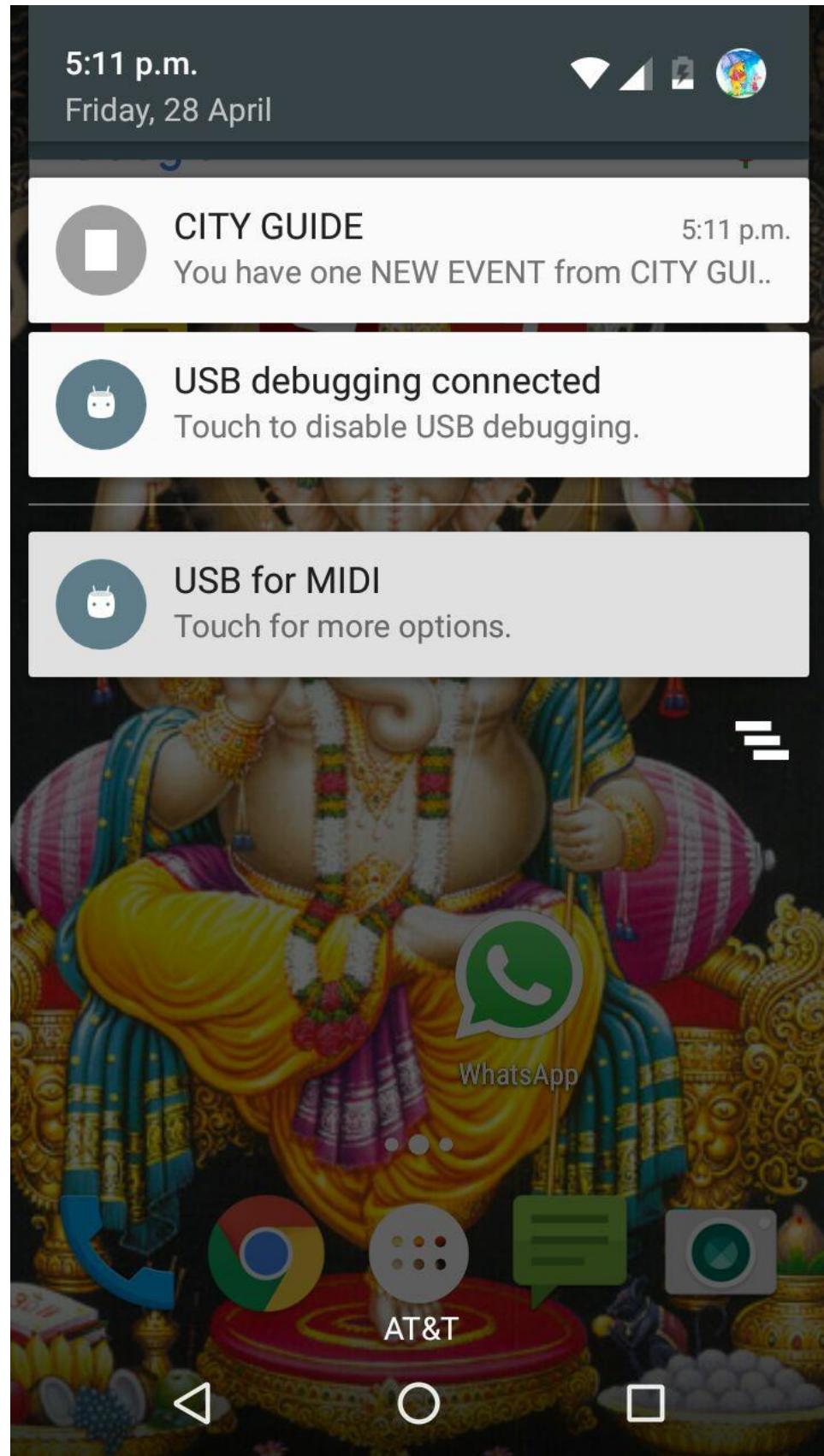
2016 Main Event Space

- 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.

