



COMSATS University Islamabad (CUI)

Assignment-02

CLO-2

**Software Requirement Specification
(SRS DOCUMENT)**

for

SAVE FOOD STUFF

Version 1.0

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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Revision History

Name	Date	Reason for Changes	Version

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Application Evaluation History

Comments (by committee) *include the ones given at scope time both in doc and presentation	Action Taken

Supervised by
Supervisor's Name

Signature_____

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1. Introduction

This section explains the main purpose of our project, scope and modules of our project and a short overview of our document.

1.1 Purpose

The main purpose of this document is brief description about the “Save food stuff application” which is primarily developed for the distribution of extra food from restaurants to different shelter homes in order to help poor and needy people and to avoid food wastage.

According to United Nations (unep, n.d.) [1], almost half of the fruits and vegetables produced go into waste each year. Similarly, 1/3rd of the food produced for consumption never gets eaten. If all the food currently getting thrown into the landfill every year was instead diverted into meals for those in need, we’d be able to feed as many as 1.8 billion people. Therefore, it is very important to come up with a solution that can avoid food waste and help feed the needy.

The purpose of this website to provide a platform where needy shelter homes/ households can get the extra food available at restaurants for free. This will help avoid food wastage and feed needy people for free. There is also an option during billing that if the member can afford, it can pay 25% or 50% for the food. After billing procedure, the restaurant delivers that food to the user. In this way this application will help the restaurant to reduce food waste and will help in feeding the needy and poor people world [2]. Moreover, it also keeps the shelter homes, NGOs and people updated about the food availability from time to time. It also provides an opportunity to the food receiver to give reviews about the restaurant.

To develop the application, this document is being organized for the project stakeholders. It will help the developers to understand the requirements and help them in the design process and give a blueprint of what the application will look like. It will provide the developers and project managers with the application’s flow along with use cases. The document will also help verify the requirements gathered by the developers from the company this application is being made for.

1.2 Scope

2. After downloading the application, if user is already registered then he/she will have to simply log in otherwise user will have to first sign up by entering all details including username, password along with document attachment which includes the monthly income and expenses of the user. After detail completion by the user, its request will be sent to admin displaying “your request is in process” to user. When the request is received by the admin, now its duty is to check the validation of the user’s attached document either he/she should be considered as needy or not. After that a notification will be displayed to user that “your registration has been completed” if the request was accepted.

3. After the successful registration now user will be able to see multiple options on the screen which includes “Find Food”, “Go to Setting” and “Give Reviews” as well. By selecting “**Find Food**” the user will be able to select nearby restaurants which currently have food available to donate. From there he/she will able to request the desire restaurant to get food easily.

4. When user select the “**Setting**” he/she can do multiple tasks which include “**How to use**” means if anyone has any problem relating to app usage then from here it can be easily solved. Secondly it has “**Profile Management**” which gives opportunity to the user to update his personal

information when needed. Thirdly, it has “**Activity**” option which contains that users’ record. Lastly, after using this app user has the opportunity to easily “**Log out**” his id from here to avoid privacy and security risks.

5. After that this app also has the feature of “**Giving Reviews**” by the receiver after getting the food from the restaurant to give their personal opinion about their services. User can give his reviews either by writing comments or giving stars as well.

6. Along with the sign up and log in option one more option is added named “**Donation**” it will not require any sign up option simply the purpose is that if someone wanted to donate money then that will be added there easily without any problem.

7. Another feature includes “**Restaurant Module**” its main purpose will be to check all incoming requests and serve them priority wise along with reducing the food from the availability list (i.e. initially food available was of 5 persons, after serving 2 of them its duty is to reduce that food from that list too that is 3 person left).

8. Lastly admin feature is also present whose purpose is to keep track of all the user’s activities. Admin can view requested orders, orders to be delivered and the records of the orders that are delivered already. However recent activity can also be seen by admin along other functionality.

8.1 Modules

- **User Profile:**

This module is used to login or getting yourself registered in the app which helps to Login by the user if he/she is already registered it otherwise he/she have to sign up by entering email, password and document attachment which includes monthly income and monthly expense as well. Admin have to verify these document. After that user can be logged in it. Along these two functionalities user can change its password after authenticating.

- **Donation:**

On the same page of login we have a donation menu where anyone can donate as much as they want to whatever restaurants/charity home they like. When donor goes to the donation restaurants list of all the restaurants mentioned.

- **Setting`:**

In setting module a menu is displayed to user which offer 4 different options to the user that are “How to use?” which helps the user to get know about how to use this app. “Profile management” its purpose is to facilitate the user to change his username, email and phone number. After the successful use of application user can also easily “Log out” for his/her security and privacy reasons. And the last “User History” keep the track of each order received or dispatched as well.

- **Find Food:**

After user registration user can have multiple option among them one is Find Food. By selecting this all the restaurants in the nearby locality will be mentioned that currently have food available. This restaurant list is based on the reviews priority. Restaurants with higher reviews will be in the top. After selecting the restaurant, user can request food per person. This request will also be accepted based on priority.

- **Delivery:**

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In this module the requested food will be delivered by the restaurant to the requester with very less delivery charges. Moreover, the requester will also be given an option to pay for the food only 10 or 15 percentage according to his own will. Otherwise there will be free delivery of the ordered food from restaurants to shelter homes.

- **Admin:**

- Admin can view all restaurants and members that are currently serving the food to the needy and deserving people. All the restaurant's and user's activity will displayed to the admin from here.
- Admin also have the authority of sending notification on successfully creating user's account after document validation.
- Admin will give rankings from 1-10 based on average document provided by the user that will tell whether the member is less or more deserving. On these basis admin will accepts the requests of the user that has currently received.
- Admin can view the ratings of all the restaurants that are serving to both needy and shelter homes.

- **Reviews:**

On the front page after the user login "Reviews" option is also present along find food option and settings. After receiving the food from the restaurants a user can also give reviews to the restaurant that boast the restaurant to top of the list of the restaurants that can be given donations.

- **Restaurant Module:**

In restaurant's profile, they can add amount of food they have (per person) and they can accept requests based on the priority basis. The member with higher ranking (i.e. more deserving) would be accepted first.

8.2 Overview

This document comprehensively describe the functionality of our system and its working on a micro-level. Firstly, the document will give a general overview of our system, its operating environment, the expected Users and limitation along its constraints. Secondly, the document explains in detail about the working and the requirement of whole system. For that purpose, we have also describe embedded context diagram along with use case of every user involved in our system. They are helpful for graphical display of all the involved features. Further more details are describe using descriptive use cases and functional requirements tables. Hence, lastly this document defines the quality goals of the application and its interface requirements which includes user interface, software and communication interface as well.

9. Overall Description

9.1 Product Perspective

The application will focus on helping everyday Users in finding restaurants that suit their budgets or provide food for free. The primary objective is to solve food wastage problem and feed those in need with that extra

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food and make sure that the user is actually needy and that is checked by the admin.

“OLIO – Share more Waste less”, “SWOT- Food Waste & Recovery”, “Food Waste Management system” are similar systems, but they are on a smaller scale, and do not authenticate the users. “Save Food Stuff” will extend all these minimizing their weaknesses and extracting unique features of all.

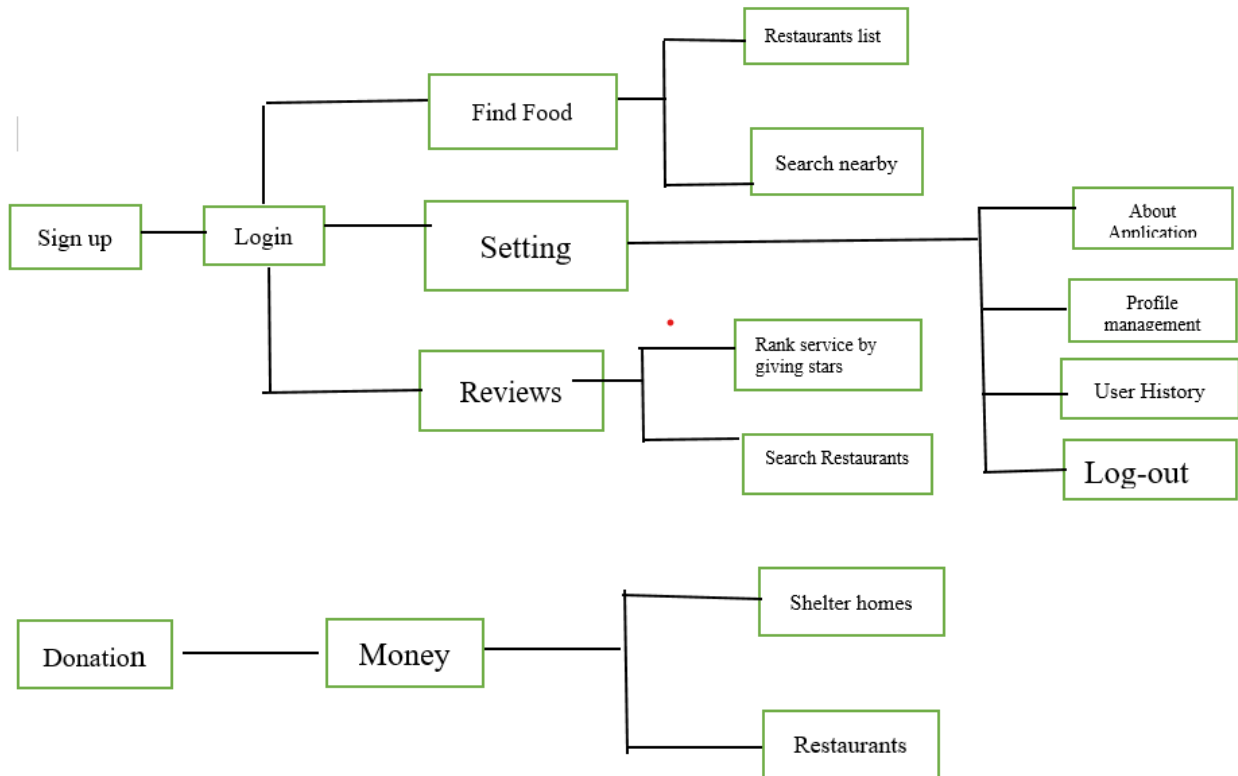


Figure 1: Save Food Stuff System

9.2 User classes and characteristics

Following table describe the user classes and characteristics.

