Food Bucket

Software Project -1

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DECLARATION

This is to certify that this project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reported in this project has been properly acknowledged.

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APPROVAL

The project titled "**Food Bucket**" has been submitted to the following respected members of the board of examiners of the Department of Computer Science, American International University – Bangladesh [AIUB] in partial fulfilment of the requirements for the degree of Bachelor of Science in Computer Science and Software Engineering / Bachelor of Science in Software Engineering on August 27, 2018 and has been accepted as satisfactory.

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PROJECT SUMMARY

This project is based on food restaurant application which helps people to find the restaurants based on their needs. The system consists two parts basically: one mobile application and one web portal. In this system restaurant owners can provide their restaurant information using the web-portal. An authorized administration who can access the web portal can update the information of the web portal. On the other hand, the mobile application is used to provide locations of best restaurants for a specific food and view information about them. User can search their desired dishes through the mobile application. It is notify that in our system, only register users can rate the review. The application uses GPS connection also to fetch and display results and the users can view top desired restaurants on a map.

CHAPTER 1

INTRODUCTION

The "Food Bucket" is a food and restaurant finding based application. We are doing this application for the people to find any kind of food based on their needs. People needn't worry about to find restaurant or food. This application will help people based on the specification like dish, cuisine, restaurant and user's current position. The application is free to download, this is also one of the benefit to the user. The restaurant information will be displayed to the user on the basis of user's reviews and points

1.1 Purpose

The purpose of this document is to give a detailed description of the "Food Bucket" application. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications. This document is primarily intended to be proposed to a customer for its approval and a reference for the development of the first version of the system.

1.2 Background to the problem

Our application will help to find any kind of restaurant based on user choice. User can also search their desire food and they can also see the price of each food. In this way, many middle class people or students can go the restaurant between their budgets. This application also can detect user position and it will suggests nearest restaurant first. The application free to download from either a mobile phone application store or similar services.

1.3 Project Scope

The "Food Bucket" is a food and restaurant finding based application which helps people to find the restaurants based on the specification like dish, cuisine, restaurant and user's current position. The application should be free to download from either a mobile phone application store or similar services.

Restaurant owners can provide their restaurant information using the application. This information will be displayed to the user on the basis of foodies (users) reviews and points. An administrator uses the web-portal in order to administer the system and keep the information updated. The administrator can, for instance, verify restaurant owners and manage user information.

Furthermore, the application uses GPS connection to fetch and display results. All system information has been maintained in a database, which is located on a web-server. The software also interacts with the GPS-Navigator software which is required to be an already installed

application on the user's mobile phone. By using the GPS-Navigator, users can view top desired restaurants on a map and be navigated to them.

1.4 Intended Audience and Reading Suggestions

The intended audience for this document is the project sponsor, business analyst, customers, the development team and the team advisor. Throughout the rest of this document, the project will be broken up into sections.

The First section provides an overview of the purpose of the application and why the application has been developed, who will use this application and how can they be benefitted from the system.

The second sections provide an overview of the applications that we studied and analyzed before developing our project. We categorized the applications and extracted the features used in those applications in order to find a possible improvement.

The third section provides the perspective of the project in detailed terms and a description of the product features. User classes and their characteristics have been specified also. Also listed all the working operating environments as well as all the constraints are identified.

The forth section provides different user scenarios with a description of the different system interfaces. Necessary analysis models, UMLs and interface workflow are represented as well. Fourth section described all the product features that can be performed by using the application. In the end all the non-functional requirements will be described which includes performance, security as well as some other quality attributes.

The fifth section describes all features that were implemented and why they are required. It also describes the features of functional requirement and how they work.

The sixth section describe the testing plan and process. User-acceptance, regression and system testing this three types of testing performed in testing phase. It helps to find out the defects of application during the development process. It's essential since it makes sure of the Customer's reliability and their satisfaction in the application.

The seventh section describes the future work that means the features which were not implemented yet in our application and also describe how it can contribute to the society.

CHAPTER 2

EXISTING APPLICATION / SYSTEM STUDY

This section illustrates the existing systems or applications that we studied before developing this system. We have observed fifteen (15) systems for this purpose. Among them seven (7) are International Systems/Applications and eight (8) are our Domestic Systems/Applications. We have marked the features that they have and extracted the features with respect to the applications.

2.1 List of Domestic Applications / Systems

- Harriken
- Foodmart
- Hungry naki
- Foodiez
- Food Panda
- Cookups
- Where to Eat
- Restaurant Finder

2.2 List of International Applications / Systems

- Zomato
- FoodSpotting
- OpenRice
- Talabat
- Yelp
- The Fork
- SuperMeal

2.3 Features in Existing Applications/ Systems

We have extracted in total 50 features from the above mentioned applications/systems. These features are displayed in Table-1.

Table-1: List of Features

SL	Feature
1	Using geolocation explore nearby restaurants using map
2	For an entry in app one has to enter city name and city's specific place like Uttara
3	Login via email or Facebook account
4	Sorted out best places for some selected dishes in the city
5	For student within an affordable budget food items list
6	Discounts offer from restaurants
7	Specific restaurant whereabouts and status
8	food availability in the mean time
9	filter option using food name, price, restaurant name, cuisine name
10	popular restaurants list around the town
11	accessibility to map in order to more searching for restaurants
12	provide different type of cuisine choice option
13	display Customer or foodies previous order menu list
14	an account for restaurant manager or owner for advertisement
15	foodies can invite friends form Facebook
16	Provide opportunity for foodies like promoting restaurants or food items
17	Foodie of the month selection
18	list of foodies' information and their check in in listed restaurants
19	showing new restaurant in town
20	international buzzing food items information and health issues around those
21	Simply one can locate his/her location dynamically
22	Suggesting best meal for the day
23	feature like following and followers are available for foodies
24	food delivery time and charge display
25	special order option for customer
26	suggestion from customers or foodies to the developers
27	search restaurants, cuisine or dish with trending search
28	upload picture by foodies
29	Top foodies by sorting reviews
30	Finding a specific restaurants outlet in current city (not current or nearby location)
31	Searching special food items nearby location
32	Searching best food by location
33	scanning food all over the country by Google map area
34	Using the app first, log in with mobile number
35	Sign in with verification code sending through SMS
36	Searching price with selected price range
37	Price range system(max to min and min to max)
38	Register option with both phone number and email.
39	Update restaurant information by user.
40	User can login account after visiting apps or can visit the application as guest user.
41	Restaurants profile with menu, review and information section.
42	Providing menu with food items with price under food type.
43	Showing reviews with percentage (4 categories of review).
44	finding nearby restaurants with two way (pick one and list all)
45	Restaurants profile with a new things check in.

46	Delivery and collection
47	Show distance between you and desired restaurant destination
48	Live chat system
49	Ordering meal in online
50	Table booking system using customer name and date-time

2.4 Features in Domestic Applications

Table-2 shows the features with respect to the individual domestic applications. It also sums up how many features were found on which application/system.

Table-2: List of Features in Domestic Applications

SL	Harriken	Foodmart	Hungry Naki	Foodiez	Food Panda	Cookups	Where To Eat	Restaurant Finder	Count
1	✓		✓	✓	✓		✓	✓	6
2		✓				✓		✓	2
3	✓	✓	✓	✓	✓				5
4	✓					✓		✓	3
5	✓								1
6	✓	✓	✓	✓				✓	5
7	✓		✓	✓	✓	✓	✓	✓	7
8		✓			✓				2
9				✓		✓			2
10			✓			✓	✓	✓	4
11		✓							1
12			✓		✓	✓		✓	4
13			✓	✓	✓				3
14					✓				1
15	✓	✓				✓			3
16				✓					1
17				✓					1
18				✓					1
19	✓			✓					2
20				✓					1
21									0
22	✓		✓		✓	✓			4
23				✓					1
24					✓	✓			2
25					✓	✓			2
26	✓	✓	✓		✓				4
27	✓	✓	✓	✓	✓	✓			6
28	✓	✓	✓	✓	✓	✓			6
29			✓	✓	✓	✓			4
30	✓	✓	✓	✓	✓			✓	6
31			✓	✓	✓				3
32		✓	✓	✓	✓				4
33	✓	✓	✓	✓	✓	✓			6
34	✓	✓	✓	✓	✓	✓			6
35						✓			1
36	✓			✓		✓			3
37	✓	✓	✓	✓	✓	✓			6
38	✓		✓	✓	✓				4

SL									Count
39	✓		✓	✓	✓	✓			3
40	✓		✓				✓		3
41	✓	✓	✓	✓	✓				5
42		✓			✓	✓			3
43	✓		✓	✓	✓				4
44	✓	✓	✓	✓	✓		✓		5
45		✓	✓	✓	✓				4
46					✓			✓	1
47	✓		✓	✓	✓	✓	✓		6
48	✓	✓	✓	✓	✓	✓	✓	✓	8
49					✓	✓	✓	✓	4
50		✓							1
TC	25	20	27	30	31	23	8	11	

2.5 Features in International Applications

Table-3 shows the features with respect to the individual international applications. It also sums up how many features were found on which application/system.

Table-3: List of Features in International Applications

SL	Zomato	FoodSpotting	OpenRice	Talabat	Yelp	The Fork	SuperMeal	Count
1	✓	✓	✓	✓	✓	✓	✓	7
2	✓	✓	✓	✓		✓	✓	6
3	✓	✓	✓	✓	✓	✓	✓	7
4	✓	✓		✓				3
5								0
6	✓					✓	✓	3
7	✓		✓	✓	✓	✓		5
8				✓				1
9	✓		✓	✓	✓			4
10	✓	✓	✓	✓	✓	✓		6
11	✓	✓		✓				3
12	✓	✓	✓	✓				4
13								0
14	✓			✓		✓		3
15	✓	✓	✓	✓				4
16	✓	✓		✓				3
17								0
18	✓		✓	✓				3
19	✓		✓	✓				3
20								0
21	✓	✓	✓					3
22	✓	✓	✓	✓				4
23	✓	✓						2
24			✓	✓				2
25	✓		✓	✓	✓			4
26								0
27	✓	✓	✓	✓				4
28	✓	✓	✓	✓	✓			5
29	✓		✓	✓	✓			4
30	✓							1

31	✓	✓						2
32		✓						1
33		✓		✓				2
34	✓							1
35								0
36								0
37								0
38	✓							1
39	✓	✓	✓	✓	✓			5
40		✓	✓					2
41	✓		✓					2
42	✓		✓	✓				3
43			✓					1
44								0
45					✓			1
46							✓	1
47	✓	✓	✓	✓			✓	5
48	✓	✓	✓	✓			✓	5
49	✓	✓	✓	✓			✓	5
50						✓		1
TC	32	21	25	27	10	8	8	

CHAPTER 3

REQUIREMENT SPECIFICATIONS

This section will give an overview of the whole system. It will explain the system in its context to show how it can interact with other systems and introduce the basic functionality of it. It will also describe what type of stakeholders will use the system and what functionality is available for each type. At last, the constraints and assumptions for the system will be presented.

3.1 Application Perspective

This system will consist of two parts: one mobile application and one web portal. The mobile application will be used to provide locations of best restaurants for a specific food and view information about them. The web portal will be used for managing the information about the restaurants and the system as a whole.

The mobile application will need to communicate to a GPS application within the mobile phone, which in turn communicates with a physical GPS device to find the location of the user. The GPS will provide the mobile application with locations of both the user and the restaurants and the distance between them, but it will also provide maps and the functionality to display the application's data on the map. The functionality provided by the GPS will be embedded into the application in order for the user to be able to use the functions in the application in a seamlessly manner.

