‘FoodBank’(Online Food Review System)

Version 1.0

A Software Requirements Engineering project submitted

By

Under the supervision of

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Software Requirements Specification

For

FoodBank

Online Food Review System

Version 1.0

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1. Introduction

This section gives a scope description and overview of everything included in this SRS document. Also the purpose for this document is described and a list of abbreviation and definitions is provided.

1.1Purpose

The purpose of this document is to give a detailed description of the requirements for the "Foodbank" software. 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 developing the first version of the system for the development team.

1.2 Document Conventions

This document follows MLA Format. Bold-faced text has been used to emphasize section and sub-section headings. Highlighting is to point out words in the glossary and italicized text is used to label and recognize diagrams.

1.3 Intended Audience and Reading Suggestions

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

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

Third 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.

1.4 Project Scope

The "Foodbank" is a GPS-based mobile application which helps people to find the restaurants based on the specification like dish, price 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 web-portal. This information will displayed to the user on the basis of foodies(user's) reviews and points. An administrator also uses the web-portal in order to administer the system and keep the information accurate. The administrator can, for instance, verify restaurant owners and manage user information.

Furthermore, the software needs both Internet and GPS connection to fetch and display results. All system information is 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.

2. Overall Description

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

2.1 Product 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.

2.2 Product 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.

2.3 User Characteristics

There are three types of users that interact with the system users 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 were given by users and foodies. This means that the user have to be able to search for desired dishes, choose a restaurant from that search outcome and then navigate to it. In order for the users to get a relevant search result there are multiple criteria 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.

2.4 Operating Environment

This system's application will be available on Android and iOS. But user's will be able to visit the website to get the service as well. User's 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 this two operating systems.

For Android:

Applicable Operating System	-	**Version**
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

For iOS:

Applicable Operating System	-	**Version**
iOS9	-	9.3.5
iOS10	-	10.2.1

For Windows:

Any Kind of Internet Browser (Chrome , Internet Explorer , Firefox)

2.5 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. Also, there may be a difference between what navigation features each of them provide.

CO-1: Only the verified users will be able to use the application to comment or post a food 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 leastJelly 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 MySQL Database.

CO-6: Both the web portal and the mobile application will be constrained by the capacity of the database. Since the database is shared between both application it may be forced to queue incoming requests and therefore increase the time it takes to fetch data.

CO-7: This application will only available in English language.

CO-8: Application itself will ensure the total security of user data.

CO-9: 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-10: 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 application it may be forced to queue incoming requests and therefore increase the time it takes to fetch data.

2.6 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 'FoodBank' SUPPORT' which will be available 24/7.

2.7 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: Resturant 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-3: Advertiser's payment can be done with bankcheque , bKash .

3. System Design

All the user stories, UML along with data dictionary will be shown and described in this section. UML contains use case diagrams, class diagrams, activity diagrams and entity relationship diagrams.

3.1 User Scenario

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

SL.	Sample Use Case	Actor	Corresponding user stories
1.	Sign Up	Restaurant Owner/Food Reviewer	As a restaurant owner/food reviewer , I want to sign up so that I can use the application.
2.	Login	Restaurant Owner/Food Reviewer	As a restaurant owner/food reviewer , I want to login so that I can use the application whenever I want.
3.	Request for password	Restaurant Owner/Food Reviewer	As a restaurant owner/ food reviewer, I want to request for my password if I forget it so that I can use the application again.
4.	Set Information	Restaurant Owner/Food Reviewer	As a restaurant Owner or a food reviewer I want to set the information about myself including my favorite foods and so that other users will know about them.
5.	Search Method Selection	Food Reviewer	As a food reviewer I can search in many ways about foods. By food category search , by location search etc.
6.	Modify search	Food Reviewer	As a food reviewer I can modify the search and can also filter the search results.
7.	Show Search History	Food Reviewer	As a food reviewer , I can see their search history to find previous searches.

8.	**Show Reviews**	**Food Reviewer**	**As a food reviewer ,I can see reviews of other's post and can also react to them .**
9.	**Live Support**	**Restaurant Owner/Food Reviewer**	**As a restaurant Owner or a food reviewer ,I can contact the live support 24/7.**
10.	**Select Search Locations**	**Food Reviewer**	**As a food reviewer , I can choose a specific location to search on that specific area for any desired food or restaurants.**
11.	**Assign Own Food Review**	**Food Reviewer**	**As a food reviewer I can give a review of any food from my account.**
12.	**Rate Review**	**Food Reviewer**	**As a food reviewer I can rate reviews of other reviewers or can rate my own review on scale of 10.**
13.	**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.**
14.	**View Restaurant Information**	**Restaurant Owner/Food Reviewer**	**As a restaurant Owner or a food reviewer I can see information of other restaurants and other reviewers review about the restaurant.**
15.	**Remove Account**	**Restaurant Owner/Food Reviewer**	**As a food reviewer 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 FoodBank's Admin.**
16.	**Uploading Picture of Foods**	**Food Reviewer**	**As a food reviewer I can upload pictures of my foods when I give a review.**
17.	**Share Reviews**	**Food Reviewer**	**As a food reviewer I can share a review of other reviewer.**
18.	**Comment In Reviews**	**Food Reviewer**	**As a food reviewer I can make comments in other reviewer's review or can comment in own review.**

19.	**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.**
20.	**Sort By Price**	**Food Reviewer**	**As a food reviewer I can search and click sort by price to find the food with lowest or highest price.**
21.	**Sort by Rating**	**Food Reviewer**	**As a food reviewer I can search and click sort by rating to find the food with lowest or highest rating.**
22.	**Advertise Foods by Restaurant owners**	**Restaurant Owner**	**As a restaurant owner I can put my advertise to their website or application by paying FoodBank.**
23.	**Report Review**	**Food Reviewer**	**As a food reviewer I can report against any reviewers review if it abusive or violation to anyone.**
24.	**Sign Out**	**Food Reviewer/Restaurant Owner**	**As a restaurant Owner or a food reviewer I can sign out if the application.**