User class	Description
User	A user is an applicant of this application. Firstly it must be registered via email, password and valid document to access the food from the restaurants after full authentication. After the successful log in user have three main characteristics which includes Find Food, Giving Reviews and Go to Setting

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	pane to avail more functionality (i.e. How to use, profile management, history and logout).
Admin	At the time of the user request to register the app admin shows the status “Your request is in the process” to user after a complete checking of document admin approved the request of user and user added successfully. Admin have the three main characteristics which includes adding a new member, removing a member and ranking of the restaurants respectively.
Donor	Along the sign up and login option one more option is added named “Donation” it will not require any sign up option simply the main focus of this option is that if donor wants to donate other than food he/she can easily donate here without any problem.
Delivery Boy	As the Restaurant Staff prepare orders for delivery, they will delivered the food and offer charges depending upon the distance. The Delivery boy will pick up the food and deliver it to the required place. After receiving the food reviews about the services will be given by the user.
Restaurant	Its main characteristic will be to check all incoming requests and serve them priority wise along with reducing the food from the availability list (i.e. initially food available was of 5 persons, after serving 2 of them its duty is to reduce that food from that list too that is 3 person left).

9.3 Operating Environment

The Following are the minimum operating environments for the software to operate:

- OE-1: The system must work with the following web browsers that support react i.e., Google Chrome.
- OE-2: Stable Internet connection will be required for the system to work properly.
- OE-3: The application will operate on any browser that supports HTTP1.0 or HTTP1.
- OE-4: The application will operate smoothly with at least 0.5 Mbps of internet speed.

9.4 Design and Implementation Constraints

Some Design and implementation constraints in software developments process are given below which includes:

- Language: In designing the software which language have you selected for?
- Timescales: In how much time software is to be implemented.

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- Testing: Which methods are include in testing of the software?
- Database: Which type of database is required?

10. Requirement Identifying Technique

This section describes the requirements identifying technique(s) which further help to derive functional requirements specification. The selection of the technique(s) will depend on the type of project. For instance,

- **Use case Diagram**

The Use Case diagrams w.r.t Actors are given below:

1.1

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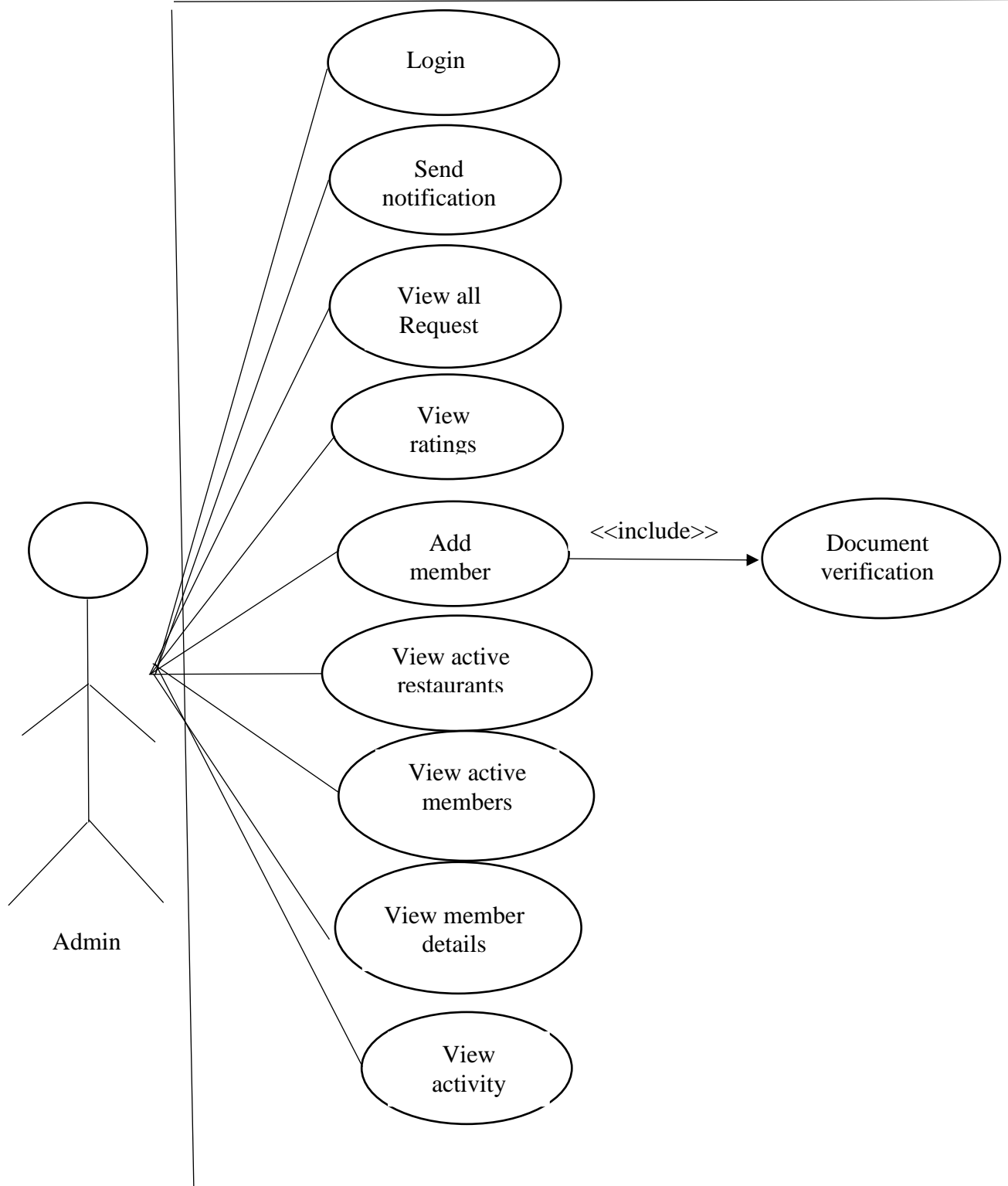


Figure 1: Use Case Diagram of Admin

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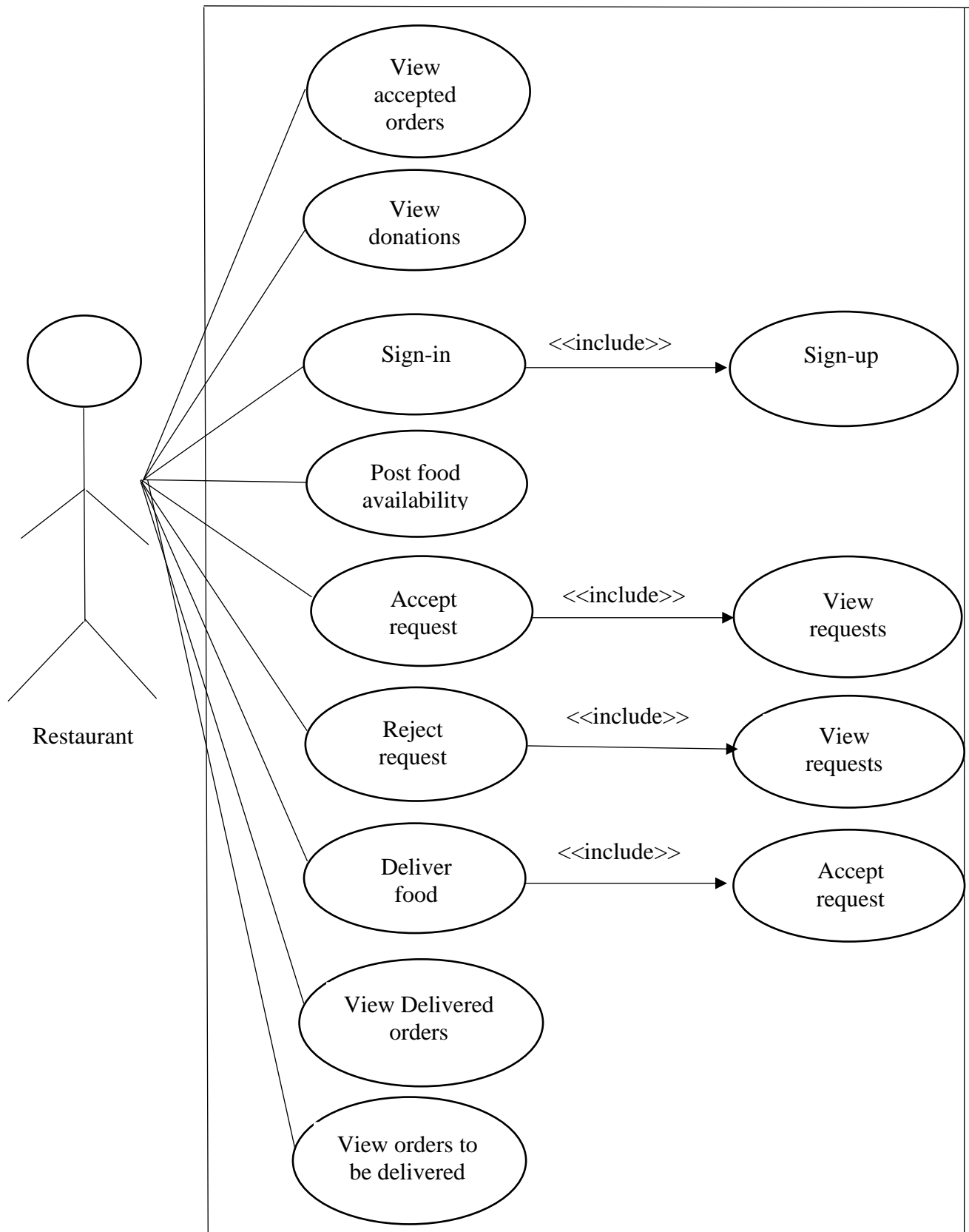