Since this is a data-centric product it will need somewhere to store the data. For that, a database will be used. Both the mobile application and web portal will communicate with the database, however in slightly different ways. The mobile application will only use the database to get data while the web portal will also add and modify data. All of the database communication will go over the Internet.

3.2 Application Features

With the mobile application, the users will be able to search for desired dishes. The result will be based on the criteria the user inputs. There are several search criteria and it will be possible for the administrator of the system to manage the options for those criteria that have that. The result of the search will be viewed either in a list view, depending on what criteria included in the search. The list view will have one list for top restaurant reviews on the search criteria and show a small part of the restaurant information so the user can identify the restaurant.

The map view will show each restaurant location as a pin on the map as well as the user's own location. In both views, the users will be able to either select a restaurant as target destination or get information how to get there, or view the information of a specific restaurant.

The web portal will provide functionality to manage the system and the restaurant information. It will also provide information about the system, for example show when there is a new update.

3.3 User Characteristics

There are four types of users interacting with the system. They are unregistered users (normal user) of the mobile application, registered users (foodies) of the mobile application, restaurant owners and administrators. Each of these three types of users has different use of the system so each of them has their own requirements.

The mobile application users can only use the application to find top restaurants based on ratings and reviews that was given by users and foodies. It means that the user will be able to search for desired dishes, choose a restaurant from that search outcome and then navigate to it. In order to get a relevant search result there are multiple criteria that the users can specify and all results matches all of those.

The restaurant owners will not only use the mobile application but also the web portal. There they will manage the information about their restaurant, for example a description of the restaurant, contact information and their menu.

The administrators interact with the web portal. They are managing the overall system so there is no incorrect information within it. The administrator can manage the information for each restaurant as well as the options for both the mobile application users and the restaurant owners.

3.4 Requirements for End User

This section will describe the feature requirements for all types of users.

3.4.1 Requirements for Unregistered Users

As an Unregistered User,
I want to search my nearby restaurants based on specific food
So that I can have my preferred food.

As an Unregistered User,
I want to provide my email address and phone number
So that I can register in the system.

As an Unregistered User,
I want to use google map within this application
So that I can know where nearby restaurants are.

As an Unregistered User,
I want to search food by name, by cuisine, by desired price range, by rating or by restaurant name
So that I can get my desired food at optimum cost.

As an Unregistered User,
I want to know the information of restaurants

So that I can learn about the foods they serve.

As an Unregistered User,
I want to search restaurants by place
So that I can know about different restaurants of different places.

As an Unregistered User,
I want to see marked path between my location and restaurants location
So that I can easily find my desired restaurant.

As an Unregistered User,
I want to see trending searches on application
So that I can get an idea of which food is popular right now

As an Unregistered User,
I want to see reviews on different categories such as ambiance, quality of food, price service etc.
So that I can choose better restaurants.

As an Unregistered User,
I want to see nearby restaurant's offers
So that I can avail them.

3.4.2 Requirements for Registered Users (Foodies)

As a Foodie,
I want to do all the things that an unregistered user can do
So that I can use all the regular features of this application.

As a Foodie,
I want to suggest the best meal or best restaurant to other users
So that they can try them out.

As a Foodie,
I want to post review/comment on new food item or cuisine or restaurant
So that other users can learn about different foods of different restaurants.

As a Foodie,
I want to post pictures of restaurants or food items
So that other users can get an idea of different foods of different restaurants.

As a Foodie,
I want to promote new or old restaurants by reviewing on them and their food items
So that other users can know about these restaurants.

3.4.3 Requirements for Restaurant Owners

As a Restaurant Owner,
I want to advertise my restaurant
So that customers can know about our restaurant's information.

As a Restaurant Owner,
I want to upload restaurant menu list along with food item pictures
So that customer can search their desired food using also our menu list.

As a Restaurant Owner,
I want to inform availability of food items
So that no customer should return with hunger.

As a Restaurant Owner,
I want to update our restaurant information like name or location
So that our daily customer should get our updated whereabouts.

As a Restaurant Owner,
I want to have conversation with foodies
So that I can reply back on his Q&A.

As a Restaurant Owner,
I want to provide different offers on food items
So that customers wish to avail them.

3.4.4 Requirements for Admins

As an Admin,
I want to permit restaurant owner to update their information
So that I can monitor any anomaly.

As an Admin,
I want to get feedback based on reviews for better usability and better user experience
So that more and more users wish to use my application.

As an Admin,
I want to upload a list of top trending food item or restaurant in town
So that users can learn about them.

As an Admin,
I want to suggest international buzzing food items
So that restaurant owners could use these information for their business.

3.5 Operating Environment

This application will be available on Android and iOS. However, users will be able to visit the website to get the service as well. Users can visit from their laptop, desktop or any internet connected devices. Latest every version of Android and iOS can use this application's mobile version. For better and efficient use and support, we are omitting the older versions of both of these two operating systems. For android operating system, the following versions will support our application:

- Jelly Bean: 4.1-4.3.1

- KitKat: 4.4-4.4.4
- Lollipop: 5.0-5.1.1
- Marshmallow: 6.0-6.0.1
- Nougat: 7.0-7.1

3.6 Design and Implementation Constraints

The mobile application is constrained by the system interface to the GPS navigation system within the mobile phone. Since there are multiple system and multiple GPS manufacturers, the interface will most likely not be the same for every one of them. In addition, there may be a difference in navigation features that each of them provide.

CO-1: Only the verified users will be able to use the application to comment or post a restaurants review. Account must be verified after sign up.

CO-2: This Application will be available only for Android and later on IOS. Any android phone supporting at least Jelly Bean will be able to run the application.

CO-3: The mobile application is constrained by the system interface to the GPS navigation system within the mobile phone. Since there are multiple system and multiple GPS manufacturers, the interface will most likely not be the same for every one of them. Also, there may be a difference between what navigation features each of them provide.

CO-4: The internet connection is also a constraint for the application. Since the application fetches data from the database over the internet, it is crucial that there is an internet connection for the application to function.

CO-5: The database system of this application will be based on SQLITE.

CO-6: This application will only available in English language.

CO-7: Application itself will ensure the total security of user data.

CO-8: To avoid problems with overloading the operating system the application is only allowed to use 20 megabytes of memory while running the application. The maximum amount of hard drive space is also 20 megabytes.

CO-9: Development of the application will have to maintain the java documentation standards and conventions for Android.

Both the web portal and the mobile application will be constrained by the capacity of the database. Since the database is shared between both applications it may be forced to queue incoming requests and therefore increase the time it takes to fetch data.

3.7 User Documentation

UD-1: The system shall provide an online hierarchical and cross-linked help system in HTML that describes and illustrates all system functions.

UD-2: The system shall provide a user manual and a video that how it will work.

UD-3: The first time a new user accesses the system and on user demand the system shall provide a demo of the application, to allow users easily get into the application.

UD-4: There will be option to send any complain, report or suggestion about user experience for improving the application.

UD-5: The system shall provide a help desk called 'Food Bucket' SUPPORT' which will be available 24/7.

3.8 Assumptions and Dependencies

AS-1: This application will be available to user 24/7.

AS-2: The application will be more user friendly to fulfill user expectations.

AS-3: Users will get the best user experiences by using the application.

AS-4: Business could be possible by advertisement of restaurant owners.

DE-1: Sign up of a user will depend on e-mail and mobile number verification process.

DE-2: Restaurant owner's sign up will depend on the verification process o the administration.

DE-3: As the application is online based it will be connected to database for checking the restaurant information's , food reviews , comments , ratings and location information as well as user profile.

DE-4: Mobiles which we will use to run the application must have the specification to run the program well.

DE-5: Advertiser's payment can be done with bank cheque, bKash.

CHAPTER 4

DESIGN SPECIFICATIONS

All the user scenarios, UML Diagrams along with data dictionary will be shown and described in this section. UML Diagrams contain Use Case diagrams, Activity diagrams and Entity Relationship diagrams.

4.1 User Scenario

For this application service all the user stories based on three major user characteristics are given:

Table-4: User Story

Sample UseCase	Actor	Corresponding User Stories
Sign Up	Restaurant Owner/ Unregistered Users	As a Restaurant Owner/ Unregistered User, I want to sign up so that I can use the application.
Login	Restaurant Owner/ Foodies	As a Restaurant Owner/ Foodie, I want to login so that I can use the application whenever I want.
Request for password	Restaurant Owner/ Foodies	As a Restaurant Owner / Foodies, I want to request for my password if I forget it so that I can use the application again.
Set Information	Restaurant Owner/ Foodies	As a restaurant Owner or a foodies, I want to set the information about myself, including my favorite foods and so that other users will know about them.
Search Method Selection	Foodies	As a Foodie, I can search in many ways about foods. By food category search , by location search etc.
Modify search	Foodies	As a Foodie, I can modify the search and can also filter the search results.
Show Search History	Foodies	As a Foodie, I can see their search history to find previous searches.
Show Reviews	Foodies	As a Foodie, I can see reviews of other's post and can also react to them.
Live Support	Restaurant Owner/ Foodies	As a restaurant Owner or a Foodies, I can contact the live support 24/7.

Select Search Locations	Foodies	As a Foodies, I can choose a specific location to search on that specific area for any desired food or restaurants.
Assign Own Foodies	Foodies	As a Foodies I can give a review of any food from my account.
Rate Review	Foodies	As a Foodies I can rate reviews of other reviewers or can rate my own review on scale of 10.
Modifying Account Information	Restaurant Owner/Food Reviewer	As a restaurant Owner or a food reviewer I can make changes to my contact information or address information by verifying my mail or mobile number.
View Restaurant Information	Restaurant Owner/ Foodies	As a restaurant Owner or a Foodies I can see information of other restaurants and other reviewers review about the restaurant.
Remove Account	Restaurant Owner/ Foodies	As a Foodies I can remove my account but have to verify a code from mobile number. As a restaurant owner I can remove my account but have to do it by contacting Food Bucket's Admin.
Uploading Picture of Foods	Foodies	As a Foodies I can upload pictures of my foods when I give a review.
Share Reviews	Foodies	As a Foodies I can share a review of other reviewer.
Comment In Reviews	Food Reviewer	As a food reviewer I can make comments in other reviewer's review or can comment in own review.
One Tap Best food Search	Food Reviewer	As a food reviewer there is a option for one tap search .One tap search will find the best foods around the current location.
Sort By Price	Foodies	As a Foodies I can search and click sort by price to find the food with lowest or highest price.
Sort by Rating	Foodies	As a Foodies I can search and click sort by rating to find the food with lowest or highest rating.
Advertise Foods by Restaurant owners	Restaurant owner	As a restaurant owner I can put my advertisements to their website or application by paying Food Bucket.
Report Review	Foodies	As a Foodies I can report against any reviewers review if it abusive or violation to anyone.
Sign Out	Foodies /Restaurant Owner	As a restaurant Owner or a Foodies I can sign out if the application.