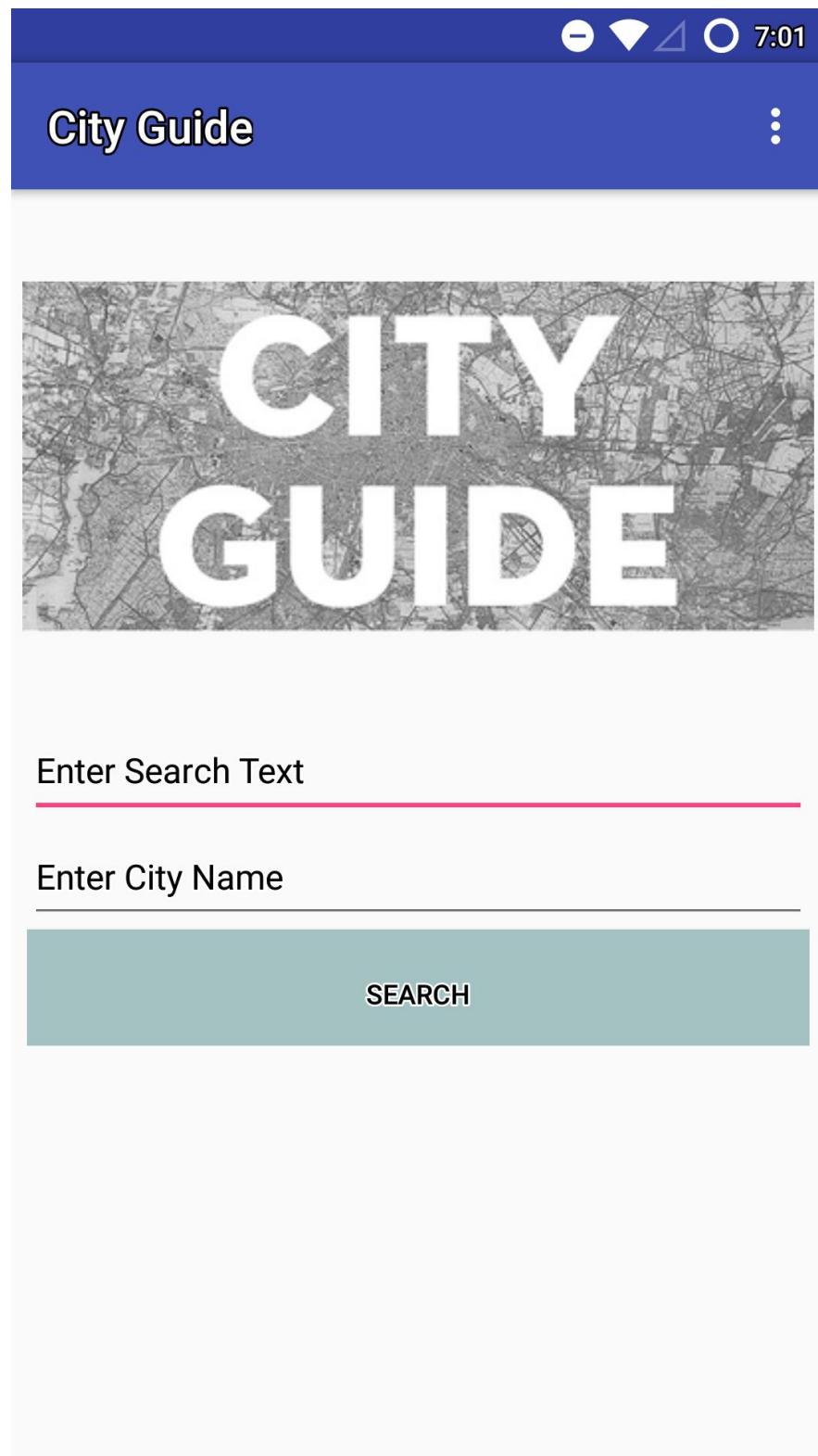


- These events can be viewed later, by clicking on my schedule icon, where a button for notification is placed and by clicking on that the user can get the notifications for the added events.