Figure 2: Use Case Diagram of Restaurant

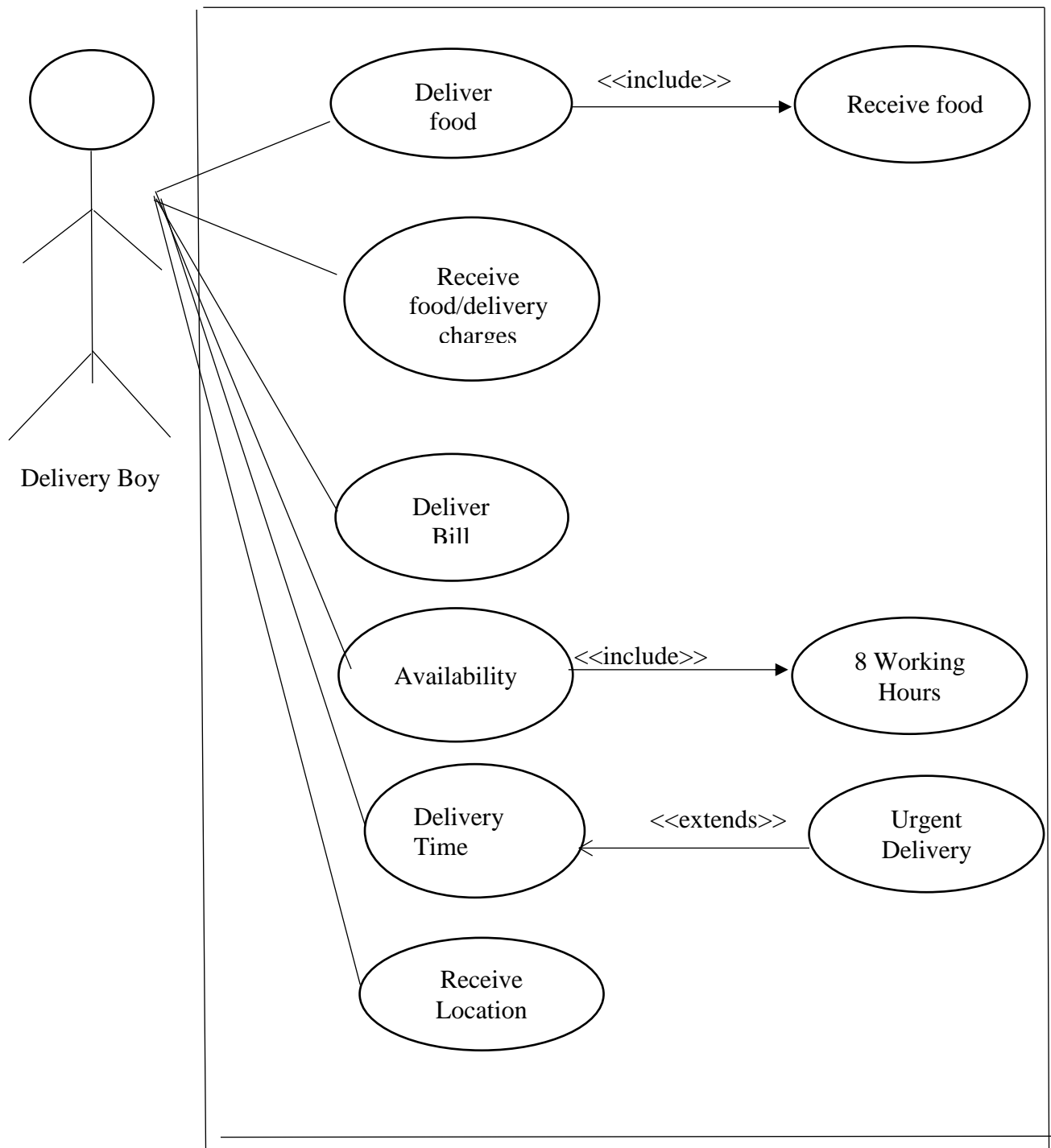


Figure 3: Use Case Diagram of Delivery boy

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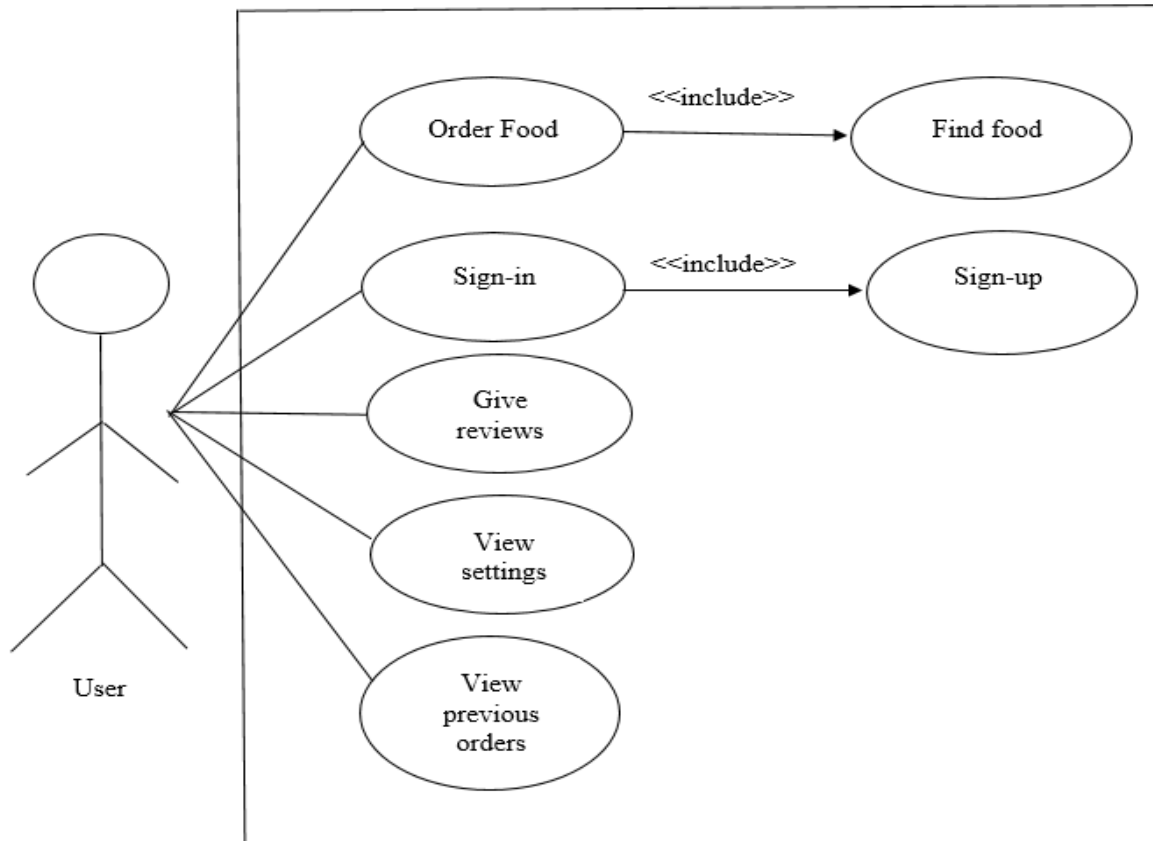


Figure 4: Use Case Diagram of User

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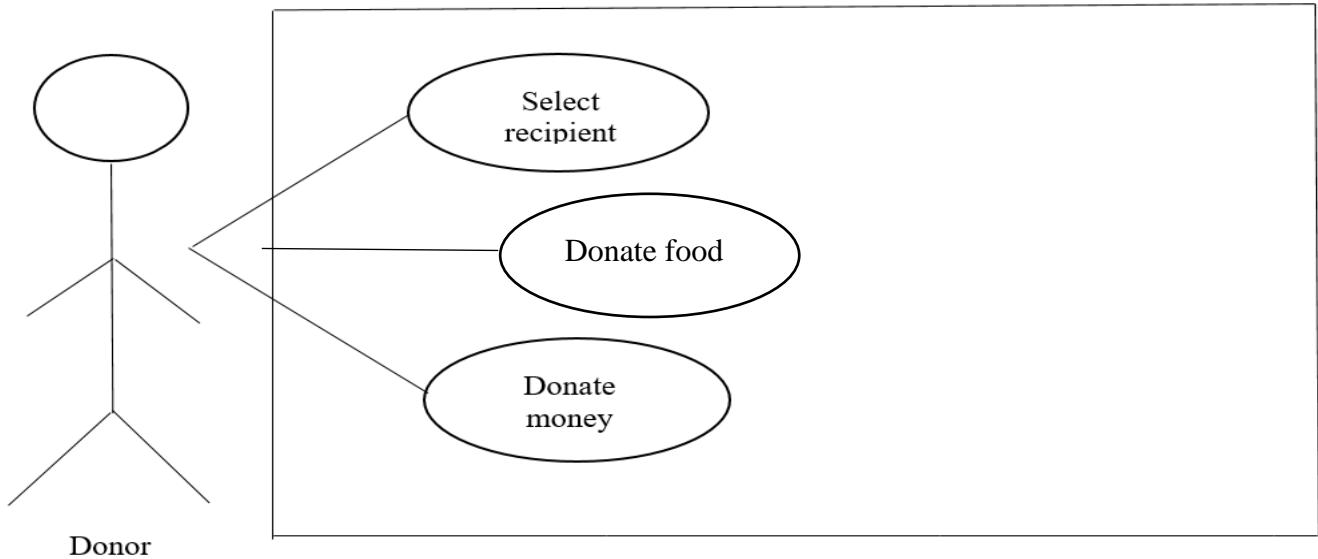


Figure 5: Use Case Diagram of Donor

Use Case Tables:

The following are the descriptive tables for the use cases “Admin”

Table 1: Document verification as Admin

Use Case ID:	UC-1.1
Use Case Name:	Document verification as Admin
Actor :	Admin
Description:	The Admin will verify all the documents attached with requests
Trigger:	The Admin clicks on the Document verification button
Preconditions	PRE-1:Strong internet connection is required
Post condition:	POST-1: Users registration request will either be accepted or denied
Normal Flow:	<ul style="list-style-type: none">• User clicks on “Document verification” button• Required credentials are checked thoroughly• Proceed or Decline request button is clicked
Alternative Flows:	N\A

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Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 2: Add member as Admin

Use Case ID:	UC-1.2
Use Case Name:	Add member as Admin
Actor :	Admin
Description:	The Admin will add member
Trigger:	The user clicks on the Proceed request button
Preconditions	PRE-1:Proceed request button was clicked in Document verification
Post condition:	POST-1: members will be added
Normal Flow:	<ul style="list-style-type: none">• Required credentials are checked thoroughly• Add Member button is clicked
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 3: Remove member as Admin