4.2 UML Diagrams

4.2.1 Use Case Diagrams
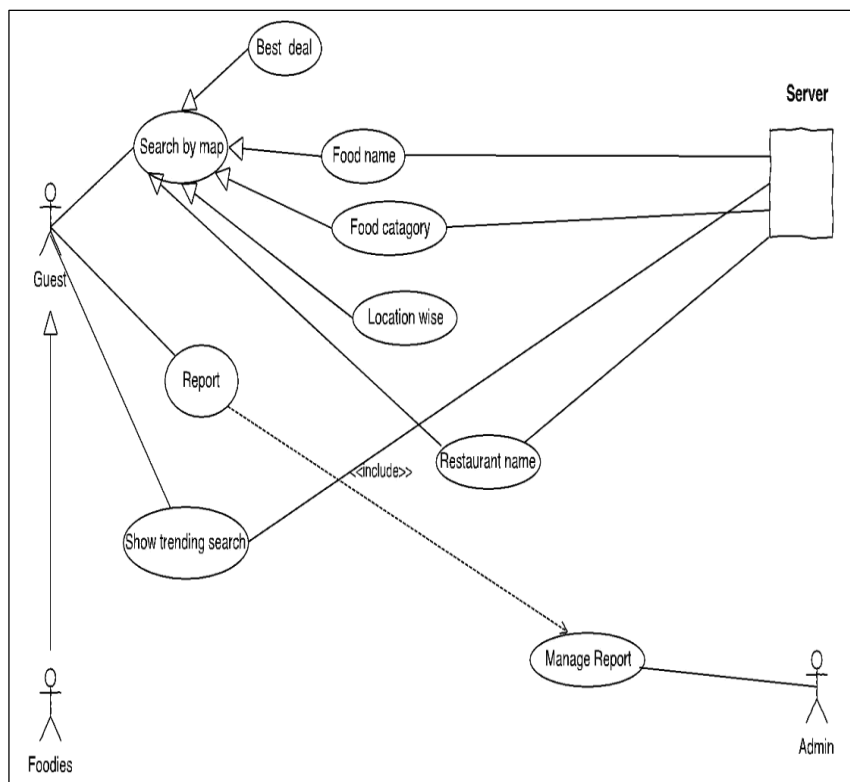
Figure-1: Use Case Diagram for Guest
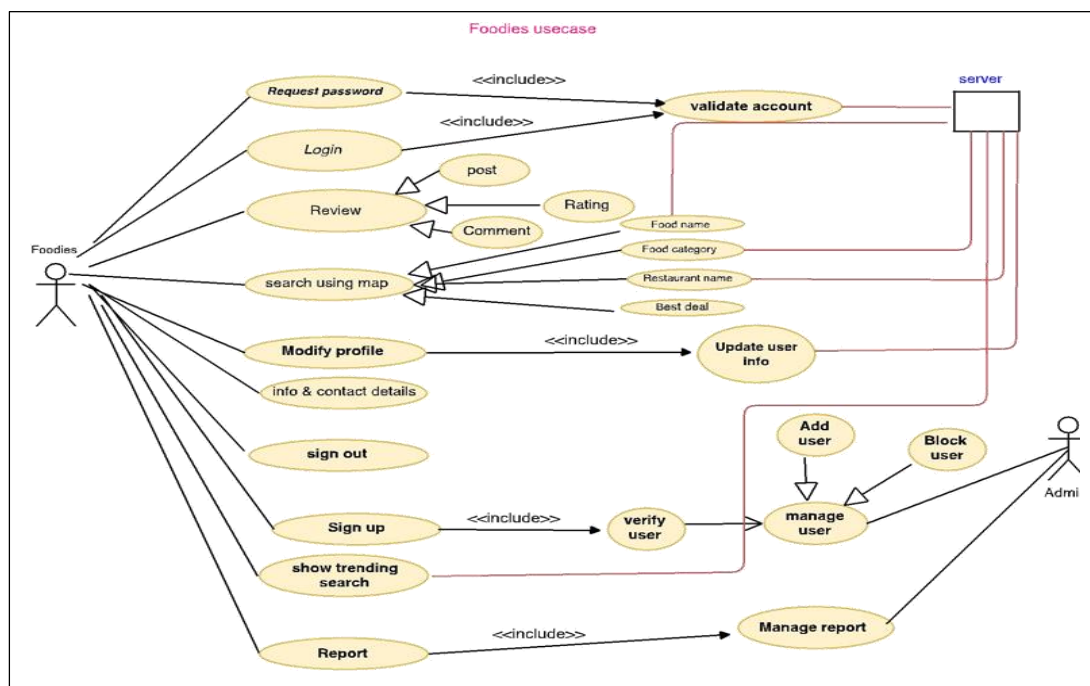

Figure-2: Use Case Diagram for Foodies
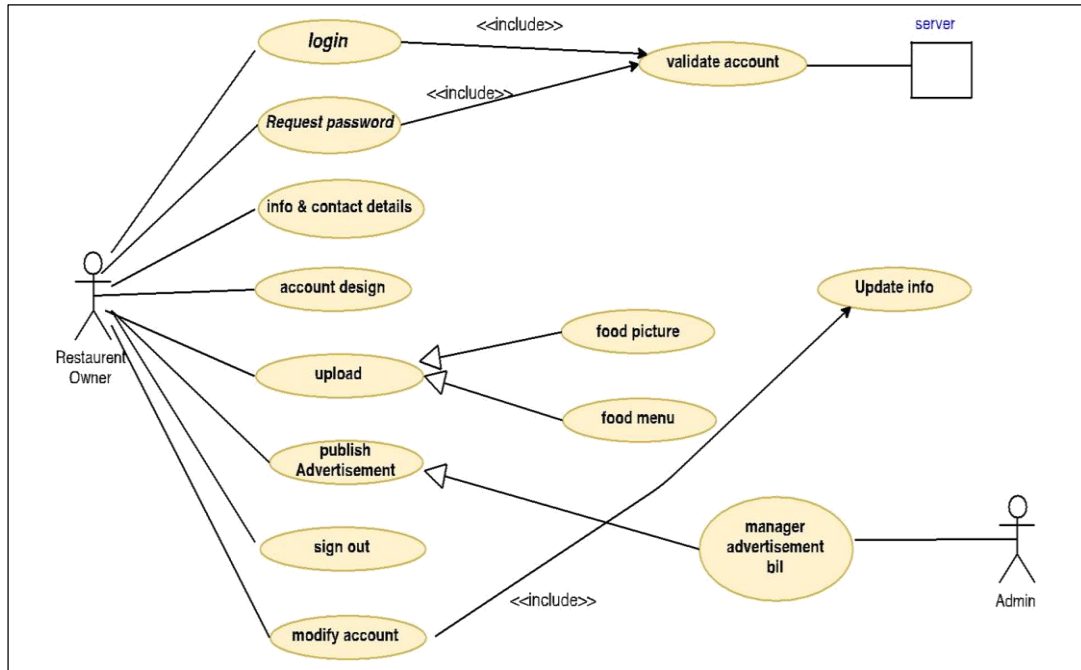
Figure-3: Use Case Diagram for Restaurant owner