3.2UML

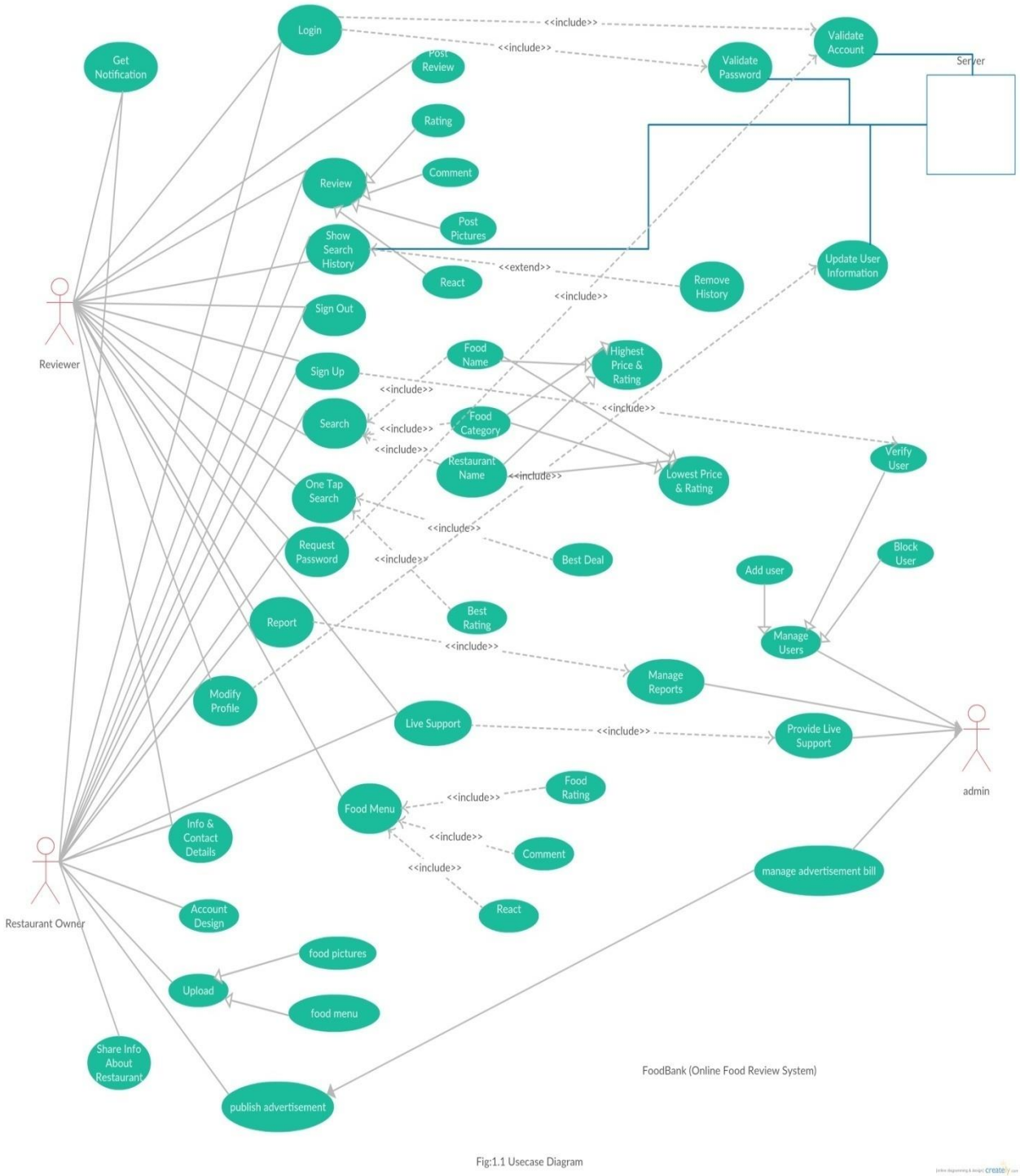


Fig:1.1 Usecase Diagram

Figure 1.1 – 'FoodBank System [Use Case Diagram]