Use Case ID:	UC-1.3
Use Case Name:	Remove member as Admin
Actor :	Admin
Description:	The Admin will remove member permanently
Trigger:	The user clicks on the Remove Member button
Preconditions	PRE-1:Stable internet connection is required
Post condition:	POST-1: Members will be removed
Normal Flow:	<ul style="list-style-type: none">• Desired member is searched• Remove Member button is clicked
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 4: View Ratings as Admin

Use Case ID:	UC-1.4
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Use Case Name:	View Ratings as Admin
Actor :	Admin
Description:	The Admin will be able to view ratings that will help him in performing other actions
Trigger:	The user clicks on the View Ratings button
Preconditions	PRE-1: -
Post condition:	POST-1: Ratings of desired restaurant will be displayed
Normal Flow:	<ul style="list-style-type: none"> • View Ratings button is clicked • Ratings are displayed
Alternative Flows:	N/A
Exceptions:	N/A
Business roles:	N/A
Assumptions:	N/A

Table 5: Edit Member Details as Admin

Use Case ID:	UC-1.5
Use Case Name:	Edit Member Details as Admin
Actor :	Admin
Description:	The Admin will be able to edit details e.g. if a members registration was cancelled, its details needs to be edited
Trigger:	The user clicks on the Edit Member Details button
Preconditions	PRE-1: Desired member is registered already
Post condition:	POST-1: Details of the member are edited
Normal Flow:	<ul style="list-style-type: none"> • Edit Member Details button is clicked • Details are edited
Alternative Flows:	N/A
Exceptions:	N/A
Business roles:	N/A
Assumptions:	N/A

Table 6: View Member Activity as Admin

Use Case ID:	UC-1.6
Use Case Name:	View Member History as Admin
Actor :	Admin
Description:	The Admin will be able to view history of the member
Trigger:	The user clicks on the View Member History button
Preconditions	PRE-1: Desired member is registered already

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Post condition:	POST-1: History of the member is displayed
Normal Flow:	<ul style="list-style-type: none"> • Activity button is clicked • Whole record is displayed
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 7: Login as Admin

Use Case ID:	UC-1.7
UseCase Name:	Login as Admin
Actor :	Admin
Description:	The Admin will be able to sign in and avail services of the application
Trigger:	The user clicks on the login button
Preconditions	PRE-1: Strong internet connection is required
Post condition:	POST-1: Admin's account is logged in
Normal Flow:	<ul style="list-style-type: none"> • Admin clicks on "Login" button • Required credentials are entered • Login button is clicked
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 8: View All Members as Admin

Use Case ID:	UC-1.8
UseCase Name:	View All Members as Admin
Actor :	Admin
Description:	The Admin will be able to view list of all registered members with their details
Trigger:	The user clicks on the View Members button
Preconditions	PRE-1: Admin is logged in
Post condition:	POST-1: Details of all members are displayed
Normal Flow:	<ul style="list-style-type: none"> • View Members button is clicked • List of all members is displayed

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Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 9: Send Notification as Admin

Use Case ID:	UC-1.9
UseCase Name:	Send Notification as Admin
Actor :	Admin
Description:	The Admin will be able to send a notification(email/text) to the member
Trigger:	The user clicks on the Send Notification button
Preconditions	PRE-1: Admin is logged in PRE-1: Desired member is registered already
Post condition:	POST-1: A notification is sent
Normal Flow:	<ul style="list-style-type: none"> • Send Notification button is clicked • Desired member is searched • Notification is sent
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 10: View Active Restaurants as Admin

Use Case ID:	UC-1.10
UseCase Name:	View Active Restaurants as Admin
Actor :	Admin
Description:	The Admin will be able to see all the active restaurants.
Trigger:	The admin clicks on view active restaurants button.
Preconditions	PRE-1: Strong internet connection is required
Post condition:	POST-1: Admin's account is logged in
Normal Flow:	<ul style="list-style-type: none"> • By clicking on view active restaurants button. • Admin have a list of all the active restaurants. • Restaurants active status will be displayed to the admin.
Alternative Flows:	N\A
Exceptions:	N\A

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Business roles:	N\A
Assumptions:	N\A

Table 11: View Active User as Admin

Use Case ID:	UC-1.11
Use Case Name:	View Active User as Admin
Actor :	Admin
Description:	The Admin will be able to see all the active user.
Trigger:	The admin clicks on view active user button.
Preconditions	PRE-1: Strong internet connection is required
Post condition:	POST-1: Admin's account is logged in
Normal Flow:	<ul style="list-style-type: none">• By clicking on view active restaurants button.• Admin have a list of all the active users.• User active status will be displayed to the admin.
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Use Case Table 2: Restaurant

The following are the descriptive tables for the use cases “Restaurant”

Table 1: Sign Up as Restaurant

Use Case ID:	UC-2.1
Use Case Name:	Sign-Up as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to sign up and avail services of the application
Trigger:	The user clicks on the sign-up button
Preconditions	PRE-1:The restaurant must not already have an account
Post condition:	POST-1: Restaurant's account is created
Normal Flow:	<ul style="list-style-type: none">• User clicks on “Sign-up” button• Required credentials are entered• Sign-up button is clicked

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Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 2: Sign in as Restaurant

Use Case ID:	UC-2.2
Use Case Name:	Sign-in as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to sign in and avail services of the application
Trigger:	The user clicks on the sign-in button
Preconditions	PRE-1: Strong internet connection is required PRE-1: Restaurant must have an existing account
Post condition:	POST-1: Restaurant's account is logged in
Normal Flow:	<ul style="list-style-type: none">• User clicks on "Sign-in" button• Required credentials are entered• Sign-in button is clicked
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 3: View Donations as Restaurant

Use Case ID:	UC-2.3
Use Case Name:	View Donations as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to view all the donations made to the restaurant
Trigger:	The user clicks on the "View Donations" button
Preconditions	PRE-1: Strong internet connection is required PRE-2: Restaurant must be logged in
Post condition:	POST-1: Restaurant can view donations POST-2: Restaurant can accept orders accordingly
Normal Flow:	<ul style="list-style-type: none">• User clicks on "View Donation" button• All the donations are listed

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Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 4: Post Food as Restaurant

Use Case ID:	UC-2.4
Use Case Name:	Post Food as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to post amount of food available
Trigger:	The user clicks on the “Post Food” button
Preconditions	PRE-1: Strong internet connection is required
Post condition:	POST-1: Restaurant shows whether food is available or not
Normal Flow:	<ul style="list-style-type: none"> • User clicks on “Post Food” button • It enters the amount of food available (per person) • It can also decrease or increase this amount • It clicks on “Post”
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 5: View Accepted Orders as Restaurant

Use Case ID:	UC-2.5
Use Case Name:	View Accepted Orders as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to view list of all previous orders made to the restaurant
Trigger:	The user clicks on the “View Orders” button
Preconditions	PRE-1: Strong internet connection is required PRE-2: ID is logged in PRE-3: There are some orders to view
Post condition:	POST-1: Restaurant can view record of all orders
Normal Flow:	<ul style="list-style-type: none"> • User clicks on “View Orders” button • All the previous orders are listed

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Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 6: View Requests as Restaurant

Use Case ID:	UC-2.6
Use Case Name:	View Requests as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to view list of all requests made to the restaurant
Trigger:	The user clicks on the “View Requests” button
Preconditions	PRE-1: Strong internet connection is required PRE-2: ID is logged in
Post condition:	POST-1: Restaurant can view requests of all orders
Normal Flow:	<ul style="list-style-type: none">• User clicks on “View Requests” button• All the requests are listed• User either clicks on “Accept” or “Decline”
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	-

Table 7: Deliver Food as Restaurant

Use Case ID:	UC-2.7
Use Case Name:	Send to Deliver Food as Restaurant
Actor :	Restaurant
Description:	The restaurant will be able to deliver orders that were accepted
Trigger:	The user clicks on the “Deliver” button
Preconditions	PRE-1:strong internet connection is required
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none">• All the required data is filled• User clicks on “Send to Deliver” button
Alternative Flows:	
Exceptions:	-

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Business roles:	-
Assumptions:	-

Table 8: View Delivered Orders as Restaurant

Use Case ID:	UC-2.8
Use Case Name:	View Delivered Orders as Restaurant
Actor :	Restaurant
Description:	The Restaurant will be able to see all the delivered orders.
Trigger:	Delivered orders button is clicked.
Preconditions	PRE-1: Strong internet connection is required
Post condition:	POST-1: Restaurants account is logged in
Normal Flow:	<ul style="list-style-type: none">• View delivered orders button is clicked.• List of all the orders which are delivered by restaurants is displayed.
Alternative Flows:	N/A
Exceptions:	N/A
Business roles:	N/A
Assumptions:	N/A

Table 9: View Orders to be delivered as Restaurant

Use Case ID:	UC-2.9
Use Case Name:	View Orders to be Delivered as Restaurant
Actor :	Restaurant
Description:	The Restaurant will be able to see all the orders that are not delivered yet.
Trigger:	Orders to be delivered button is clicked.
Preconditions	PRE-1: Strong internet connection is required
Post condition:	POST-1: Restaurant's account is logged in
Normal Flow:	<ul style="list-style-type: none">• Orders to be delivered button is clicked.• List of all the orders which are not delivered by restaurants will be displayed.
Alternative Flows:	N/A
Exceptions:	N/A
Business roles:	N/A
Assumptions:	N/A

Use Case Table3: Delivery Boy

The following are the descriptive tables for the use cases “Delivery Boy”

Table 1: Deliver Food as Delivery Boy

Use Case ID:	UC-3.1
Use Case Name:	Deliver Food as Delivery Boy
Actor :	Delivery Boy
Description:	The Delivery boy delivers the food
Trigger:	Food Delivery will be accepted by clicking here.
Preconditions	PRE-1:- Food is received
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none">• Delivery Boy follows the location provided by the restaurant• Delivery Boy delivers food
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 3: Receive Location as Delivery Boy