4.2.2 Activity Diagrams
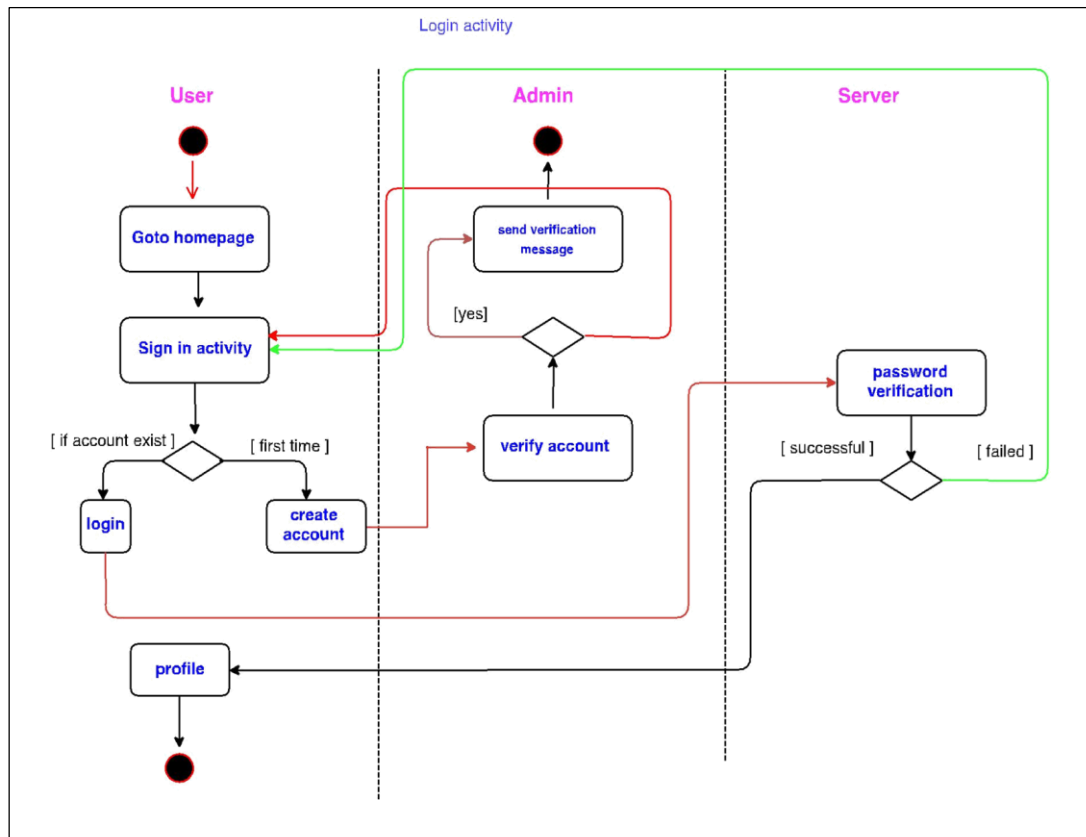
Figure – 4: Login Activity
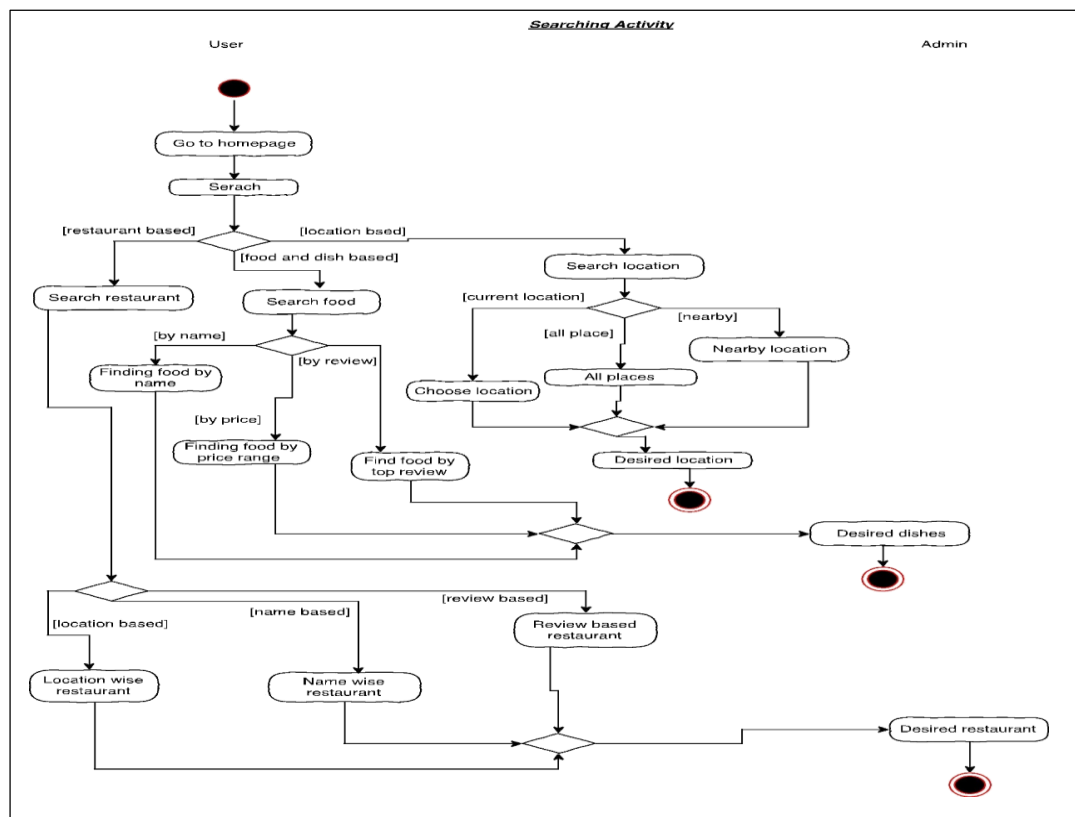
Figure – 5: Searching Activity
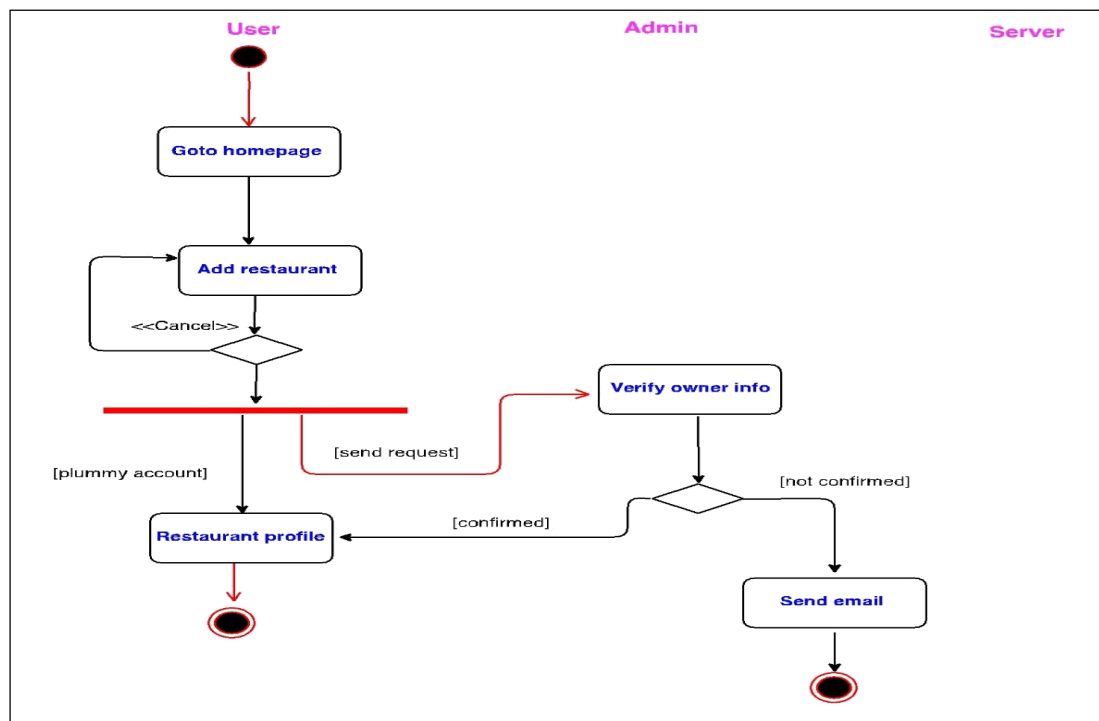
Figure – 6: Restaurant Account Approval Activity
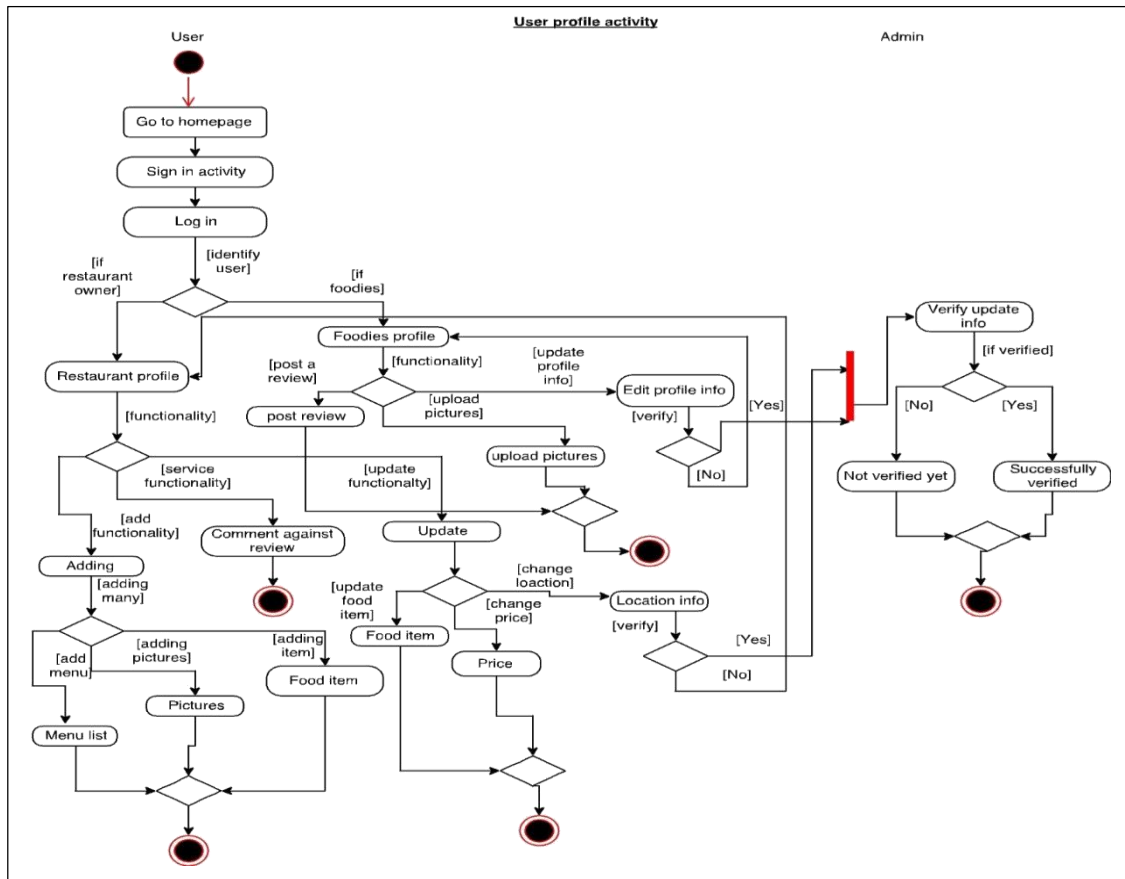
Figure – 7: User Profile Activity
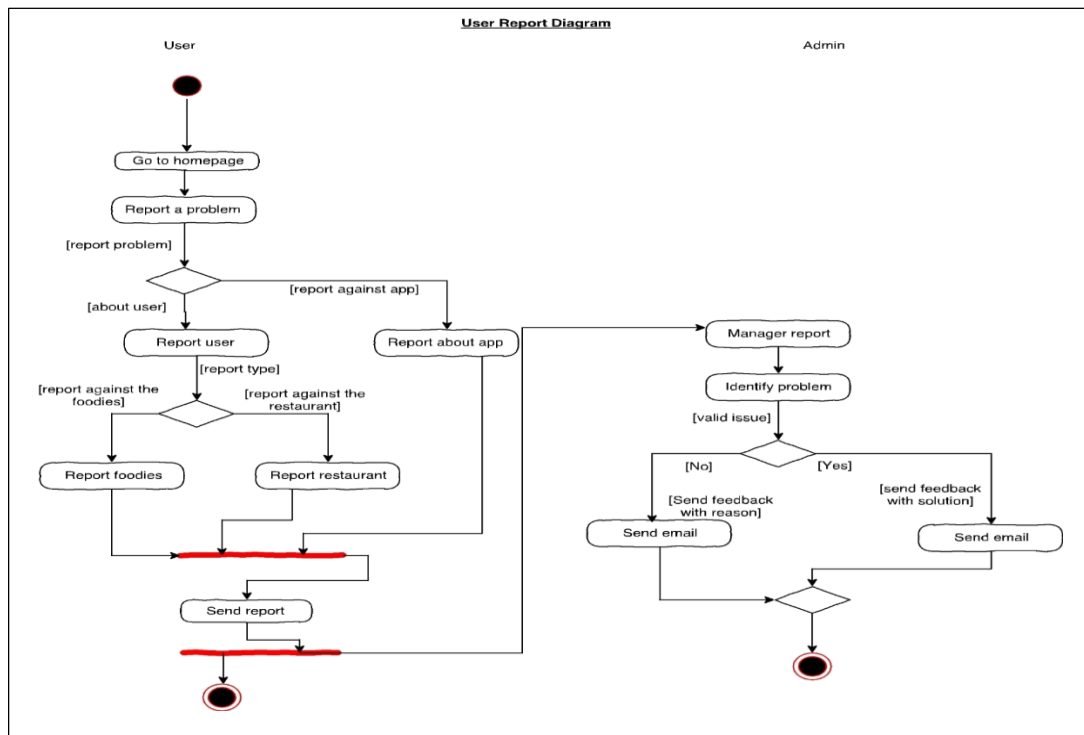
Figure – 8: User Report Activity