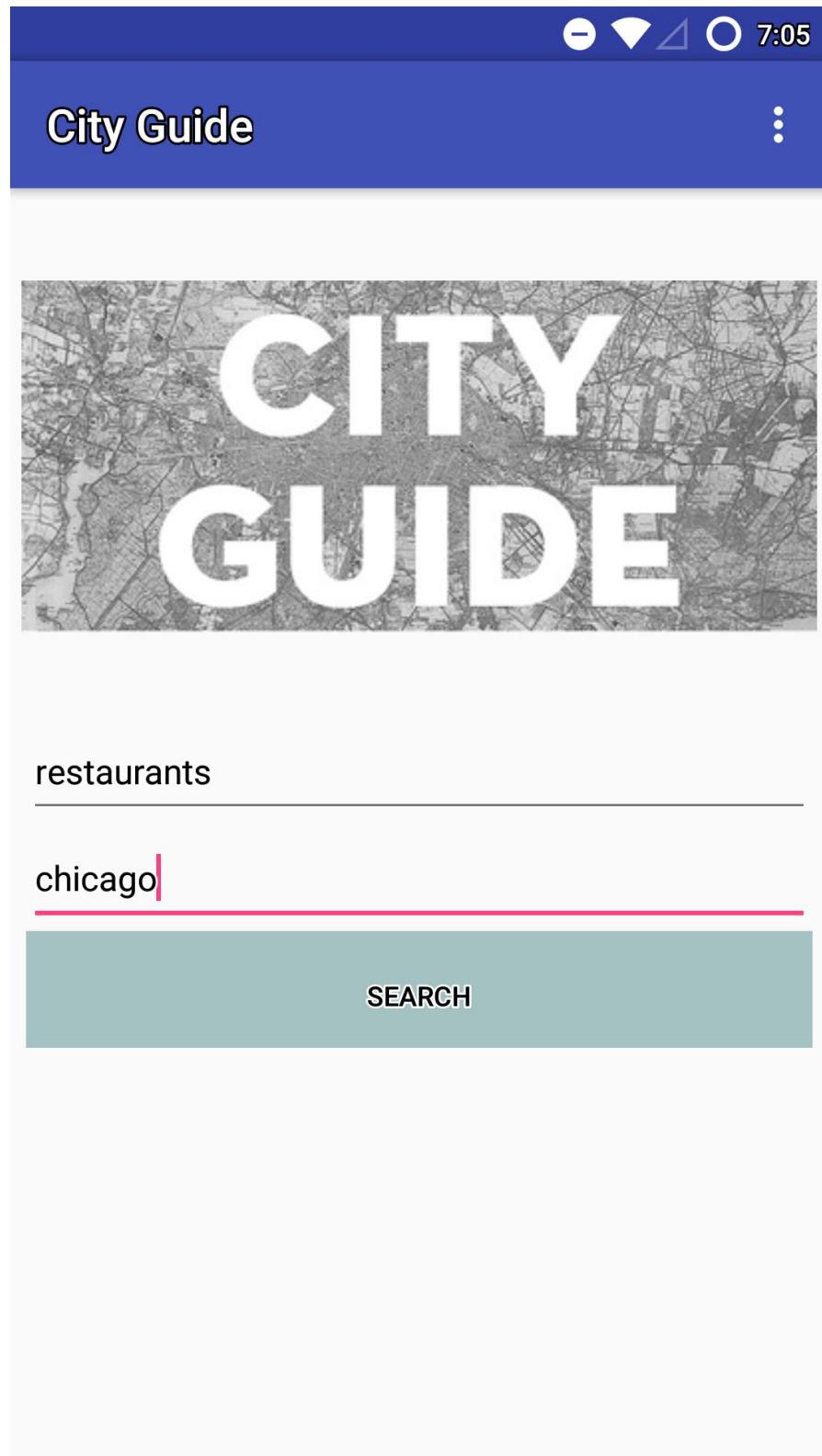


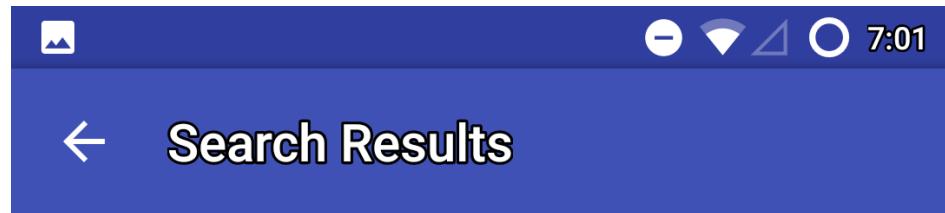


- If the User wants to search in other places other than geolocation he can do through the following page.