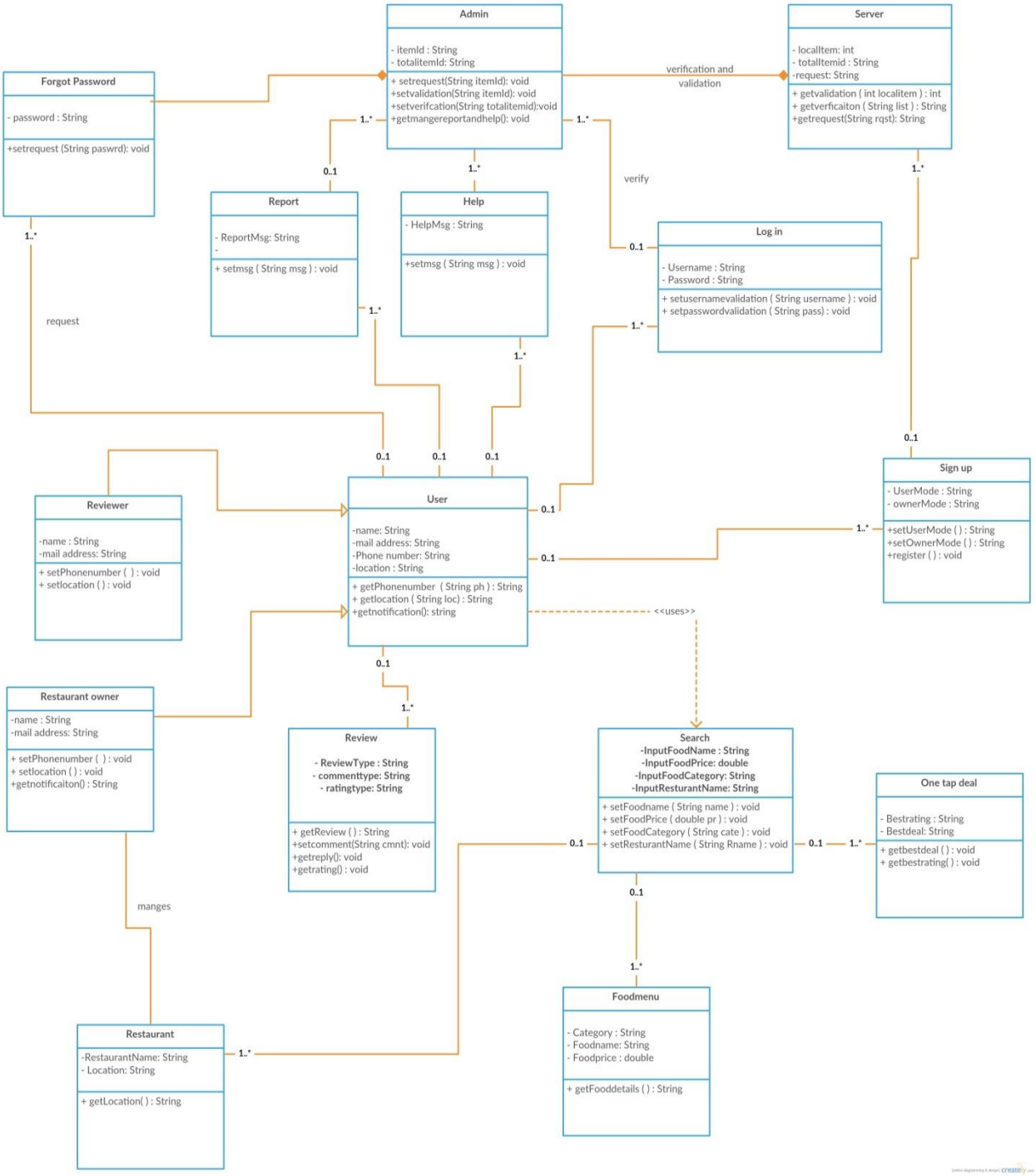


Figure 1.2 – 'FoodBank System [Class Diagram]

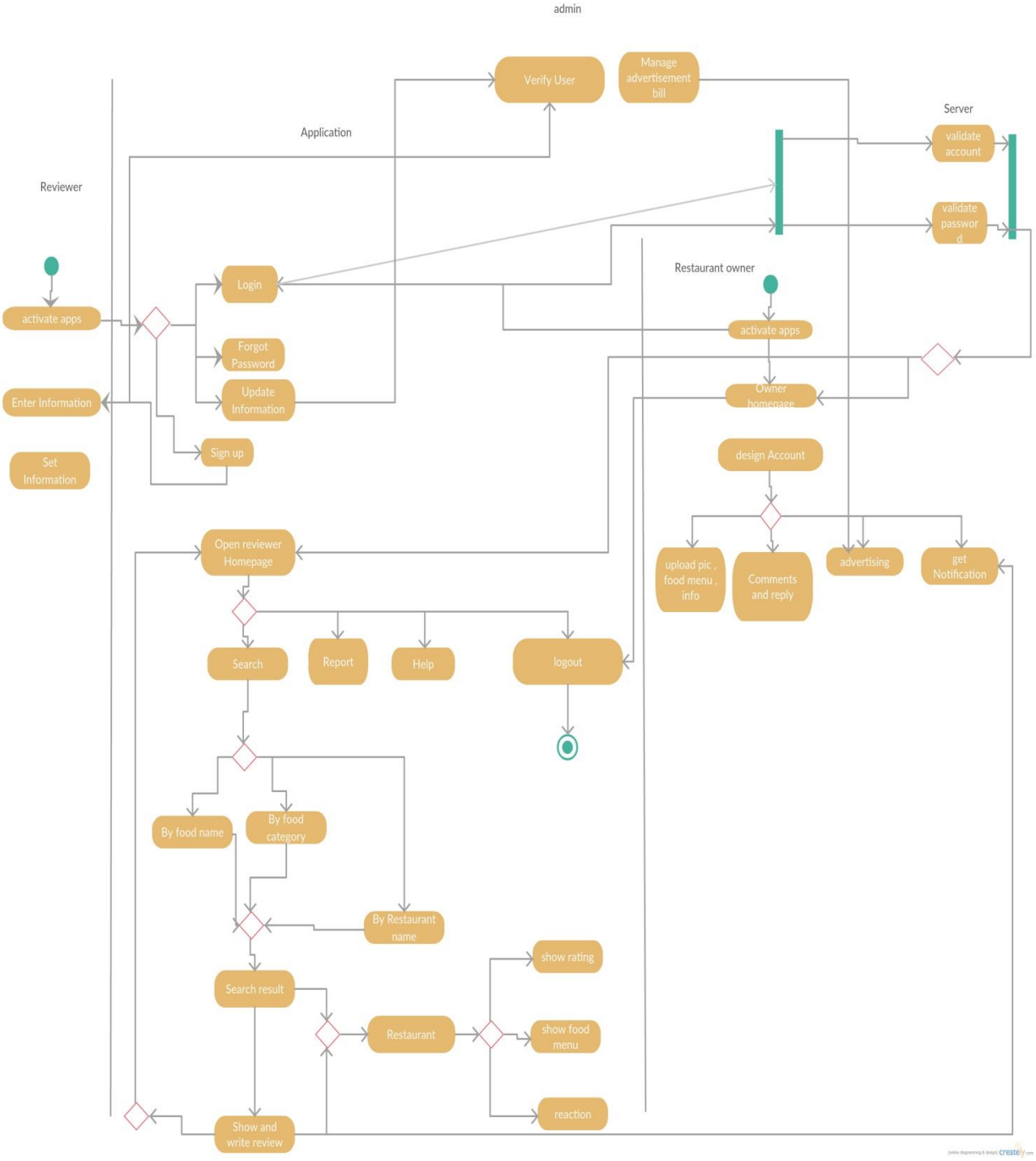


Figure 1.3 – 'FoodBank System [Activity Diagram]