4.2.3 Entity Relation Diagram
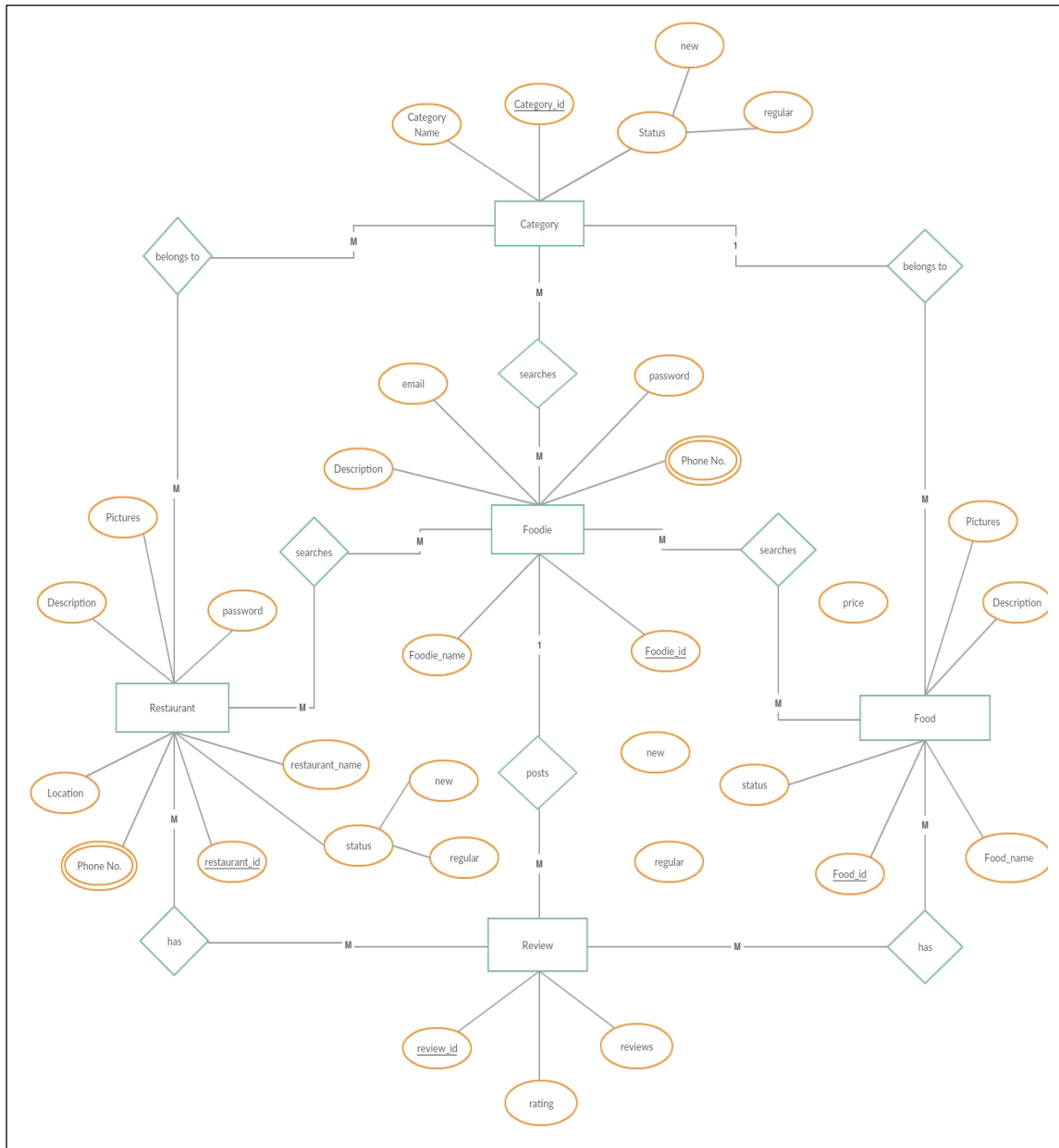
Figure – 9: ER diagram

4.3 Data Dictionary

Table-5: Image Gallery

Database Table Name: Image Gallery						
Column Name	**DataType**	**Nullable**	**Default Value**	**Auto Increment**	**Key**	**Connected With**
Image_id	integer	no	No	Yes	Primary	
Image	blob	no	No	no		
RESTAURANT_ID	integer	no	No	no	Foreign	Table Restaurant Column Col1

Table-6: Restaurant

Database Table Name: Restaurant						
Column Name	**DataType**	**Nullable**	**Default Value**	**Auto Increment**	**Key**	**Connected With**
RESTAURANT_ID	integer	no	No	Yes	Primary	
RESTAURANT_NAME	Varchar (255)	no	No	no	Unique	
RESTAURANT_EMAIL	Varchar (255)	no	No	no		
RESTAURANT_PASSWORD	Varchar (255)	no	No	no		
OWNER_TYPE	Varchar (255)	no	No	no		
PHONE_NUMBER	integer	no	No	no		
RESTAURANT_ADDRESS	Varchar (255)	no	No	no		
ACCOUNT_STATUS	Varchar (255)	no	No	no		
RESTAURANT_IMAGE	blob	no	yes	no		
RESTAURANT_RATING	Double (8,2)	no	No	no		
RESTAURANT_STATUS	Varchar (10)	no	No	no		
OPEN_TIME	Varchar (20)	no	No	no		
CLOSE_TIME	Varchar (20)	no	No	no		
TYPE	Varchar (255)	no	yes	no		

Table-7: Cuisine

Database Table Name: cuisine						
Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
cuisine_id	Integer	no	No	Yes	Primary	
cuisine_name	Varchar(20)	no	Yes	no		
Type	Varchar(255)	no	Yes	no		

Table-8: Selected cuisine

Database Table Name: selected_cuisine						
Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
cuisine_id	integer	no	No	Yes	Primary	
cuisine_name	Varchar (20)	no	no	no	Foreign	Table cuisine Column Col2
RESTAURANT_ID	integer	no	no	no	Foreign	Table Restaurant Column Col1

Table-9: Users

Database Table Name: users						
Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
_user_id	integer	no	no	Yes	Primary	
user_email	Varchar(255)	no	no	no	unique	
user_password	Varchar(255)	no	no	no		
user_type	Varchar(50)	no	no	no		

Table-10: Food

Database Table Name: food						
Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
food_id	Integer	No	no	Yes	Primary	
food_name	Varchar(100)	No	no	No		
food_price	Double(5,2)	No	no	No		
food_rating	Double(5,2)	No	yes	No		
food_desc	Varchar(200)	No	no	No		
cuisine_id	Integer	no	no	No	Foreign	Table selected_cuisine Column Col1
Type	Varchar(255)	no	yes	No		

Table-11: Review table

Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
review_id	Integer	no	no	Yes	Primary	
reviewer_name	Varchar(255)	no	no			
review	Varchar(255)	no	no			
rating_number	Double(5,2)	no	no		Foreign	Table rating_table Column Col2
rating_id	Integer	no	no		Foreign	Table rating_table Column Col1

Table-12: Rating table

Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
rating_id	Integer	no	no	Yes	Primary	
rating_number	Double (5,2)	no	no	no		
_foodies_id	integer	no	no	no	Foreign	Table food Column Col1
RESTAURANT_ID	integer	no	no	no	Foreign	Table Restaurant Column Col1

Table-13: Foodies

Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
_foodies_id	integer	no	No	Yes	Primary	
foodies_name	Varchar(255)	no	No	no		
foodies_email	Varchar(255)	no	No	no	unique	
foodies_password	Varchar(50)	no	No	no		
foodies_phone_number	integer	no	No	no		

Database Table Name: food_rating_table						
Column Name	DataType	Nullable	Default Value	Auto Increment	Key	Connected With
food_rating_id	integer	No	no	Yes	Primary	
food_id	integer	No	no		Foreign	Table food Column Col1
cuisine_id	integer	No	no		Foreign	Table selected_cuisine Column Col1
RESTAURANT_ID	integer	No	no		Foreign	Table Restaurant Column Col1
food_rating	Double(5,2)	No	no		Foreign	Table food Column Col4

4.4 User Interface Design

Followings are images of some of our interfaces for this application:
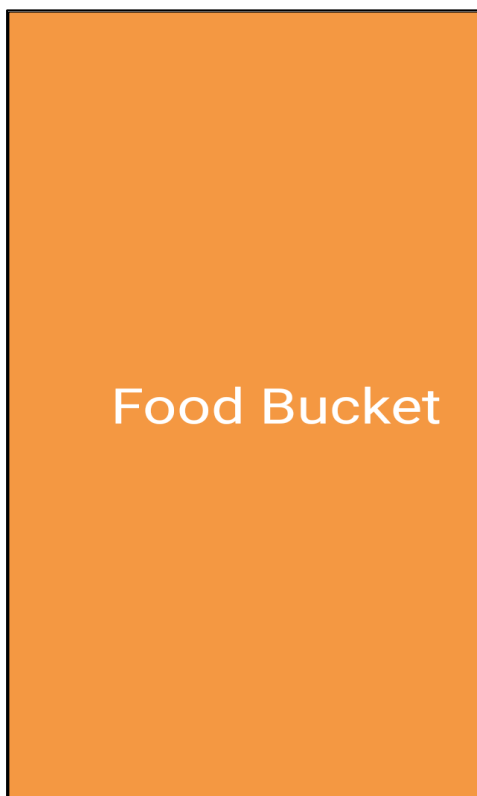
Figure – 10: App Launcher
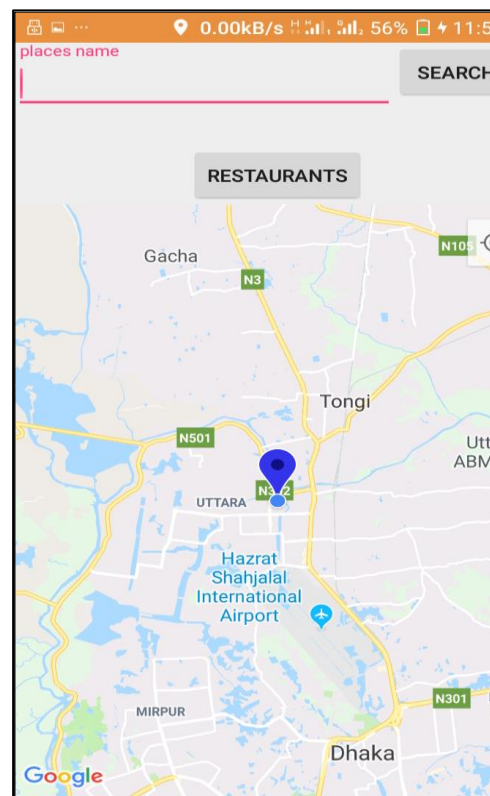
Figure – 11: Map Activity
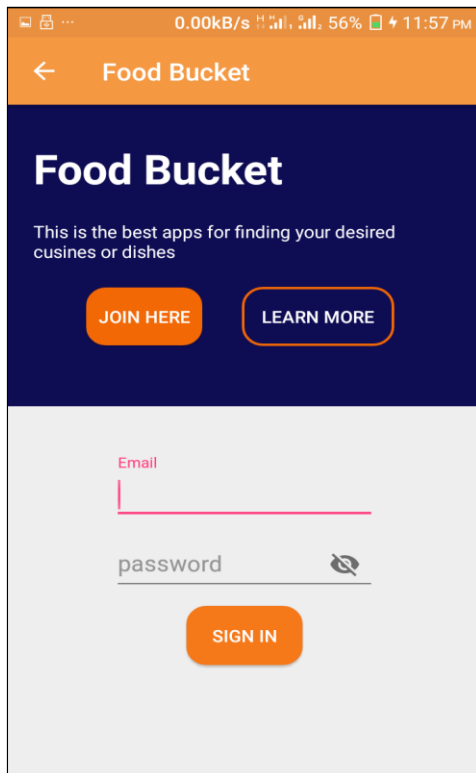
Figure – 12: Login Form