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





Phoenix Restaurant



Triple Crown Restaurant



Hing Kee Restaurant



Coyotes Restaurant



Lao Sze Chuan Restaurant

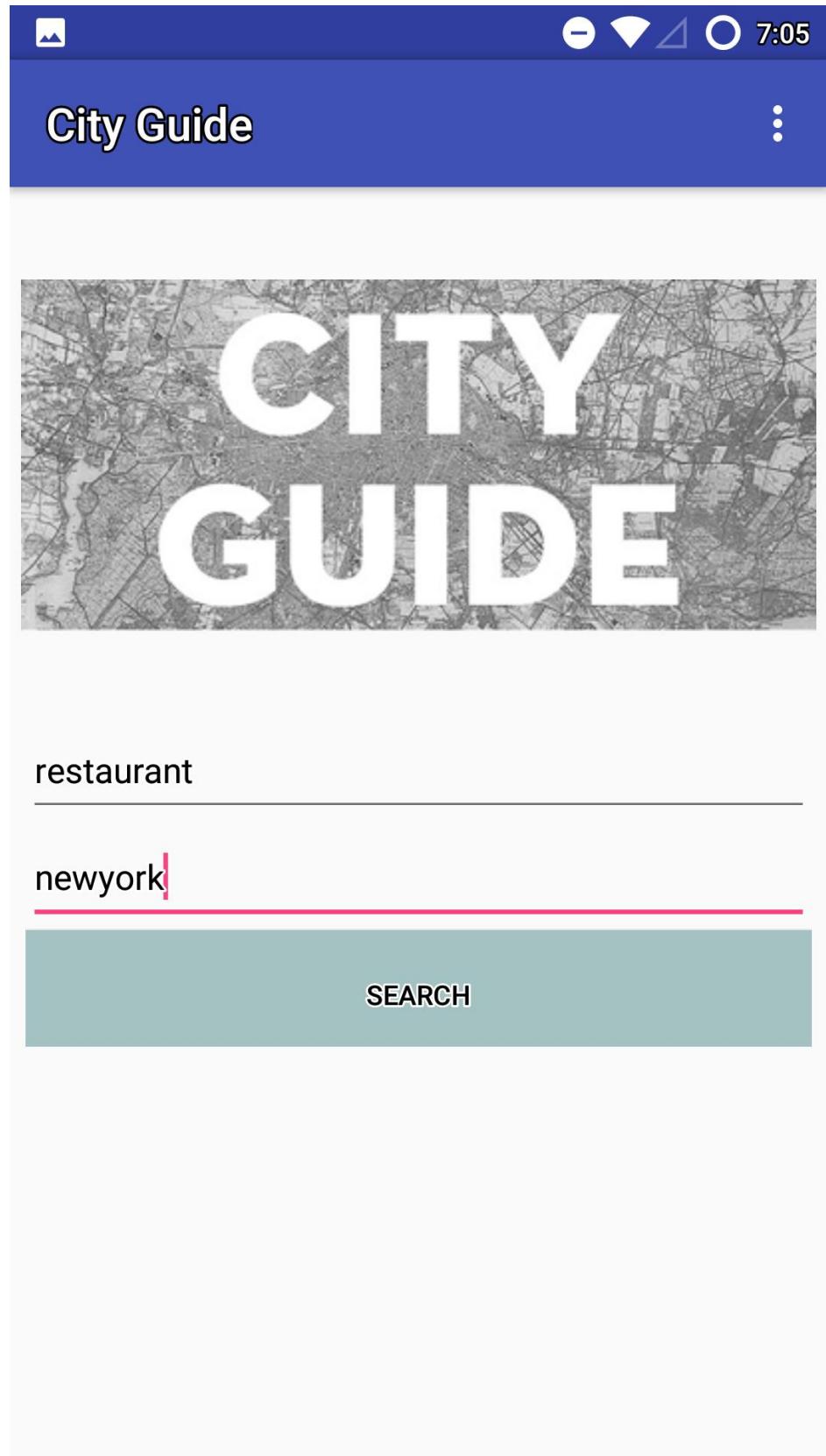


Athena Greek Restaurant



The Berghoff Restaurant

.... - - -





restaurant

Inver Restaurant



Ee-Usk



The China restaurant



Waterfront Bar & Restaurant



The Rannachan Restaurant



Waterfront Fish Restaurant



Seafood Temple







My Red Carpet Events



Genesis Master of Events



capture life events



Genesis Master of Events



Eclectic Affairs Event Services

“M-Lab Screenshots:”