Use Case ID:	UC-3.2
Use Case Name:	Receive Location as Delivery Boy
Actor :	Delivery Boy
Description:	The Delivery boy Receives location where the food is to be delivered
Trigger:	Location will be traced by clicking this button.
Preconditions	PRE-1:- Food is ordered
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none">• Delivery Boy follows the location provided by the restaurant• Delivery Boy delivers food
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

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Assumptions:	-
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Table 3: Deliver Bill as Delivery Boy

Use Case ID:	UC-3.3
Use Case Name:	Deliver Bill as Delivery Boy
Actor :	Delivery Boy
Description:	The Delivery boy Delivers the bill to the receiver
Trigger:	For paying delivery bill click here.
Preconditions	PRE-1:- Food is ordered
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none">• Delivery boy receives the amount• Delivery Boy follows the location provided by the restaurant• Delivery Boy delivers food• Delivery Boy delivers Bill
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 4: Availability of Delivery Boy

Use Case ID:	UC-3.4
Use Case Name:	Availability as Delivery Boy
Actor :	Delivery Boy
Description:	Available Delivery Boys will be displayed here.
Trigger:	To check the availability of delivery boy click this button.
Preconditions	PRE-1:- Food is ordered
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none">• Delivery boy receives the request from user.• Delivery Boy follows the location provided by the restaurant• Delivery Boy accept the request.• Delivery Boy delivers food
Alternative Flows:	N\A

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Exceptions:	No Delivery boy is available for delivery of food.
Business roles:	Working hours of each delivery boy should not less than 8 hours a day.
Assumptions:	N/A

Table 5: Working Hour Limit

Use Case ID:	UC-3.5
Use Case Name:	Working Hour limit for Delivery Boy
Actor :	Delivery Boy
Description:	Available Delivery Boys will be displayed here who have not completed their working hours.
Trigger:	Working hour limit will be checked from here.
Preconditions	PRE-1:- Food is ordered
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none"> • Delivery boy receives the request from user. • Delivery Boy only available if his working hours are not completed. • Delivery Boy accept the request. • Delivery Boy delivers food
Alternative Flows:	In case a delivery boy have completed his working hours. If he provides more services then he will be awarded for it.
Exceptions:	No Delivery boy is available for delivery of food.
Business roles:	Working hours of each delivery boy should not less than 8 hours a day.
Assumptions:	N/A

Table 6: Delivery Time

Use Case ID:	UC-3.6
Use Case Name:	Delivery Time for delivery boy
Actor :	Delivery Boy
Description:	Delivery boys should try to deliver the food to the user with in the limited time.
Trigger:	To set delivery time range press this button.
Preconditions	PRE-1:- Food is ordered
Post condition:	POST-1: Food is delivered
Normal Flow:	<ul style="list-style-type: none"> • Delivery boy receives the request from user.

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	<ul style="list-style-type: none">• Delivery Boy only available if his working hours are not completed.• Delivery Boy accept the request.• Delivery Boy will give time to reached to user.• Delivery Boy delivers food
Alternative Flows:	In case of urgent delivery extra delivery charges will be applicable.
Exceptions:	No Delivery boy is free for delivery of food.
Business roles:	Working hours of each delivery boy should not less than 8 hours a day.
Assumptions:	N\A

Use Case Table 4: Donor

The following are the descriptive tables for the use cases “Donor”

Table 1: Select recipient as Donor

Use Case ID:	UC-4.1
Use Case Name:	Select recipient as Donor
Actor :	Donor
Description:	The donor will be able to select recipient to donate
Trigger:	The user clicks on the select recipient button
Preconditions	PRE-1: Strong internet connection is required PRE-2: List of recipient is displayed
Post condition:	POST-1: Desired recipient is selected
Normal Flow:	<ul style="list-style-type: none">• User clicks on “Select recipient” button• List of needy recipients is displayed• Recipient is selected• Select button is clicked
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

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Table 2: Donate money as Donor

Use Case ID:	UC-4.2
Use Case Name:	Donate money as Donor
Actor :	Donor
Description:	The donor will be able to donate money
Trigger:	The user clicks on the “Donate money” button
Preconditions	PRE-1: Strong internet connection is required PRE-2: Recipient is selected
Post condition:	POST-1: Desired amount is donated
Normal Flow:	<ul style="list-style-type: none">• Donor fills all the credentials• Donor writes the amount to be donated• Donate button is clicked
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 3: Donate Food as Donor

Use Case ID:	UC-4.3
Use Case Name:	Donate Food as Donor
Actor :	Donor
Description:	The donor will be able to donate food as well
Trigger:	The user clicks on the “Donate Food” button
Preconditions	PRE-1: Strong internet connection is required PRE-2: Recipient is selected
Post condition:	POST-1: Food is donated
Normal Flow:	<ul style="list-style-type: none">• Donor fills all the credentials• Donor receives the location of the recipient• Donor delivers the food
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Use Case Table 5: User

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Table 1: Sign-Up as User

Use Case ID:	UC-5.1
Use Case Name:	Sign-Up as User
Actors:	User
Description:	The user will be able to sign-up and avail services provided by the application
Trigger:	The user clicks on the “Sign Up” button.
Preconditions:	PRE-1: User must have an internet connection PRE-2: The user must not already have an account
Postconditions:	POST-1: User account is created
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks on Sign up Button 2. The user enters the required credentials 3. User clicks Sign up Button
Alternative Flows:	N/A
Exceptions:	N/A
Business Rules	N/A
Assumptions:	N/A

Table 2: Login as User

Use Case ID:	UC-5.2
Use Case Name:	Log-In as User
Actors:	User
Description:	The user will be able to log-in by entering the username & password and avail services provided by the application
Trigger:	The user clicks on the “Log-In” button.
Preconditions:	PRE-1: There must be a registered user.
Postconditions:	POST-1: The user will be logged in. POST-2: User successfully entered to home page.
Normal Flow:	<ol style="list-style-type: none"> 1. User opens application. 2. The user enters the required credentials. 3. Click on the “Login” button. 4. User credentials are verified. 5. Home screen is displayed to the user.
Alternative Flows:	<p>The user skips the required field blank.</p> <ol style="list-style-type: none"> 1. User prompted to fill all the fields of requirements. 2. Error notification will be displayed to the user. <p>The user entered an incorrect detail.</p> <ol style="list-style-type: none"> 1. Error notification will be displayed to the user. 2. User have to again enter the correct credentials. 3. Use case resume from step 2 to normal.
Exceptions:	<p>The user does not have a registered account.</p> <ol style="list-style-type: none"> 1. System should display “User not found” error to

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	user. 2. System prompts the user to first sign-up for creating a new account.
Business Rules	N/A
Assumptions:	N/A

Table 3: Find Food as User

Use Case ID:	UC-5.3
Use Case Name:	Find Food as User
Actors:	User
Description:	The user will be able to see the nearby restaurants that offer food for them from here.
Trigger:	The user clicks on the “Find Food” button.
Preconditions:	PRE-1: There must be a registered user.
Postconditions:	POST-1: The user will get food if any restaurants are available here. POST-2: User successfully find food.
Normal Flow:	<ol style="list-style-type: none"> 1. User opens application. 2. User credentials are verified. 3. The user clicks on the “Find Food” button. 4. Available restaurants are displaying to order food.
Alternative Flows:	N/A
Exceptions:	No nearby available restaurants are available to order some food.
Business Rules	N/A
Assumptions:	N/A

Table 4: Reviews by User

Use Case ID:	UC-5.4
Use Case Name:	Reviews by User
Actors:	User
Description:	The user will be able to give reviews to the restaurants service which enhance their impact on other users of the application.
Trigger:	The user clicks on the “Reviews” button.
Preconditions:	PRE-1: There must be a registered user.
Postconditions:	POST-1: The user will be logged in. POST-2: User successfully able to give reviews.
Normal Flow:	<ol style="list-style-type: none"> 1. User opens application. 2. Click on the “Reviews” button. 3. Here user will give his/her reviews based on the

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	experience.
Alternative Flows:	N\A
Exceptions:	N\A
Business Rules	N\A
Assumptions:	N\A

Table 5: Settings Button

Use Case ID:	UC-5.5
Use Case Name:	Settings as User
Actors:	User
Description:	The user will be able to go to setting options and avail different services provided by the application there.
Trigger:	The user clicks on the “Setting” button.
Preconditions:	PRE-1: There must be a registered user. PRE-1: There must be a suitable internet connection.
Postconditions:	POST-1: The user will be able to go to setting pane. POST-2: User have access to alter his profile accordingly.
Normal Flow:	<ol style="list-style-type: none"> 1. User opens application. 2. The user enters the required credentials. 3. Click on the “Setting” button. 4. Different options are displayed to user here. 5. User can manage his/her profile here.
Alternative Flows:	N\A
Exceptions:	N\A
Business Rules	N\A
Assumptions:	N\A

Table 6: Logout as User

Use Case ID:	UC-5.6
Use Case Name:	Logout
Actors:	User, Admin
Description:	Users will be able to log out from their accounts.
Trigger:	The user clicks on the “logout” button.
Preconditions:	PRE-1: The user is logged into his/her account.
Postconditions:	POST-1: The user is logged out. POST-2: User will be redirected to the Login page,
Normal Flow:	<ol style="list-style-type: none"> 1. The user clicks on the logout button. 2. The user is asked for confirmation. 3. User clicks on the “ok” button 4. The user is logged out of the system.

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Alternative Flows:	In step 3 of normal flow, the user clicks on the “cancel” button. 1. Log out process is canceled
Exceptions:	N\A
Business Rules	N\A
Assumptions:	The user is aware that unsaved changes will be lost once he logs out of the account.