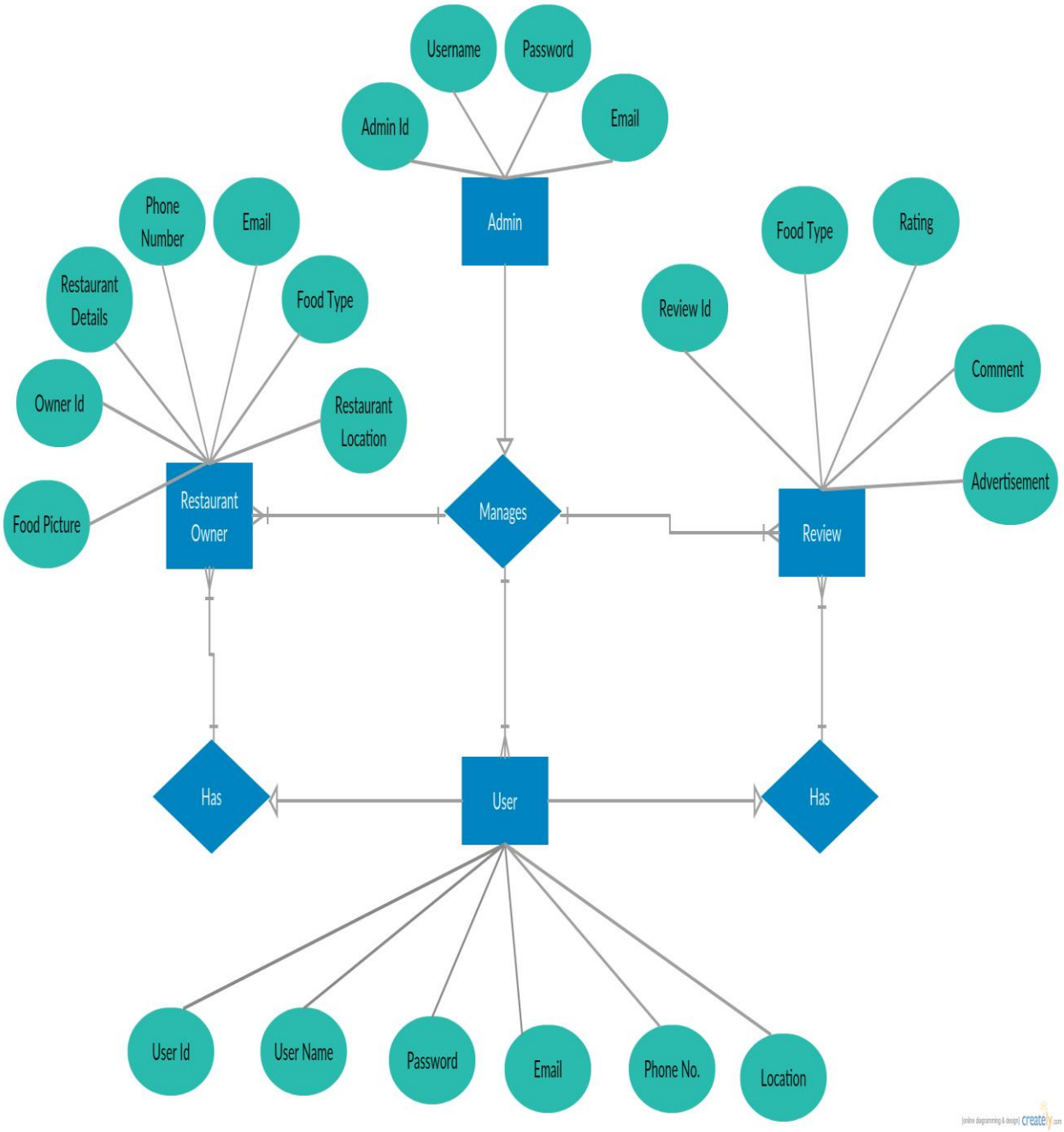


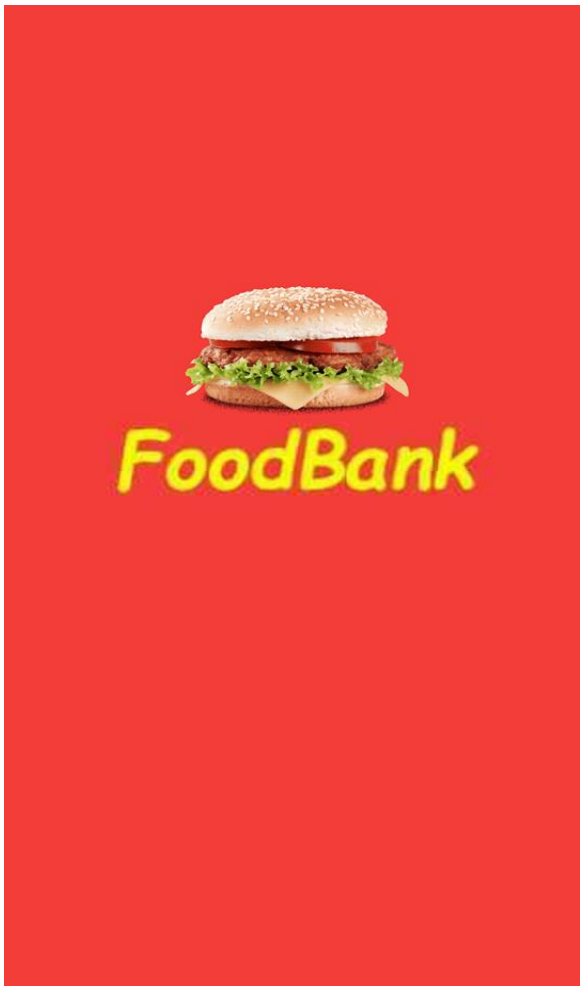
Figure 1.4 – 'FoodBank System [ER Diagram]