Figure – 13: Restaurant dashboard

Figure – 14: Restaurant View Profile
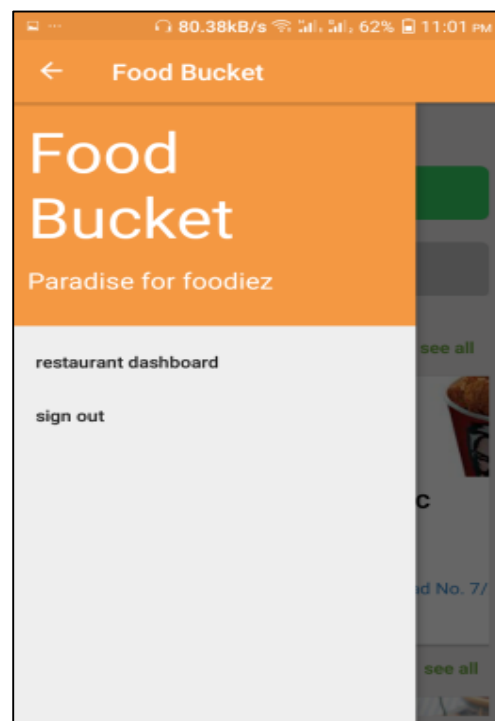
Figure – 15: Navigation drawer for restaurant owner after login
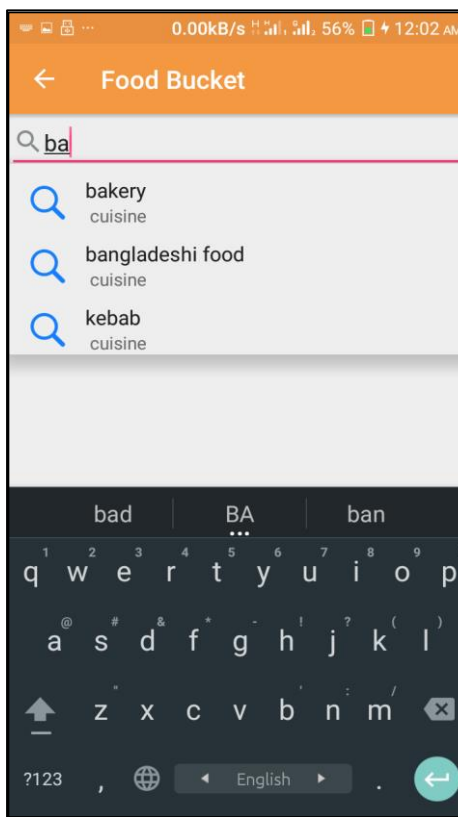
Figure – 16: Searching fields
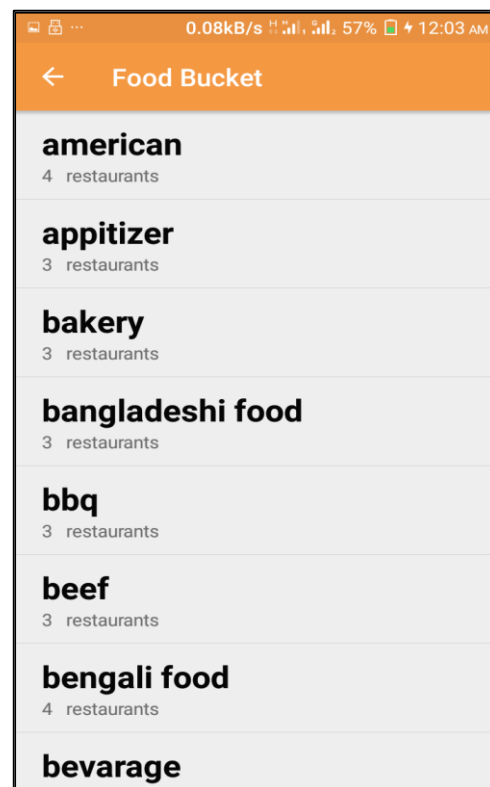
Figure – 17: All cuisines with total restaurant
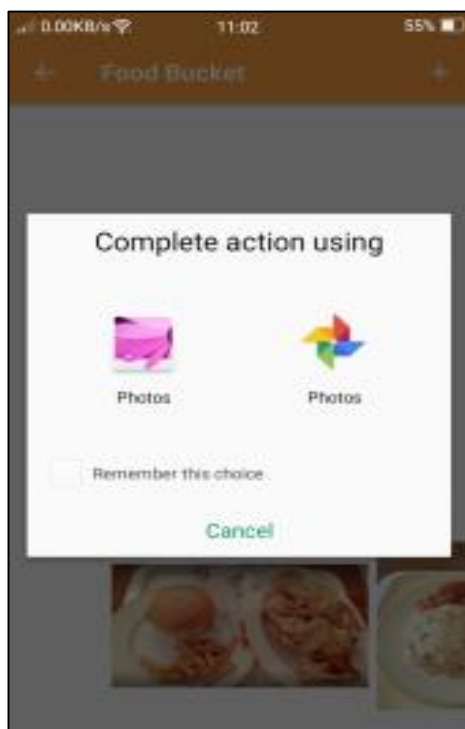
Figure – 18: Uploading picture for restaurants
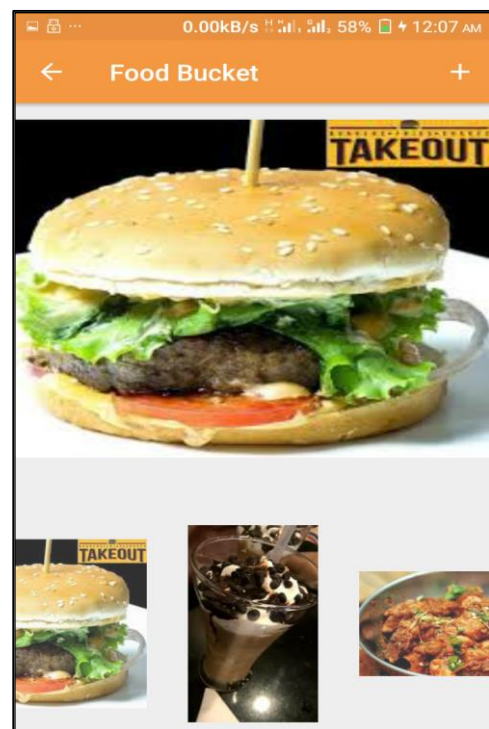
Figure – 19: Photo gallery (restaurant)
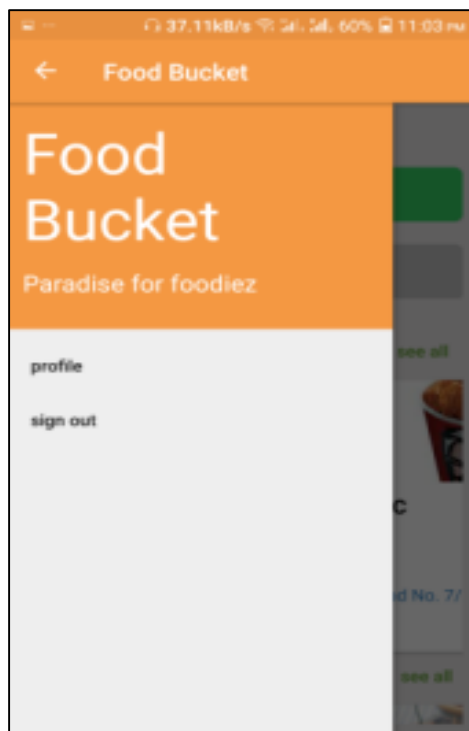
Figure – 20: Navigation drawer for foodies after login
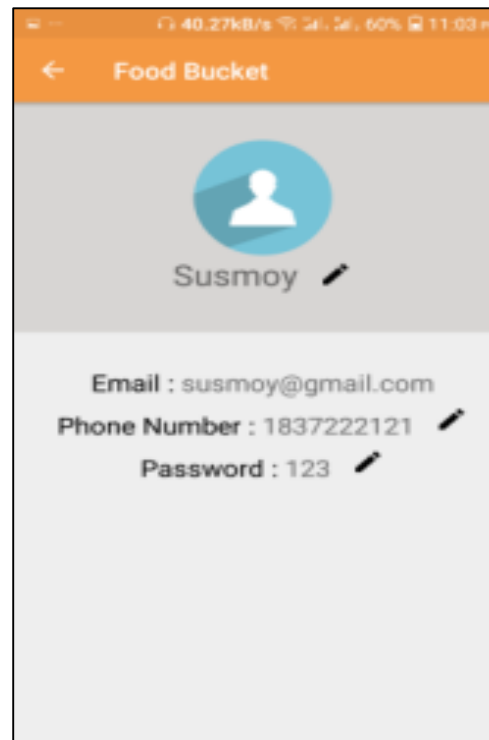
Figure – 21: Foodies profile
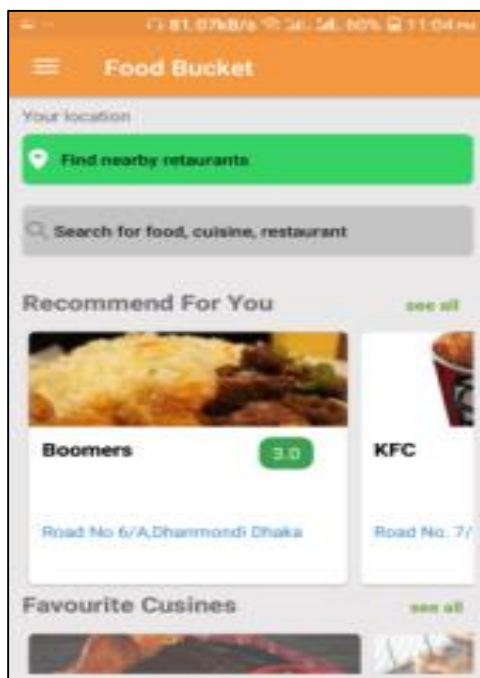
Figure – 22: Apps front view
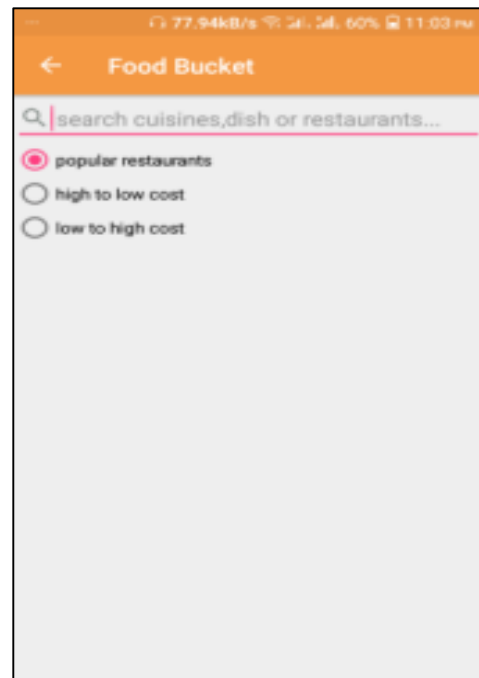
Figure – 23: Searching utilities

CHAPTER 5

FEATURE IMPLEMENTATIONS

5.1 Sign Up

Required for: restaurant owner, foodies
Description: A user need to sign up in the software to get all the facilities. So the user must give user name, email and password to create account.
Priority: High
Functional Requirements: System shall create a new account.

5.2 Login

Required for: restaurant owner, foodies
Description: Given that a user is registered he/she can login or get access to the server using email and password or directly using Facebook, Google plus.
Priority: High
Functional Requirements: System shall allow the user to use the account.

5.3 Change Password

Required for: restaurant owner, foodies
Description: If a user wants to change his/her password then the user will be able to request for a new password.
Priority: High
Functional Requirements: System shall send a view to access the user to change their password in their account.

5.4 Set Information

Required for: restaurant owner, foodies
Description: Users have to set their important information about themselves including phone numbers, emails.
Priority: High
Functional Requirements: System shall store all the important user data in order to give information to the profile.

5.5 Search Method Selection

Required for: guest user, restaurant owner, foodies
Description: Users can set the method of search. They just have to set how they want the search to be executed.
Priority: High

Functional Requirements: System will search according to user's choice and return the results.

5.6 Modify Search

Required for: guest user, restaurant owner, foodies
Description: Users will be able to modify their search whenever they want like if they want to filter their search by price, rating they can do it too.
Priority: Medium
Functional Requirements: System shall update the information if users wants to modify the search.

5.7 Show Reviews

Required for: guest user
Description: Users will be able to see the reviews of other's post.
Priority: Medium
Functional Requirements: System shall show reviews of users.

5.8 Show and post Reviews

Required for: foodies
Description: Users will be able to see the reviews of other's post and also can post review.
Priority: Medium
Functional Requirements: System shall show reviews of users.

5.9 Live Support

Required for: foodies, guest user
Description: Users can have live support whenever they want as it will be available most of the time.
Priority: High
Functional Requirements: System shall provide live support so that users will find help if they are facing any problems if they have any harass issues.

5.10 Select Search Location

Required for: guest user, foodies
Description: Users can search from their current location or can select a certain location to see the best foods and reviews around the location.
Priority: High
Functional Requirements: System shall display all the reviews and foods of selected locations whenever user search from a certain location.