Table 7: Profile Management

Use Case ID:	UC-5.7
Use Case Name:	Update Profile Details
Actors:	User
Description:	The users will be able to change their identification details and replace them with new details when needed.
Trigger:	The user clicks on the “Profile Management” button.
Preconditions:	PRE-1: The user must be logged in. PRE-2: User must in his settings page.
Postconditions:	POST-1: Profile details of users will be updated.
Normal Flow:	<ol style="list-style-type: none"> 1. The user clicks on the profile management button. 2. Use edits their name 3. User edits their email address. 4. User update their phone numbers.
Alternative Flows:	The User presses the Cancel Button Instead of Confirm at Step 5 of Normal Flow <ol style="list-style-type: none"> 1. The profile will not be updated. 2. The user will be redirected to the profile page.
Exceptions:	N\A
Business Rules	N\A
Assumptions:	N\A

Table 8: View History of users

Use Case ID:	UC-5.8
Use Case Name:	View History
Actors:	User
Description:	The users will be able to view history from the setting option of this application.
Trigger:	The user clicks on the “View History” button.
Preconditions:	PRE-1: The user must be logged

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	in. PRE-2: User must in his settings page.
Postconditions:	POST-1: Full History will be displayed.
Normal Flow:	<ol style="list-style-type: none"> 1. The user clicks on the view history button. 2. All histories will be listed.
Alternative Flows:	<p>The User presses the Cancel Button Instead of Confirm at Step 5 of Normal Flow</p> <ol style="list-style-type: none"> 3. The history will not be shown. 4. The user will be redirected to the profile page.
Exceptions:	N\A
Business Rules	N\A
Assumptions:	N\A

Table 9: How to Use

Use Case ID:	UC-5.9
Use Case Name:	How to Use Application
Actors:	User
Description:	If the user is new to this application and knew nothing about its features by clicking “How to Use” option, he/she can have clear understanding about it.
Trigger:	The user clicks on the “How to Use application” button.
Preconditions:	<p>PRE-1: The user must be logged in.</p> <p>PRE-2: User must in his settings page.</p>
Postconditions:	POST-1: All the terms and conditions about the app will be displayed.
Normal Flow:	<ol style="list-style-type: none"> 1. The user clicks on the profile management button. 2. “How to Use” panel will give all the information about the application to the user.
Alternative Flows:	<p>The User presses the Cancel Button Instead of Confirm at Step 5 of Normal Flow.</p> <ol style="list-style-type: none"> 1. The user will be redirected to the profile page.
Exceptions:	User will not able to know about the usage of application.
Business Rules	N\A
Assumptions:	N\A

Table 10: Request Food

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Use Case ID:	UC-5.10
Use Case Name:	Request Food
Actors:	User
Description:	If the user have to order the food from the restaurant that he/she have selected before to order that food.
Trigger:	The user clicks on the “How to Use application” button.
Preconditions:	PRE-1: The user must be logged in.
Postconditions:	POST-1: Request for order will pass to the restaurants.
Normal Flow:	3. The user clicks on the request order. 4. Ordered the food to the selected restaurant. 5. Food will be ordered per person.
Alternative Flows:	N\A
Exceptions:	N\A
Business Rules	N\A
Assumptions:	N\A

11. Functional Requirements

11.1 Module 1: Login and registration

FR-1.1.1<Click on sign up button>

Table 1: Click on Sign Up Button

Identifier	FR-1.1.1
Title	Click on Sign Up Button
Requirement	The user will be able to click on sign up button to start the registration process
Source	Developer
Rationale	The user may want to sign up to avail this apps functionalities

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Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.1.2<Enter Name>

Table 2: Enter Name

Identifier	FR-1.1.2
Title	Enter Name
Requirement	The user will be entering name during the registration process
Source	Developer
Rationale	The user needs a name to be identified
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.1.3<Enter Email>

Table 3: Enter Email

Identifier	FR-1.1.3
Title	Enter Email
Requirement	The user will be entering email during the registration process
Source	Developer
Rationale	The user may want to receive notifications on email

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.1.4<Enter Phone number>

Table 4: Enter Phone number

Identifier	FR-1.1.4
Title	Enter Phone number
Requirement	The user will be entering phone number during the registration process
Source	Developer
Rationale	The user may want to provide a phone number for contact purposes
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.1.5<Enter CNIC>

Table 5: Enter CNIC

Identifier	FR-1.1.5
Title	Enter CNIC
Requirement	The user will be entering CNIC during the registration process
Source	Developer

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Rationale	The user requires a CNIC for verification purposes
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.1.6<Click on Sign-Up button>

Table 6: Click on Sign-Up button

Identifier	FR-1.1.6
Title	Click on Sign-Up button
Requirement	The user will be clicking on this button to complete the registration process
Source	Developer
Rationale	The user may want to confirm their credentials
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.2.1<Click on Login Button>

Table 7: Click on Login button

Identifier	FR-1.2.1
Title	Click on Login button
Requirement	The user will be clicking on login button to view their profile account

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Source	Developer
Rationale	The user may want to use application's functionalities
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.2.2<Enter Username>

Table 8: Enter Username

Identifier	FR-1.2.2
Title	Enter username
Requirement	The user will be Entering their username to login
Source	Developer
Rationale	The user may want to login into its account
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.2.3<Enter Password>

Table 9: Enter Password

Identifier	FR-1.2.3
Title	Enter Password
Requirement	The user will be Entering their password to login
Source	Developer

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Rationale	The user may want to login into its account
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.2.4<Click on Login button>

Table 10: Click on Login Button

Identifier	FR-1.2.4
Title	Click on Login Button
Requirement	The user will click on this button to login
Source	Developer
Rationale	The user may want to login into its account
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.3.1<Forgot Password>

Table 11: Forgot Password

Identifier	FR-1.3.1
Title	Forgot Password
Requirement	User can write a new password
Source	Developer

ASSIGNMENT # 2
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Rationale	The user may have forgotten its password and might want to have a new password
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.3.2<Forgot Password>

Table 12: Enter code

Identifier	FR-1.3.2
Title	Enter Code
Requirement	User verification to change password
Source	Developer
Rationale	The user will be verified for its authentication
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.3.3<Enter New Password>

Table 13: Enter New Password

Identifier	FR-1.3.3
Title	Enter New Password

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Requirement	User can write a new password
Source	Developer
Rationale	The user may have forgotten its password and might want to have a new password
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.3.4<Rewrite New Password>

Table 14: Rewrite New Password

Identifier	FR-1.3.4
Title	Rewrite New Password
Requirement	For confirmation purposes of new password
Source	Developer
Rationale	The user may have forgotten its password and might want to have a new password
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-1.3.5<Click on Done Button>

Table 15: Click on Done Button

Identifier	FR-1.3.3
Title	Click on Done Button
Requirement	User can set the new password

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Source	Developer
Rationale	The user may have forgotten its password and might want to have a new password
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

11.2 Module 2: Admin

FR-2.1.1<Click on View Requests>

Table 1: Click on View Requests

Identifier	FR-2.1.1
Title	Click on View Requests
Requirement	The admin will be able to click on view requests button to start the registration process
Source	Developer
Rationale	The admin may want to view list of requests
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.1.2<Click on View Details>

Table 2: Click on View Details

Identifier	FR-2.1.2
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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Title	Click on View Details
Requirement	The admin will be able to click on view Details button that is available in front of each request
Source	Developer
Rationale	The admin may want to view Documents to confirm registrations
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.1.3<Click on Proceed Button>

Table 3: Click on Proceed Button

Identifier	FR-2.1.3
Title	Click on Proceed Button
Requirement	The admin will be able to click on Proceed button after verification to register the user
Source	Developer
Rationale	The admin may want to confirm registrations
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.1.4<Click on Add Member Button>

Table 4: Click on Add Member Button

Identifier	FR-2.1.4
Title	Click on Add Member Button
Requirement	The admin will be able to click on Add Member button to confirm registration
Source	Developer
Rationale	The admin may want to confirm registrations
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.1.5<Click on Decline Button>

Table 5: Click on Decline Button

Identifier	FR-2.1.5
Title	Click on Decline Button
Requirement	The admin will be able to click on Decline button
Source	Developer
Rationale	The admin may want to decline registration request
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.2.6<Click on Search Member Button>

Table 6: Click on Search Member Button

Identifier	FR-2.2.6
Title	Click on Search Member Button
Requirement	The admin will be able to click on Search Member button
Source	Developer
Rationale	The admin may want to cancel registration of a specific member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.2.7<Click on Remove Button>

Table 7: Click on Remove Button

Identifier	FR-2.2.7
Title	Click on Remove Button
Requirement	The admin will be able to click on Remove button to confirm cancellation of registration
Source	Developer
Rationale	The admin may want to cancel registration of a specific member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.2.8<Click on View Ratings Button>

Table 8: Click on View Ratings Button

Identifier	FR-2.2.8
Title	Click on View Ratings Button
Requirement	The admin will be able to click on View Ratings button to view ratings of desired restaurant
Source	Developer
Rationale	The admin may want to view ratings for any procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.2.9<Click on Search Restaurant Button>

Table 9: Click on Search Restaurant Button

Identifier	FR-2.2.9
Title	Click on Search Restaurant Button
Requirement	The admin will be able to click on Search Restaurant button to view their ratings
Source	Developer
Rationale	The admin may want to view ratings for any procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.3.3< Enter Restaurant Name>

Table 11: Enter Restaurant Name

Identifier	FR-2.3.3
Title	Enter Restaurant Name
Requirement	The admin will be able to enter name of the restaurant to view their ratings
Source	Developer
Rationale	The admin may want to view ratings for any further procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.3.4< Click on Search Icon>

Table 12: Click on Search Icon

Identifier	FR-2.3.4
Title	Click on search icon
Requirement	The admin will be able to enter name of the restaurant to view their ratings
Source	Developer
Rationale	The admin may want to view ratings for any further procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.3.5< View Restaurant Ratings>

Table 13: View Restaurant Ratings

Identifier	FR-2.3.5
Title	View Restaurant Ratings
Requirement	The admin will be able view restaurant ratings
Source	Developer
Rationale	The admin may want to view ratings for any further procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.3.6< Click on Done Button>

Table 14: Click on Done Button

Identifier	FR-2.3.6
Title	Click on Done Button
Requirement	The admin will be able exit and go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.4.2< Enter Member Name>

Table 16: Enter Member Name

Identifier	FR-2.4.2
Title	Enter Member Name
Requirement	The admin will be able to enter name of the member to edit their details from the record
Source	Developer
Rationale	The admin may want to edit details for any procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.4.3< Click on Search Icon>

Table 17: Click on Search Icon

Identifier	FR-2.4.3
Title	Click on Search Icon
Requirement	The admin will be able to search member
Source	Developer
Rationale	The admin may want to search member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.4.4< View Member Details>