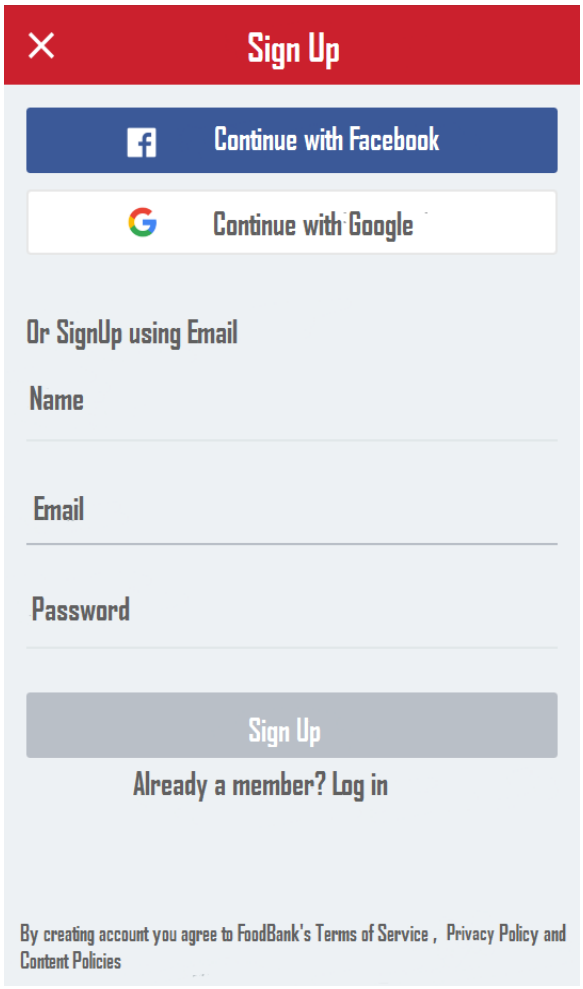
3.3 Data Dictionary

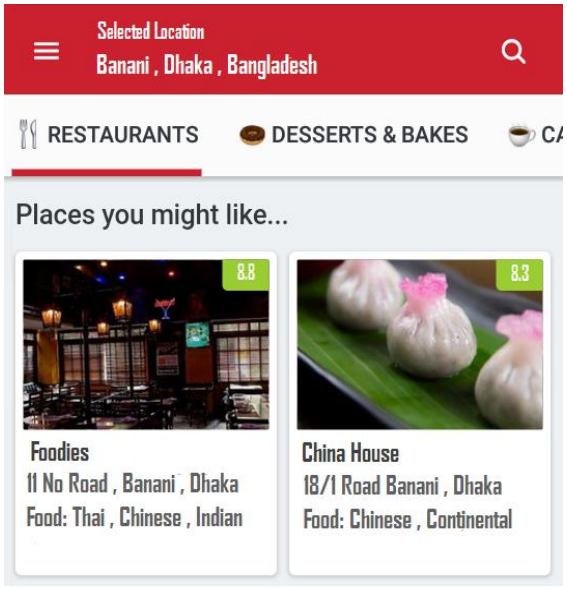
Data Dictionary will describe the contents, format and structure of a database and the relationship between its elements, used to control access to and manipulation of the database. Data dictionary of the ER diagram is given below:

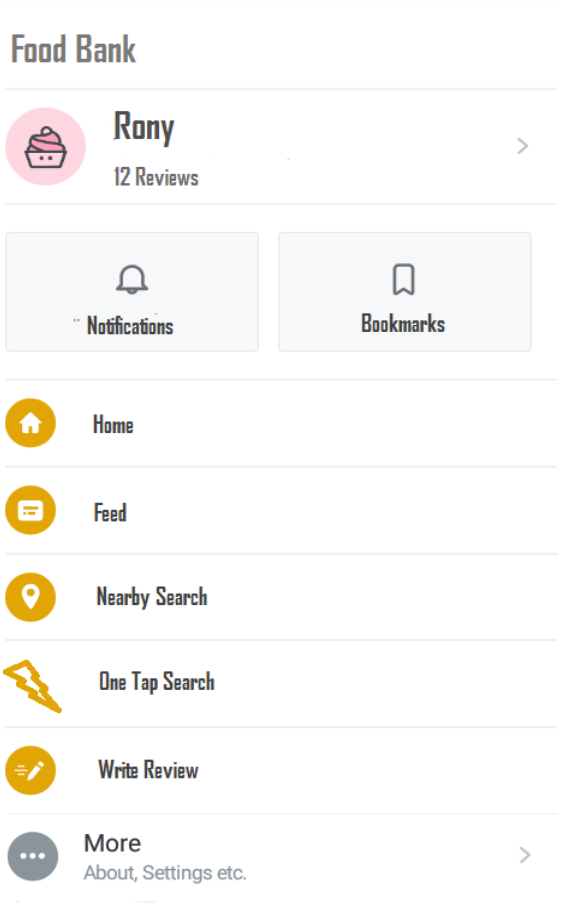
Entity	Attribute	Type/Size	Validation	Key
User	User_Id	**Number(7)**	100000-999999	Primary
User	User_Name	**Text(30)**	Required	
User	Password	**Number(20)**	Required	
User	Email	**Text(30)**	Required	
User	Phone_No	**Number(15)**	1-999999999999	
User	Location	**Text(30)**	Required	
Restaurant Owner	Owner_Id	**Number(7)**	100000-999999	Primary
Restaurant Owner	Owner_Email	**Text(30)**	Required	
Restaurant Owner	Owner_Phone_No	**Number(15)**	1-999999999999	
Restaurant Owner	Restaurant Details	**Text(500)**	Required	
Restaurant Owner	Restaurant Location	**Text(50)**	Required	
Restaurant Owner	Food_Type	**Text(30)**	Required	
Restaurant Owner	Food_Picture	**Image**		
Admin	Admin_Id	**Number(7)**	100000-999999	Primary
Admin	Admin_Username	**Text(30)**	Required	
Admin	Admin_Password	**Text(30)**	Required	
Admin	Admin_Email	**Text(30)**	Required	
Review	Review_Id	**Number(10)**	1-9999999999	Primary
Review	Food_Type	**Text(30)**	Required	
Review	Rating	**Float**	0.1-10.00	
Review	Comment	**Text(100)**	Required	
Review	Advertisement	**Image**		