5.11 Assign Own Food Rating

Required for: foodies
Description: Users can give a rating of any food from any restaurants.
Priority: High
Functional Requirements: System shall assign the review of users to the database. And after assigning it will be visible to others.

5.12 Cuisines selection for restaurants

Required for: restaurant owner
Description: Restaurant owners can select their desired cuisines from apps recommended cuisines
Functional Requirements: System shall provide the recommended cuisines to restaurant owner for selecting cuisines.

5.13 Modifying Account Information

Required for: restaurant owner, foodies
Description: Users or Restaurant owners can make changes to their information or address or contact number.
Priority: Medium
Functional Requirements: System shall update the information when user makes an information change request.

5.14 View Restaurant Information

Required for: guest user, restaurant owner, foodies
Description: Users shall able to see restaurant information provided by restaurant owner.
Priority: High
Functional Requirements: System shall display all the information provided by restaurant owner.

5.15 Remove Account

Required for: admin
Description: Users or restaurant owner can cancel their account anytime.
Priority: Medium
Functional Requirements: System shall remove the account from the system database but a phone verification will be required.

5.16 Uploading Pictures of Foods

Required for: restaurant owner, foodies
Description: Users can see the photos from restaurants profile gallery.
Priority: high
Functional Requirements: System shall show the picture of restaurants.

5.17 Delete cuisines

Required for: restaurant owner
Description: restaurant owner can be able to delete their selected cuisines.
Priority: high
Functional Requirements: System shall share other reviewer's review.

5.18 entering food item with name price and description

Required for: restaurant owner
Description: restaurant owner can insert food item name price and details.
Priority: high
Functional Requirements: System shall allow the comments in other reviewer's review.

5.19 One Tap Best Food Search

Required for: guest user, foodies, restaurant owner
Description: Users can tap the one tap best food search button to find the best food around with lowest price, highest price, highest rating and lowest rating.
Priority: Medium
Functional Requirements: System shall take the current location and find the best food around.

5.20 Sort by Price

Required for: foodies, guest user
Description: Users will be able to find the foods by sorting their price.
Priority: Medium
Functional Requirements: System shall sort the foods by price and return the results to users.

5.21 Sort by Restaurant Rating

Required for: foodies, guest user
Description: Users will be able to find the restaurants by sorting their rating.
Priority: Medium
Functional Requirements: System shall sort the foods by rating and return the results to users.

5.22 Sort by Food Rating

Required for: foodies, guest user
Description: Users will be able to find the foods by sorting their rating.
Priority: Medium
Functional Requirements: System shall sort the foods by rating and return the results to users.

5.23 Sort by food price

Required for: foodies, guest user
Description: Users will be able to find the foods by sorting their price range like low to high and high to low.
Priority: Medium
Functional Requirements: System shall sort the foods by rating and return the results to users.

5.24 Update food name, price and description

Required for: restaurant owner
Description: restaurant owner can update food item name, price and details.
Priority: Medium
Functional Requirements: System shall put reports to admins and they will verify and take preliminary actions.

5.25 User and restaurant owner can sign out

Required for: restaurant owner, foodies
Description: Users and restaurant owners will be able to sign out from the system.
Priority: Medium
Functional Requirements: System shall let the user to sign out.

CHAPTER 6

SOFTWARE TESTING PLAN

Project name is FOOD BUCKET and works on Android application. We are using three types of testing. They are:

- System testing
- Regression testing
- User Acceptance testing.

6.1 System Testing

We tested to the program by system testing to find the defects and noted severity of defects, summary of defects and commented on them. System testing is the testing of a complete and fully integrated software product. System tests the overall system operations as a whole, typically from a customer's perspective. System testing presumes that all components have been previously, successfully, integrated. System testing is done after integration testing is complete. System testing main focus is to verify that the customer requirements are fulfilled. System testing should test functional and non-functional requirements of the software. System testing is black-box testing and often done by independent testers.

Table-15: System testing

Test Case ID	Test Case	Tester	Severity of Defect	Summary of Defect	Comments
1	Application Icon	Hasan	none	none	none
2	Navigation Bar work	Hasan	none	none	none
3	Find nearby location work properly	Hasan	none	none	none
4	Display current location	Hasan	none	none	none
5	Search by location work	Hasan	none	none	none
6	Display nearby restaurants	Hasan	High	Stays in the find nearby location page	Not working
7	Click on Search cuisines, dish or restaurants	Hasan	none	none	none
8	Show suggestions	Hasan	none	none	none
9	Display categories	Hasan	none	none	none
10	Display Popularity	Hasan	none	none	none
11	Press high to low radio button	Hasan	none	none	none
12	Press low to high radio button	Hasan	none	none	none
13	Display Recommendation	Hasan	none	none	none
14	Click on restaurants Card view	Hasan	none	none	none
15	Make call button work properly	Hasan	none	none	none

					Stays in the	Not working
16	Location tracking	Hasan	medium	Stays in the restaurant page	Not working properly
17	Display Food menu button	Hasan	none	none	none
18	Display cuisines working	Hasan	none	none	none
19	Display Food rating	Hasan	medium	Stays in the restaurant page	After login give food rate
20	Display review button work	Hasan	none	none	none
21	Show all reviews	Hasan	none	none	none
22	Show my reviews	Hasan	none	none	none
23	Display gallery icon button work	Hasan	none	none	none
24	Click on add pictures button work	Hasan	none	none	none
25	Click on take photo button work	Hasan	none	none	none
26	Choose photo is not working without login	Hasan	none	none	none
27	Show Share icon work	Hasan	none	none	none
28	Share using	Hasan	Medium	Redirect on 27 no test case	Under construction
29	Without login cannot give rating	Hasan	none	none	none
30	Without login cannot give writing about	Hasan	none	none	none
31	Click on Favorite Cuisines	Hasan	none	none	none
32	Click on Cuisines name within existing restaurants	Hasan	none	none	No need
33	Display Restaurants list	Hasan	none	none	none
34	Display Top rated restaurants	Hasan	none	none	none
35	Display Top rated restaurants list	Hasan	none	none	none
36	Display Newly open restaurants	Hasan	none	none	none
37	Display Newly open restaurants list	Hasan	none	none	none
38	Display login required button	Hasan	none	none	none
39	Press login button work	Hasan	none	none	none
40	Press join here button	Hasan	none	none	none
41	Properly show Email: text field	Hasan	none	none	none
42	Properly show Username: text field	Hasan	none	none	none
43	Properly show Password: text field	Hasan	none	none	none
44	Properly show Phone number: text field	Hasan	none	none	none
45	Give phone number	Hasan	High	Don't show error message	Country phone code is not working
46	Email verification	Hasan	none	none	none
47	Sign up button is not working without fill up the requirements	Hasan	none	none	none
48	Sign up button work	Hasan	none	none	none
49	Click on Learn more button work properly	Hasan	none	none	none

50	Properly show Email: text field	Hasan	none	none	none
51	Properly show password: text field	Hasan	none	none	none
52	Email and password text field is blank then show error message	Hasan	none	none	none
53	Email text field is blank then show error message	Hasan	none	none	none
54	Password text field is blank then show error message	Hasan	none	none	none
55	If Email text field is not fill up and give password then show error message	Hasan	none	none	none
56	Give invalid email and password then pressed on sign in button show error message	Hasan	none	none	none
57	Give valid email and password then pressed on sign in button	Hasan	none	none	None
58	With login give food rating	Hasan	none	none	None
59	With login search cuisines, dish or restaurants	Hasan	none	none	None
60	With login find nearby restaurants work	Hasan	none	none	None
61	With login display current location	Hasan	none	none	None
62	With login show nearby restaurants	Hasan	High	Stays in the 61 no test case	Not working
63	Rate this place	Hasan	none	none	none
64	Give review	Hasan	none	none	none
65	With login give my review	Hasan	none	none	none
66	With login choose photo	Hasan	none	none	none
67	Give multiple review and rating in a restaurant	Hasan	none	none	none
68	Press back button	Hasan	none	none	none
69	Display Dashboard button	Hasan	none	none	none
70	Press Dashboard button	Hasan	none	none	none
71	Editing username	Hasan	none	none	none
72	Editing phone number	Hasan	none	none	none
73	Editing password	Hasan	none	none	none
74	Edit after press edit button	Hasan	none	none	none
75	Press back button	Hasan	none	none	none
76	Display Sign out button	Hasan	none	none	none
77	Click on sign out button work properly	Hasan	none	none	none
78	Display add a place button	Hasan	none	none	none
79	Click on add a place button	Hasan	none	none	none
80	Display restaurant name text field properly	Hasan	none	none	none
81	Display email text field properly	Hasan	none	none	none
82	Display address text field properly	Hasan	none	none	none
83	Display password text field properly	Hasan	none	none	none
84	Display Address text area properly	Hasan	none	none	none

85	Display restaurant owner or manager radio button properly	Hasan	none	none	none
86	Without fill up restaurants information click on submit button show error message	Hasan	none	none	none
87	Give invalid email show error message	Hasan	none	none	none
88	All text field fill up restaurants information then click on submit button work	Hasan	none	none	none
89	Display additional request	Hasan	none	none	none
90	Display Dashboard button and press this button work	Hasan	none	none	none
91	Editing restaurant name to edit button work properly	Hasan	none	none	none
92	Upload or update restaurant profile image	Hasan	none	none	none
93	Update phone number	Hasan	none	none	none
94	Update Restaurant address	Hasan	none	none	none
95	Update password	Hasan	none	none	none
96	Click on add menu item icon	Hasan	none	none	none
97	Click after selected cuisine button	Hasan	none	none	none
98	Restaurant owner/manager can select different cuisine	Hasan	none	none	none
99	Click on individual item from selected cuisine list	Hasan	none	none	none
100	New food item update	Hasan	none	none	none
101	Delete food item	Hasan	none	none	none
102	Click on open button in restaurants status	Hasan	none	none	none
103	Click on close button in restaurants status	Hasan	none	none	none
104	Without filling up opening time & closing time click on save time button not update new time	Hasan	none	none	none
105	Only filling up opening time click on save time button	Hasan	none	none	none
106	Only filling up closing time click on save time button	Hasan	none	none	none
107	Owner/manager login search cuisine, dish or restaurants	Hasan	none	none	none
107	Owner/manager login show current location	Hasan	none	none	none
108	Add image when login own profile of restaurant Owner/manager	Hasan	none	none	none
109	Cannot add image when login own restaurant profile of Owner/manager	Hasan	none	none	none
110	Click on restaurant rating from a restaurant logged in account	Hasan	none	none	none
111	Click on restaurant review from a restaurant logged in account	Hasan	none	none	none

112	Login own account of restaurant owner/manager can make call of other restaurants	Hasan	none	none	none		
113	Login own account of restaurant owner/manager can check food menu of other restaurants	Hasan	none	none	none		
114	Login own account of restaurant owner/manager display food item list under individual cuisine of other restaurants	Hasan	none	none	none		
115	Login own account of restaurant owner/manager using share	Hasan	Medium	Could not work	Can't share		
116	Press Sign out button work	Hasan	none	none	none		
117	Press back button giving option to user wants to exit or not	Hasan	none	none	none		
118	Click yes button then exit	Hasan	none	none	none		
119	Click no button then stay in food bucket application	Hasan	none	none	none		
120	Password hidden icon work properly	Hasan	none	none	none		

6.2 Regression Testing

Regression tests determine that the system remains stable as it cycles through the integration of other subsystems and through maintenance tasks. Testing that is performed after making a functional improvement or repair to the program. Its purpose is to determine if the change has regressed other aspects of the program. In this category, new tests are not designed; instead, test cases are selected from the existing pool and executed. Finally we tested our project by an own user and write report and also found the defects.