Table 18: View Member Details

Identifier	FR-2.4.4
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ASSIGNMENT # 2
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Title	View Member Details
Requirement	The admin will be able view all the details of searched member
Source	Developer
Rationale	The admin may want to Edit details of a member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.4.5< Edit Member Details>

Table 19: Edit Member Details

Identifier	FR-2.4.5
Title	Edit Member Details
Requirement	The admin will be able Edit the details of searched member
Source	Developer
Rationale	The admin may want to Edit details of a member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.4.6< Click on Save Icon>

Table 20: Click on Save Icon

Identifier	FR-2.4.6
Title	Click on Save Icon

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The admin will be able save the edited details and go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.5.1<Click on View Member Details Button>

Table 21: Click on View Member Details button

Identifier	FR-2.5.1
Title	Click on View Member Details button
Requirement	The admin will be able view all the details of searched member
Source	Developer
Rationale	The admin may want to view details of a member for record keeping
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.5.3< Click on Search Icon>

Table 23: Click on Search Icon

Identifier	FR-2.5.3
Title	Click on Search Icon
Requirement	The admin will be able to search member
Source	Developer
Rationale	The admin may want to search member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.5.4< View Member Details>

Table 24: View Member Details

Identifier	FR-2.5.4
Title	View Member Details
Requirement	The admin will be able view all the details of searched member
Source	Developer
Rationale	The admin may want to view all details of a member for record keeping
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.5.6< Click on Done Button>

Table 25: Click on Done Button

Identifier	FR-2.5.6
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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Title	Click on Done Button
Requirement	The admin will be able to go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.6.1<Click on View All Members Button>

Table 26: Click on View All Members button

Identifier	FR-2.6.1
Title	Click on View All Members button
Requirement	The admin will be able view the details of all members
Source	Developer
Rationale	The admin may want to view details of all member for record keeping
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.6.3< Click on Back Button>

Table 28: Click on Back Button

Identifier	FR-2.6.3
Title	Click on Back Button

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The admin will be able to go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.1< Click on Send Notification Button>

Table 29: Click on Send Notification Button

Identifier	FR-2.7.1
Title	Click on Send Notification Button
Requirement	The admin will be able to send notification via text or email to the member
Source	Developer
Rationale	The admin may want to send a notification to the member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.2< Click on Send Text Button>

Table 30: Click on Send Text Button

Identifier	FR-2.7.2
Title	Click on Send Text Button

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The admin will be able to send notification via text to the member
Source	Developer
Rationale	The admin may want to send a notification to the member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.3< Enter Member Name>

Table 31: Enter Member Name

Identifier	FR-2.7.3
Title	Enter Member Name
Requirement	The admin will be able to enter name of the member to send text
Source	Developer
Rationale	The admin may want to send text to a member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.4< Click on Search Icon>

Table 32: Click on Search Icon

Identifier	FR-2.7.4
Title	Click on Search Icon
Requirement	The admin will be able to search member to send text
Source	Developer

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Rationale	The admin may want to search member to send text
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.5< Click on Text Button>

Table 33: Click on Text Button

Identifier	FR-2.7.5
Title	Click on Text Button
Requirement	The admin will be able to send text to the searched member
Source	Developer
Rationale	The admin may want to send text to a member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.6< Write Text >

Table 34: Write Text

Identifier	FR-2.7.6
Title	Write Text
Requirement	The admin will be able to write text to the searched member
Source	Developer
Rationale	The admin may want to send text to a member

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.7< Click on Send Button>

Table 35: Click on Send Button

Identifier	FR-2.7.7
Title	Click on Send Button
Requirement	The admin will be able to send text to the searched member
Source	Developer
Rationale	The admin may want to send text to a member
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.7.8<Click on Send Email Button>

Table 36: Click on Send Email Button

Identifier	FR-2.7.8
Title	Click send Email Button
Requirement	The admin will be able to click on send this button to send messages to user/restaurants.
Source	Developer
Rationale	The admin has the authority to look after the working of all the users/restaurants either they are working or not and send notifications.

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule (if required)	N\A
Dependencies	N\A
Priority	Medium

FR-2.7.9 <Search User's Email >

Table 37: Search User's Email

Identifier	FR-2.7.9
Title	Click on the Search User's Email button
Requirement	The admin shall be able to search email.
Source	Developer
Rationale	Searching email will require specific user name.
Business Rule	N\A
Dependencies	N\A
Priority	Medium

FR-2.7.10 <Compose Email>

Table 38: Search User's Email

Identifier	FR-2.7.10
Title	Click on the composing an Email button
Requirement	The admin shall be able to compose an email.
Source	Developer
Rationale	While composing an Email all details should be filled correctly.

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule	N\A
Dependencies	N\A
Priority	Medium

FR-2.7.11 <Enter Username >

Table 39: Enter User name

Identifier	FR-2.7.11
Title	Enter User name
Requirement	The admin shall be able to enter user name for identification
Source	Developer
Rationale	The user's name used to identify and verify the account along with its other contact details
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-2.7.12<Enter Details >

Table 40: Enter Other Details

Identifier	FR-2.7.12
Title	Enter other details
Requirement	The admin shall be able to enter other details of user.
Source	Developer
Rationale	All other details should be correctly filled so that user can easily get the point after receiving notification.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-2.7.13< Send Email>

Table 41: Send Email as notification

Identifier	FR-2.7.13
Title	Enter send Email as notification
Requirement	Admin shall be able to send emails to the user/restaurants.
Source	Developer
Rationale	An email will be used as a warning t the user/ restaurants in case of not donating for long time.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-2.7.14< Click on Done Button>

Table 42: Click on Done Button

Identifier	FR-6.1.7
Title	Click on Done Button
Requirement	The admin will be able exit and go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.8.1<Click on View Active Restaurants>

Table 43: Click on *View Active Restaurants*

Identifier	FR-2.8.1
Title	Click Active Restaurants as Admin
Requirement	The admin will be able to click on view active restaurants button to see all active restaurants.
Source	Developer
Rationale	The admin may want to view list of all the restaurants taking part in donating food.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	Medium

FR-2.8.2< Display Restaurants list >

Table 44: Click on Display Restaurants list

Identifier	FR-2.8.2
Title	Click on the Display Restaurants list.
Requirement	The admin shall be able to see all the restaurants donating food.
Source	Developer
Rationale	List will be shown to the admin.
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-2.8.3< Click on Done Button>

Table 45: Click on Done Button

Identifier	FR-2.8.3
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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Title	Click on Done Button
Requirement	The admin will be able exit and go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-2.9.1<Click on View Active User>

Table 46: Click on View Active User

Identifier	FR-2.9.1
Title	Click Active User as Admin
Requirement	The admin will be able to click on view active users button to see all user list.
Source	Developer
Rationale	The admin may want to view list of all the users that are actively ordering food
Business Rule (if required)	N\A
Dependencies	N\A
Priority	Medium

FR-2.9.2< View User list >

Table 47: View User list

Identifier	FR-2.9.2
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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Title	View User list.
Requirement	The admin shall be able to see all the users ordering food.
Source	Developer
Rationale	List will be shown to the admin.
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-2.9.3 < Click on Done Button >

Table 48: Click on Done Button

Identifier	FR-2.9.3
Title	Click on Done Button
Requirement	The admin will be able exit and go back to the main menu
Source	Developer
Rationale	The admin may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

4.3 Module 3: Donation

FR-3.1.1 < Donation >

Table 1: Click on Donation Button

Identifier	FR-3.1.1
Title	Click on the donation button
Requirement	The user shall be able to click on the donation button to start donation process.
Source	Developer
Rationale	The user may want to donate for the needy/shelter homes.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.2 < Click on Donation to Restaurants Button>

Table 2: Click on Donation to Restaurants Button

Identifier	FR-3.1.2
Title	Click on the donation to restaurants button
Requirement	The user shall be able to click on the donation to restaurants button to give his donation.
Source	Developer
Rationale	The user may want to donate for needy.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.3 < Enter Amount>

Table 3: Enter Amount

Identifier	FR-3.1.3
Title	Enter Amount
Requirement	The Donor shall be able to enter the amount to be donated
Source	Developer
Rationale	The user may want to donate for needy.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.4 < Enter Debit Card Number>

Table 4: Enter Debit Card Number

Identifier	FR-3.1.4
Title	Enter Debit Card Number
Requirement	The Donor shall be able to enter Debit Card Number for the amount to be donated
Source	Developer
Rationale	The user may want to donate for needy.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.5< Click on Done Button>

Table 5: Click on Done Button

Identifier	FR-3.1.5
Title	Click on Done button
Requirement	The donor will be able donate to amount after filling all the required credentials
Source	Developer
Rationale	The donor may want to donate money
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-3.1.6 < Click on Donation to Shelter Homes Buttons >

Table 6: Click on Donation to Shelter Home Button

Identifier	FR-3.1.3
Title	Click on the donation to shelter home button
Requirement	The user shall be able to click on the donation to shelter homes button to donate money to a shelter home according to his will.
Source	Developer
Rationale	The user may want to donate for shelter homes.
Business Rule	N\A

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Dependencies	N\A
Priority	High

FR-3.1.7 < Click on Donate Food Buttons >

Table 7: Click on Donate Food Button

Identifier	FR-3.1.7
Title	Click on the donate food button
Requirement	The user shall be able to click on the this button to donate food
Source	Developer
Rationale	The user may want to donate for shelter homes.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.8 < Enter Amount of Food >

Table 8: Enter Amount of Food

Identifier	FR-3.1.8
Title	Enter the amount of food
Requirement	The user shall be able to enter food (per person) that is to be donated
Source	Developer
Rationale	The user may want to donate for shelter homes.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.9 < Select Shelter Home >

Table 9: Select Shelter Home

Identifier	FR-3.1.9
Title	Select shelter Home
Requirement	The user shall be able to select shelter home to donate food
Source	Developer
Rationale	The user may want to donate for shelter homes.
Business Rule	N\A

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Dependencies	N\A
Priority	High

FR-3.1.10 < Click on Get Location Button >

Table 10: Click on Get Location Button

Identifier	FR-3.1.10
Title	Click on Get Location Button
Requirement	The user shall be able to get location of the shelter home to donate food
Source	Developer
Rationale	The user may want to donate for shelter homes.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-3.1.11< Click on Done Button>