The screenshot shows the MongoDB Deployments interface. At the top, there are two buttons: "Create from backup" (with a circular arrow icon) and "Create new" (with a lightning bolt icon). Below this is a section titled "Development and Utility" which describes single-node deployments intended for environments that do not require high availability. A table lists one deployment:

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

The screenshot shows the MongoDB Database interface for the "krishna" database. It includes connection instructions for the mongo shell and a standard MongoDB URI. A warning message states that Sandbox databases do not have redundancy and are not suitable for production. The "Collections" tab is selected, showing one collection named "krishna".

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.

Collections Users Stats Backups Tools

Collections

NAME	DOCUMENTS	CAPPED?	SIZE
krishna	1	false	8.22 KB

Delete all collections Add collection

“GitHub Wiki Link:”

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

“6. Project Management”

“Implementation Status report:”

“Technologies and Platforms used:”

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

“Work Completed:”

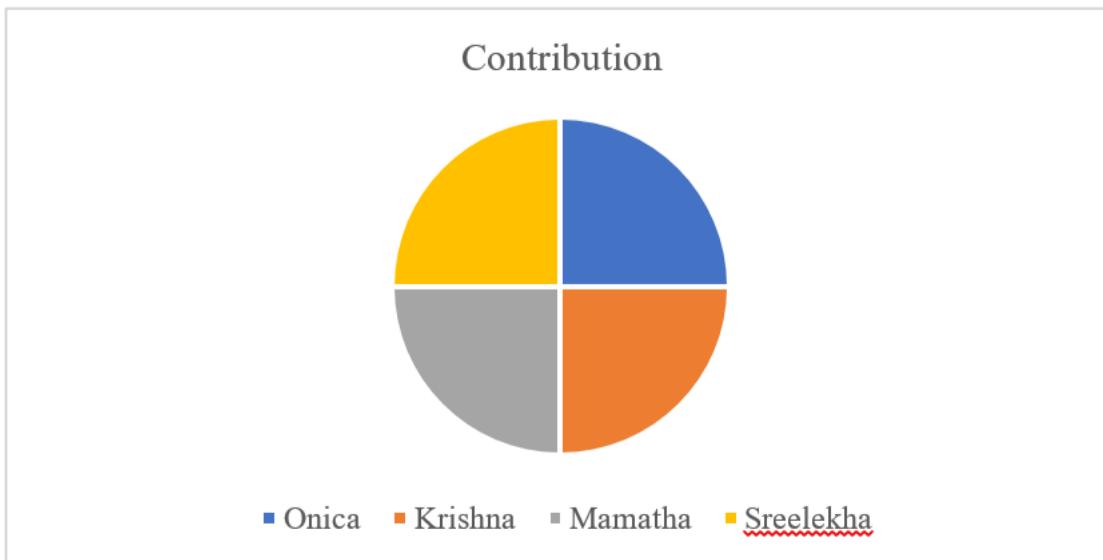
- Designed Architecture of the application
- Designed Login and registration pages
- Collected related information which will be used for further implementation of the Application
- Designing home page
- Database implementations

“Responsibility and Time Taken for Increment-4:”

- Scheduling Events: Mamatha-1hr, Onica-1hr
- Enabling Notifications: Onica-1hr, Sreelekha – 1hr
- Search-Bar Implementation: Krishna-1 ½ hr.
- Design Patterns: Onica-1/2 hr.
- Wireframes: Sreelekha-1/2 hr.
- Class Diagrams: Mamatha – 1hr.
- Design Elements: Krishna-1/2hr, Onica-1/2hr
- UI Implementations: Sreelekha-1½ hr, Mamatha-1hr, Krishna-1hr
- User Stories and test Cases: Onica-1hr, Mamatha-1hr
- Project Report: Krishna-1hr, Sreelekha-1hr

“Contribution:”

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



“Bibliography:”

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