The table below summarizes the test cases employed for regression testing and the test results obtained for each test case:

Table-16: Regression testing

Test Case ID	Date Tested	Tester	Pass /Fail	Severity of Defect	Summary of Defect	Closed prior to Production Release ?	Comments
96	10/08/2018	Hasan	Pass	High	Without filling up any requirement but add food item.	Yes	Problem Solved.
19	10/08/2018	Hasan	Pass	Medium	Guest browser rated the food which is not in the requirement	Yes	Problem Solved
45	10/08/18	Hasan	Pass	High	Validation problem in foodies and restaurant owner/ manager give phone number	Yes	Problem solved
121	10/08/18	Hasan	Pass	Medium	Now can delete the pictures	Yes	Problem solved

73	11/08/18	Hasan	Pass	Medium	Now give old password again then show error message and give new password then it will update	Yes	Problem solved
58	11/08/18	Hasan	Pass	Medium	Give food rating it will show big fractional number but now it not show those types of number	Yes	Problem solved
63	11/08/18	Hasan	Pass	Medium	Here is review but again give review then it will be added no show error message but now show error message	Yes	Problem solved
64	11/08/18	Hasan	Pass	Medium	Here is rating but again give review then it will be added no show error message	Yes	Problem solved
122	11/08/18	Hasan	Pass	Medium	As a restaurant owner registration a foodie same email but login can't work now login as a foodies and also restaurant owner/ manager use same email	Yes	Problem solved

6.3 Acceptance Testing

Acceptance testing is Formal testing for product evaluation. Formal testing conducted to determine whether a system satisfies its acceptance criteria. Performed by customers/end users (preferably). Verifies functionality and usability of the software. Conducted prior to software being released to live operation. At this level of testing, the software should be in a sufficiently defect-free state to permit the emphasis to change. Acceptance testing is usually the last step before the user/customer takes the possession of the software.

The table below summarizes the test cases employed for user acceptance testing and the test results obtained for each test case:

Table-17: Acceptance testing

Test Case ID	Date Tested	Tester	Pass/ Fail	Severity of Defect	Summary of Defect	Closed prior to Production Release?	Comments
1	11/08/18	Hasan	Pass	none	none	Yes	none
2	11/08/18	Hasan	Pass	none	none	Yes	none
3	11/08/18	Hasan	Pass	none	none	Yes	none
4	11/08/18	Hasan	Pass	none	none	Yes	none
5	11/08/18	Hasan	Fail	high	Stays in the find nearby location page	Yes	Must be fixed 5
6	11/08/18	Hasan	Pass	none	none	Yes	none
7	11/08/18	Hasan	Pass	none	none	Yes	none
8	11/08/18	Hasan	Pass	none	none	Yes	none
9	11/08/18	Hasan	Pass	none	none	Yes	none
10	11/08/18	Hasan	Pass	none	none	Yes	none

11	11/08/18	Hasan	Pass	none	none	Yes	none
12	11/08/18	Hasan	Pass	none	none	Yes	none
13	11/08/18	Hasan	Pass	none	none	Yes	none
14	11/08/18	Hasan	Pass	none	none	Yes	none
15	11/08/18	Hasan	Pass	none	none	Yes	none
16	11/08/18	Hasan	Fail	medium	Stays in the restaurant page	Yes	Must be fixed 16
17	11/08/18	Hasan	Pass	none	none	Yes	none
18	11/08/18	Hasan	Pass	none	none	Yes	none
19	11/08/18	Hasan	Fail	medium	Stays in the restaurant page	Yes	Must be fixed 19
20	11/08/18	Hasan	Pass	none	none	Yes	none
21	11/08/18	Hasan	Pass	none	none	Yes	none
22	11/08/18	Hasan	Pass	none	none	Yes	none
23	11/08/18	Hasan	Pass	none	none	Yes	none
24	11/08/18	Hasan	Pass	none	none	yes	none
25	11/08/18	Hasan	Pass	none	none	Yes	none
26	11/08/18	Hasan	Pass	none	none	Yes	none
27	11/08/18	Hasan	Pass	none	none	Yes	none
28	11/08/18	Hasan	Fail	medium	Redirect on 27 no test case	Yes	Must be fixed 28
29	11/08/18	Hasan	Pass	none	none	Yes	none
30	11/08/18	Hasan	Pass	none	none	Yes	none
31	11/08/18	Hasan	Pass	none	none	Yes	none
32	11/08/18	Hasan	Pass	none	none	Yes	none
33	11/08/18	Hasan	Pass	none	none	Yes	none
34	11/08/18	Hasan	Pass	none	none	Yes	none
35	11/08/18	Hasan	Pass	none	none	Yes	none
36	11/08/18	Hasan	Pass	none	none	Yes	none
37	11/08/18	Hasan	Pass	none	none	Yes	none
38	11/08/18	Hasan	Pass	none	none	Yes	none
39	11/08/18	Hasan	Pass	none	none	Yes	none
40	11/08/18	Hasan	Pass	none	none	Yes	none
41	11/08/18	Hasan	Pass	none	none	Yes	none
42	11/08/18	Hasan	Pass	none	none	Yes	none
43	11/08/18	Hasan	Pass	none	none	Yes	none
44	11/08/18	Hasan	Pass	none	none	Yes	none
45	11/08/18	Hasan	Fail	high	Don't show any error message	Yes	Must be fixed 45
46	11/08/18	Hasan	Pass	none	none	Yes	none
47	11/08/18	Hasan	Pass	none	none	Yes	none
48	11/08/18	Hasan	Pass	none	none	Yes	none
49	11/08/18	Hasan	Pass	none	none	Yes	none
50	11/08/18	Hasan	Pass	none	none	Yes	none
51	11/08/18	Hasan	Pass	none	none	Yes	none
52	11/08/18	Hasan	Pass	none	none	Yes	none
53	11/08/18	Hasan	Pass	none	none	Yes	none
54	11/08/18	Hasan	Pass	none	none	Yes	none
55	11/08/18	Hasan	Pass	none	none	Yes	none
56	11/08/18	Hasan	Pass	none	none	Yes	none
57	11/08/18	Hasan	Pass	none	none	Yes	none

58	11/08/18	Hasan	Fail	medium	Rating in fractional	Yes	Does not Give proper rating
59	11/08/18	Hasan	Pass	none	none	Yes	none
60	11/08/18	Hasan	Pass	none	none	Yes	none
61	11/08/18	Hasan	Pass	none	none	Yes	none
62	11/08/18	Hasan	Fail	High	Stays in the 61 no test case	Yes	Must be fixed 62
63	11/08/18	Hasan	Fail	medium	Here is review but again give review then it will be added no show error message	Yes	Don't show any error message
64	11/08/18	Hasan	Pass	none	Here is rating but again give rating then it will be added no show error message	Yes	Don't show any error message
65	11/08/18	Hasan	Pass	none	none	Yes	none
66	11/08/18	Hasan	Pass	none	none	Yes	none
67	11/08/18	Hasan	Pass	none	none	Yes	none
68	11/08/18	Hasan	Pass	none	none	Yes	none
69	11/08/18	Hasan	Pass	none	none	Yes	none
70	11/08/18	Hasan	Pass	none	none	Yes	none
71	11/08/18	Hasan	Pass	none	none	Yes	none
72	11/08/18	Hasan	Pass	none	none	Yes	none
73	11/08/18	Hasan	Fail	medium	Old password not convert new password	Yes	Password not update
74	11/08/18	Hasan	Pass	none	none	Yes	none
75	11/08/18	Hasan	Pass	none	none	Yes	none
76	11/08/18	Hasan	Pass	none	none	yes	none
77	11/08/18	Hasan	Pass	None	None	Yes	None
78	11/08/18	Hasan	Pass	None	None	Yes	None
79	11/08/18	Hasan	Pass	None	None	Yes	None
80	11/08/18	Hasan	Pass	None	None	Yes	None
81	11/08/18	Hasan	Pass	None	None	Yes	None
82	11/08/18	Hasan	Pass	None	None	Yes	None
83	11/08/18	Hasan	Pass	None	None	Yes	None
84	11/08/18	Hasan	Pass	None	None	Yes	None
85	11/08/18	Hasan	Pass	None	None	Yes	None
86	11/08/18	Hasan	Pass	None	None	Yes	None
87	11/08/18	Hasan	Pass	None	None	Yes	None
88	11/08/18	Hasan	Pass	None	None	Yes	None
89	11/08/18	Hasan	Pass	None	None	Yes	None
90	11/08/18	Hasan	Pass	None	None	Yes	None
91	11/08/18	Hasan	Pass	None	None	Yes	None
92	11/08/18	Hasan	Pass	None	None	Yes	None
93	11/08/18	Hasan	Pass	None	None	Yes	None
94	11/08/18	Hasan	Pass	None	None	Yes	None
95	11/08/18	Hasan	Pass	None	None	Yes	None
96	11/08/18	Hasan	Pass	None	None	Yes	None

97	11/08/18	Hasan	Pass	None	None	Yes	None
98	11/08/18	Hasan	Pass	None	None	Yes	None
99	11/08/18	Hasan	Pass	None	None	Yes	None
100	11/08/18	Hasan	Pass	None	None	Yes	None
101	11/08/18	Hasan	Pass	None	None	Yes	None
102	11/08/18	Hasan	Pass	None	None	Yes	None
103	11/08/18	Hasan	Pass	None	None	Yes	None
104	11/08/18	Hasan	Pass	None	None	Yes	None
105	11/08/18	Hasan	Pass	None	None	Yes	None
106	11/08/18	Hasan	Pass	None	None	Yes	None
107	11/08/18	Hasan	Pass	None	None	Yes	None
108	11/08/18	Hasan	Pass	None	None	Yes	None
109	11/08/18	Hasan	Pass	None	None	Yes	None
110	11/08/18	Hasan	Pass	None	None	Yes	None
111	11/08/18	Hasan	Pass	None	None	Yes	None
112	11/08/18	Hasan	Pass	None	None	Yes	None
113	11/08/18	Hasan	Pass	None	None	Yes	None
114	11/08/18	Hasan	Pass	None	None	Yes	None
115	11/08/18	Hasan	Pass	None	None	Yes	None
116	11/08/18	Hasan	Pass	None	None	Yes	None
117	11/08/18	Hasan	Pass	None	None	Yes	None
118	11/08/18	Hasan	Pass	None	None	Yes	None
119	11/08/18	Hasan	Pass	None	None	Yes	None
120	11/08/18	Hasan	Pass	None	None	Yes	None

CHAPTER 7

CONCLUSION

7.1 Future Work

The project is still at its basic stage with the additional multi-tenant advantage. There are more things that are already proposed while designing the database but still not released in first version. In future, we are expecting to work on Map and Food order system to our application along with solving some obvious bugs.

7.2 Contribution to the Society

Food is one of the basic human needs, but with an emphasis modern society puts on eating healthy, sophisticated and yet quickly restaurants are often the place to go when we need a bite. Restaurant search apps like Food Bucket which helps you to find out best places to eat nearby. User can search their desire food and they can also see the price of each food. In this way, many middle class people or students can go the restaurant between their budgets. This application also can detect user position and it will suggests nearest restaurant first.

CHAPTER 8

REFERENCES

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