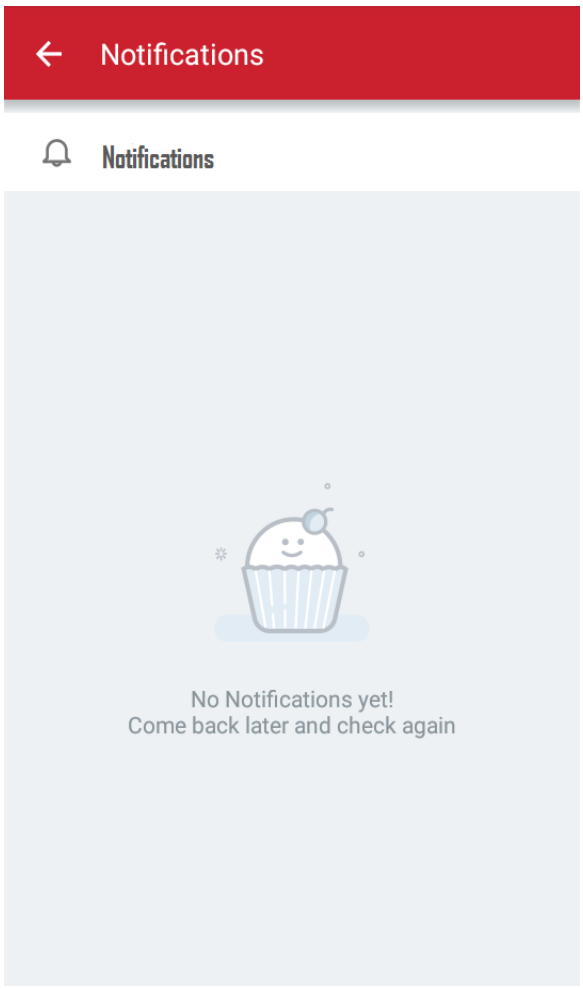
3.4 User Interface Design

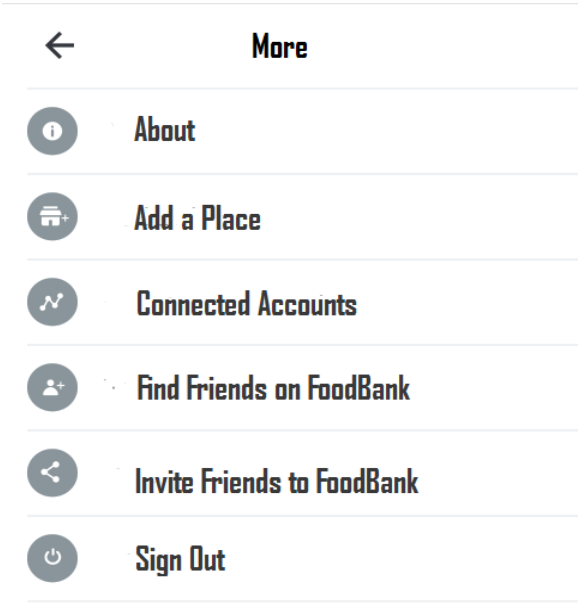


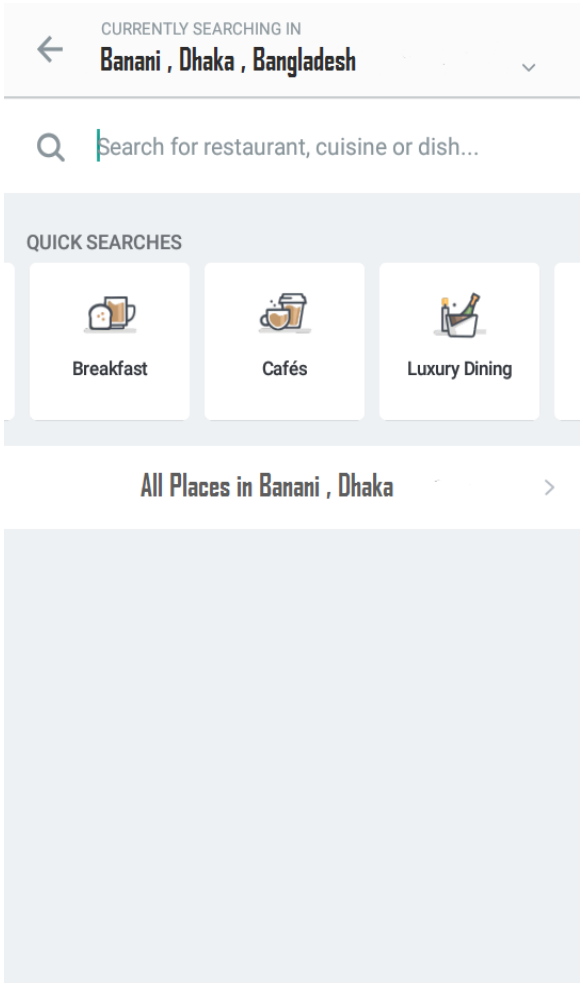


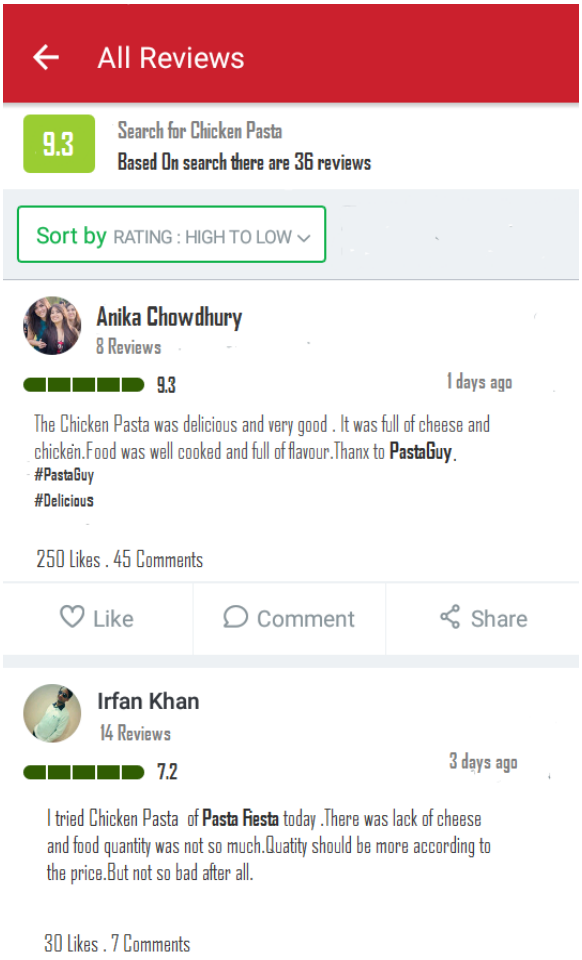

Selected Location
Banani , Dhaka , Bangladesh
RESTAURANTS
DESSERTS & BAKES
Places you might like...
8.8
Foodies
11 No Road , Banani , Dhaka
Food: Thai , Chinese , Indian
8.3
China House
18/1 Road Banani , Dhaka
Food: Chinese , Continental

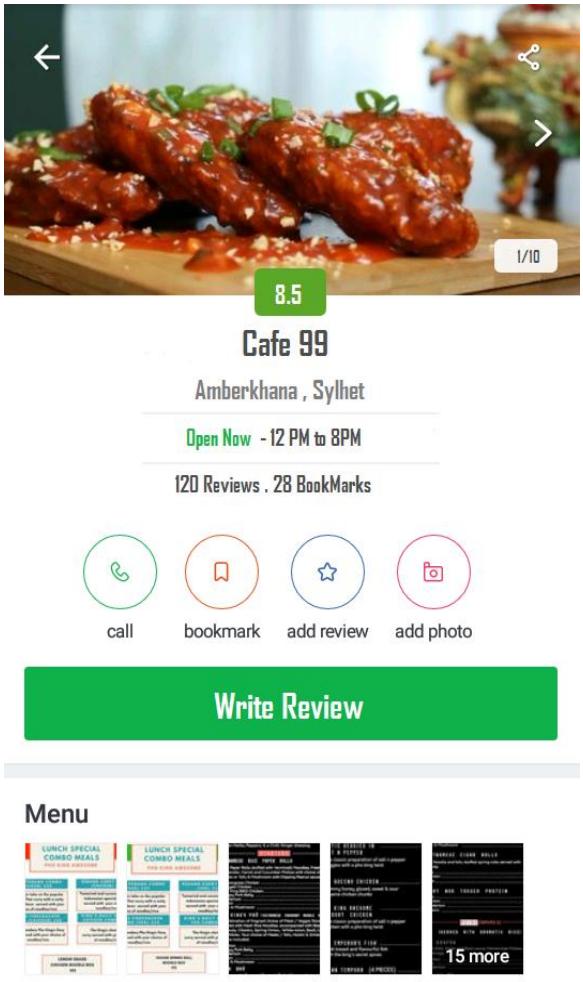

Food Bank
Rony
12 Reviews
Notifications
Bookmarks
Home
Feed
Nearby Search
One Tap Search
Write Review
More
About, Settings etc.

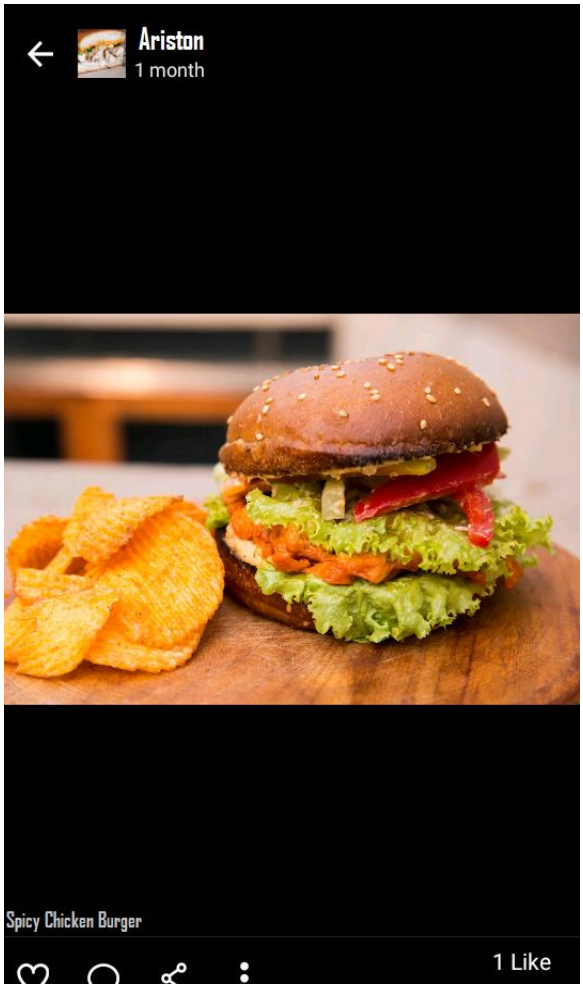

Notifications
Notifications
No Notifications yet!
Come back later and check again


More
About
Add a Place
Connected Accounts
Find Friends on FoodBank
Invite Friends to FoodBank
Sign Out


CURRENTLY SEARCHING IN
Banani , Dhaka , Bangladesh
Search for restaurant, cuisine or dish...
QUICK SEARCHES
Breakfast
Cafés
Luxury Dining
All Places in Banani , Dhaka


All Reviews
9.3
Search for Chicken Pasta
Based On search there are 36 reviews
Sort by RATING : HIGH TO LOW
Anika Chowdhury
8 Reviews
9.3
1 days ago
The Chicken Pasta was delicious and very good . It was full of cheese and chicken.Food was well cooked and full of flavour.Thanx to PastaGuy.
#PastaGuy
#Delicious
250 Likes . 45 Comments
Like
Comment
Share
Irfan Khan
14 Reviews
7.2
3 days ago
I tried Chicken Pasta of Pasta Fiesta today .There was lack of cheese and food quantity was not so much.Quatity should be more according to the price.But not so bad after all.
30 Likes . 7 Comments


1/10
8.5
Cafe 99
Amberkhana , Sylhet
Open Now - 12 PM to 8PM
120 Reviews . 28 BookMarks
call
bookmark
add review
add photo
Write Review
Menu
15 more


Ariston
1 month
Spicy Chicken Burger
1 Like

4. System Features

This section will give an overview of every features in this system. All the functionalities and every single details will be considered here.

4.1 Sign Up

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.

4.2 Login

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.

4.3 Request Password

Description: If a user forgets his/her password then the user will be able to request for a new password.

Priority: High

Functional Requirements: System shall send a PIN number for verification to access the user to their account.

4.4 Set Information

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.

4.5 Search Method Selection

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 users choice and return the results.

4.6 Modify Search

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.

4.7 Show Search History

Description: Users will be able to see their search history and their visited ports.

Priority: Medium

Functional Requirements: System shall show the history of user's search activities.

4.8 Show Reviews

Description: Users will be able to see the reviews of other's post and can also react to them.

Priority: Medium

Functional Requirements: System shall show reviews of users.

4.9 Live Support

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.

4.10 Select Search Location

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 .

4.11 Assign Own Food Review

Description: Users can give a review 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.

4.12 Rate Review

Description: Users can rate reviews of other reviewers on a scale of 10

Priority: Medium

Functional Requirements: System shall display the reviews and their ratings.

4.13 Modifying Account Information

Description: Users or Restaurant owners can make changers to their information or address or contact number.

Priority: Medium

Functional Requirements: System shall update the information when user makes a information change request.

4.14 View Restaurant Information

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.

4.15 Remove Account

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.

4.16 Uploading Pictures of Foods

Description: Users can end the parking time by a touch to the phone.

Priority: high

Functional Requirements: System shall stop the payment calculation and display the amount that they have to charge.

4.17 Share Reviews

Description: Users can be able to share other's reviews.

Priority: Low

Functional Requirements: System shall share other reviewer's review.

4.18 Comment in reviews

Description: Users can make comments in other reviewers review.

Priority: Low

Functional Requirements: System shall allow the comments in other reviewer's review.

4.19 One Tap Best Food Search

Description: Users can tap the one tap best food search button to find the best food around with lowest price ,highest price , highest rating ,lowest rating.

Priority: Medium

Functional Requirements: System shall take the the current location and find the best food around.

4.20 Sort By Price

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.

4.21 Sort By Rating

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.

4.22 Advertise Foods by restaurant owners

Description: Restaurant owners can put their advertisements on the 'Foodbank'.

Priority: High

Functional Requirements: System will show the restaurant advertisements on the site.

4.23 Report Review

Description: Users can report anyone's review if it is abusive to others.

Priority: Medium

Functional Requirements: System shall put reports to admins and they will verify and take preliminary actions.

4.24 Sign Out

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.

5. External Interface Requirements

5.1 User Interface

Food Hubweb based system has simple user interface, in line with the resents redesign of this application, with the home screen offering large swappable images of nearby restaurants that lead to their respective listings, in addition to options to browse restaurants and search for them by entering keywords for name, location, cuisine or dish and price.

The Browse Restaurants option takes you to a menu that offers mood-based recommendations. So, you can select if you're looking to get reasonable food price. Selecting the location is the next step, following which, the app offers a list of restaurants that match the criteria.

There's a separate screen for location based restaurants search through which you can sort restaurants based on the distance from your current location. You can apply additional filters such as ratings, whether the restaurant is open at the time of the search, cuisine, budget and other aspects.

There's also a 'Featured Content' section that offers lists such as top 10 restaurants, foodie leader board (for regular users), and featured reviews, among other content. Users can also post pictures for restaurants they've visited in case they just want to post picture reviews. Pictures can be posted through the restaurant's listing page or through a section within the app that allows users to upload reviews and pictures of restaurants.

Users can also add restaurants to their Wish list or mark them as ‘better' and favorite’s from their respective listings page.

This application provides information such as scanned menus, mapped coordinates, pictures, ratings, contact details and user reviews for restaurants across a number of locations in Bangladesh.

5.2 Software Interface

The mobile application communicates with the GPS application in order to get geographical information about where the user is located and the visual representation of it, and with the database in order to get the information about the restaurants which serves the best dishes implying on searched one . The communication between the database and the web portal consists of operation concerning both reading and modifying the data, while the communication between the database and the mobile application consists of only reading operations.

5.3 Hardware Interface

Since neither the mobile application nor the web portal have any designated hardware, it does not have any direct hardware interfaces. The physical GPS is managed by the GPS application in the mobile phone and the hardware connection to the database server is managed by the underlying operating system on the mobile phone and the web server.

5.4 Communications Interface

The communication between the different parts of the system is important since they depend on each other. However, in what way the communication is achieved is not important for the system and is therefore handled by the underlying operating systems for both the mobile application and the web portal.

6. Nonfunctional Requirements

Here all the other non-functional requirements performance, safety and security will be discussed. Also a short software quality description will be attached in the end.

6.1 Performance Requirements

Pe-1: The system and server of the application will be able to maintain 50 thousand users(reviewers) and 2000 thousands restaurant owners after the launch of the application.

Pe-2: Responses to queries shall take no longer then 5-6 seconds on backend.

Pe-3: The system will display the loading status of activity during action performed by the user.

Pe-4: Pages of the application shall be well designed and will maintain efficiency.

Pe-5: Primary Performance requirement of the application is speed of the Internet network of Mobile Phone or WiFi or broadband connection speed on desktop or laptop.

Pe-6: Application may get a bit slow if server is under heavy load and many actions are performed by multiple users at the same time.

6.2 Safety Requirements

Basically there are less safety requirements needed for this application except to create any fake id and not to disturb or harass any unknown person by abusive comments on their reviews otherwise actions might be taken according to the policy and regulations of the application. As user provide their mobile numbers, then the system will provide high security to that account. It will not be easy to hack others or do unauthorized events .

6.3 Security Requirements

1.All information's of a user data shall be encrypted and saved.

2.User will have to log in to application or website to perform any activity.

3.User will get the custom privacy experience.

4.Log in from multiple devices will be possible but verification must be completed individually in each device.

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8. References

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3. https://www.opentable.com/start/home

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5.https://www.zagat.com/

Business Rule

ID	Rule definition	Type of rules	Static or Dynamic	Source
BR-1	For every restaurant's top selected foods system shall provide unique numbers to be not mixed up during data retrieve	Constraint	Static	FoodBank
BR-2	All images of the desired dishes must include alternative text to meet accessibility requirements	Constraint	Static	FoodBank
BR-3	Website may not contain any HTML tags or attributes that are deprecated according to the HTML5 standard	Constraint	Static	Government rule
BR-4	If a customer search for a dish, then at the end of the search result system shall display dishes that similar to search one	Action enablers	Dynamic	FoodBank
BR-5	Every dish has a price which display along with the search	Fact	Static	FoodBank
BR-6	If there any bad reviews over a restaurant food or service then warning given to the restaurant owner	Inference	Dynamic	FoodBank
BR-7	Result must be shown according to search one	Constraint	Dynamic	FoodBank

BR-8	If any reviewers uses abusive comments on comment box, then his/her account shall be blocked	Inference	Dynamic	FoodBank
BR-9	From Ratings and reviews dish quality will be measured	Action enablers	Static	FoodBank
BR-10	Restaurant owner shall pay for their new dishes advertisements	Constraint	Dynamic	FoodBank