Table 11: Click on Done Button

Identifier	FR-3.1.11
Title	Click on Done button
Requirement	The donor will be able to donate food after filling all the required credentials
Source	Developer
Rationale	The donor may want to donate food to a shelter home
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

4.4 Module 4: Setting

FR-4.1.1 < Settings >

Table 1: Click on Setting Button

Identifier	FR-4.1.1
Title	Click on the setting button
Requirement	The user shall be able to click on the setting button to see different options.
Source	Developer
Rationale	Discovering more features about customization of this application
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.2 < Update name >

Table 2: Click on Update Name

Identifier	FR-4.1.2
Title	Click update name
Requirement	The user shall be able to click on the update Name to modify his current name.
Source	Developer
Rationale	User may want to change the name mentioned previously on profile.
Business Rule	N\A
Dependencies	N\A
Priority	Medium

FR-4.1.3 <Click Yes >

Table 3: Click Yes

Identifier	FR-4.1.3
Title	Click Yes
Requirement	The user shall be able to click on Yes Button after adding the updated contents.
Source	Developer
Rationale	User may want to confirm changes and replace them with new.
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.4 < Settings >

Table 4: Click on Setting Button

Identifier	FR-4.1.4
Title	Click on the setting button
Requirement	The user shall be able to click on the setting button to see different options.
Source	Developer
Rationale	Discovering more features about customization of this application
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.5 < Update address >

Table 5: Click on Update Email Address

Identifier	FR-4.1.5
Title	Click update Email address
Requirement	The user shall be able to click on the update Email address to modify his current address.
Source	Developer
Rationale	User may want to change the Email mentioned previously on profile.
Business Rule	User should have to write a valid email address.
Dependencies	N\A
Priority	Medium

FR-4.1.6 <Click Yes >

Table 6: Click Yes

Identifier	FR-4.1.6
Title	Click Yes
Requirement	The user shall be able to click on Yes Button after adding the updated contents.
Source	Developer
Rationale	User may want to confirm changes and replace them with new.
Business Rule	N\A
Dependencies	N\A

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Priority	Low
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FR-4.1.7 < Settings >

Table 7: Click on Setting Button

Identifier	FR-4.1.7
Title	Click on the setting button
Requirement	The user shall be able to click on the setting button to see different options.
Source	Developer
Rationale	Discovering more features about customization of this application
Business Rule	N/A
Dependencies	N/A
Priority	Low

FR-4.1.8< Update Phone Number >

Table 8: Click on Update Phone Number

Identifier	FR-4.1.8
Title	Click update Phone Number
Requirement	The user shall be able to click on the update Phone Number to modify his current Phone Number.
Source	Developer
Rationale	User may want to change the Phone Number mentioned previously on profile.
Business Rule	Phone number should not exceed 11 digits.
Dependencies	N/A
Priority	Medium

FR-4.1.9 <Click Yes >

Table 9: Click Yes

Identifier	FR-4.1.9
Title	Click Yes

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The user shall be able to click on Yes Button after adding the updated contents.
Source	Developer
Rationale	User may want to confirm changes and replace them with new.
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.10 < Update Phone Number >

Table 10: Click on Update Phone Number

Identifier	FR-4.1.10
Title	Click update Phone Number
Requirement	The user shall be able to click on the update Phone Number to modify his current Phone Number.
Source	Developer
Rationale	User may want to change the Phone Number mentioned previously on profile.
Business Rule	Phone number should not exceed 11 digits.
Dependencies	N\A
Priority	Medium

FR-4.1.11 < Settings >

Table 11: Click on Setting Button

Identifier	FR-4.1.11
Title	Click on the setting button
Requirement	The user shall be able to click on the setting button to see different options.
Source	Developer
Rationale	Discovering more features about customization of this application
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.12 < How to Use >

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Table 12: Click How to use button

Identifier	FR-4.1.12
Title	Click How to use button
Requirement	The user shall be able to click on the How to use button to get information about application.
Source	Developer
Rationale	Discovering about customization and services of this application
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.13 < Settings >

Table 13: Click on Setting Button

Identifier	FR-4.1.13
Title	Click on the setting button
Requirement	The user shall be able to click on the setting button to see different options.
Source	Developer
Rationale	Discovering more features about customization of this application
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.14 < View History >

Table 14: Click on View History

Identifier	FR-4.1.14
Title	Click on the setting button
Requirement	The user shall be able to click on the view history button to see all history of the applicants.
Source	Developer
Rationale	Describe the number of people who have taken food from restaurants. homes.

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule	N\A
Dependencies	N\A
Priority	Medium

FR-4.1.15 < Settings >

Table 15: Click on Setting Button

Identifier	FR-4.1.15
Title	Click on the setting button
Requirement	The user shall be able to click on the setting button to see different options.
Source	Developer
Rationale	Discovering more features about customization of this application
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-4.1.16 < Logout >

Table 16: Click Logout Button

Identifier	FR-4.1.16
Title	Click on Logout
Requirement	The users shall be able to click on the logout button to logout their accounts.
Source	Developer
Rationale	Login session of the user will be ended by clicking logout.
Business Rule	N\A
Dependencies	N\A
Priority	High

FR-4.1.17 < Click Ok Button >

Table 17: Click on Ok Button

Identifier	FR-4.1.17
Title	Click Ok Button
Requirement	User will be able to click on the ok button in the in confirmation box to confirm their logout.

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Source	Developer
Rationale	Confirmation box ends the login session of the user by clicking on ok
Business Rule	N\A
Dependencies	N\A
Priority	Low

4.5 Module 5: Find Food

FR-5.1.1 <Click on Find Food >

Table 1: Click on Find Food Button

Identifier	FR-5.1.1
Title	Click on the Find Food button
Requirement	The user shall be able to click on the Find Food button to see available restaurants nearby to request food.
Source	Developer
Rationale	Request to restaurants for food.
Business Rule	Only registered user can have access to this feature.
Dependencies	N\A
Priority	High

FR-5.1.2 <View Nearby Restaurants >

Table 2: View Nearby Restaurants

Identifier	FR-5.1.2
Title	View Nearby Restaurants
Requirement	The user shall be able to view list of all restaurants that nearby its location with food availability.
Source	Developer
Rationale	User may order food from nearby shops in order to receive it on time
Business Rule	Only registered user can have access to this feature.
Dependencies	N\A
Priority	High

FR-5.1.3 <Search Nearby Restaurants >

Table 3: Search nearby Restaurants

Identifier	FR-5.1.3
Title	Click on the Search Nearby Restaurants button
Requirement	The user shall be able to search restaurants nearby to request food.
Source	Developer
Rationale	Searching food by specific restaurants name.
Business Rule	N\A
Dependencies	N\A
Priority	Medium

FR-5.1.4< Enter Restaurant Name>

Table 4: Enter Restaurant Name

Identifier	FR-5.1.4
Title	Enter Restaurant name Button
Requirement	User can search for restaurants by entering name of restaurants here.
Source	Developer
Rationale	User may want to search Restaurant
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-5.1.5< Click on Search Icon>

Table 5: Click on Search Icon

Identifier	FR-5.1.5
Title	Click on search icon

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The user will be able search the name of the restaurant to view their offers.
Source	Developer
Rationale	The user may want to view offers of any specific restaurant.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-5.1.6 <Click on Request Food Button>

Table 6: Click on Request Food Button

Identifier	FR-5.1.6
Title	Click on the request food button
Requirement	The user shall be able to request the desire restaurant's food according to the no of persons.
Source	Developer
Rationale	Order food to the restaurant
Business Rule	Order should be served on first come first serve basis.
Dependencies	N\A
Priority	Medium

FR-5.1.7 < Enter Name >

Table 7: Enter Name

Identifier	FR-5.1.7
Title	Enter Name
Requirement	The user shall be able to enter their name for identification
Source	Developer
Rationale	The user's name used to identify and verify the account along with its other contact details

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule	N\A
Dependencies	N\A
Priority	High

FR-5.1.8 < Enter Email Address>

Table 8: Enter Email Address

Identifier	FR-5.1.8
Title	Enter Email Address
Requirement	Users shall be able to enter emails for order confirmation.
Source	Developer
Rationale	An email will be used for identification purposes during order.
Business Rule	None
Dependencies	None
Priority	High

FR-5.1.9 <Enter No. of Persons >

Table 9: Enter Person's Number

Identifier	FR-5.1.9
Title	Enter Number of Person.
Requirement	Users shall be able to enter specific number of people for whom food is being ordered.
Source	Developer
Rationale	The number of person's are helpful for identify that how many people have to utilize the available food.
Business Rule	User can order only that food which is available to the restaurants at that time
Dependencies	N\A
Priority	High

FR-5.1.10 < Click on Confirm Order >

Table 10: Click on Confirm Order Button

Identifier	FR-5.1.10
Title	Click on Confirm Order Button.
Requirement	Users shall be able to enter specific details again in case of any mistake..

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Source	Developer
Rationale	So user can confirm that they have entered all details valid or not.
Business Rule	N\A
Dependencies	N\A
Priority	Low

4.6 Module 6: Reviews

FR-6.1.1 < Enter Name >

Table 1: Enter Name

Identifier	FR-6.1.1
Title	Enter Name
Requirement	The user shall be entering their name in the signup form
Source	Developer
Rationale	The user needs a name to be identified
Business Rule	N\A
Dependencies	N\A
Priority	High

*FR-6.1.2 < Enter
Password >*

Table 2: Enter Password

Identifier	FR-6.1.2
Title	Enter Password
Requirement	Users shall be able to enter passwords to login into the system.
Source	Developer
Rationale	It is used to confirm the user credentials and identity.
Business Rule	Password must be longer than 8 characters.
Dependencies	N\A
Priority	High

*FR-6.1.3 < Click
Login Button >*

Table 3: Enter Password

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Identifier	FR-6.1.3
Title	Click Login Button
Requirement	Users shall be able to click the login button after entering the credentials to login into the system.
Source	Developer
Rationale	Clicking the login button will verify the credentials so the user can access the system.
Business Rule	N/A

FR-6.1.4 <Search Restaurants >

Table 4: Search Restaurants

Identifier	FR-6.1.4
Title	Click on the Search Restaurants button
Requirement	The user shall be able to search restaurants nearby to give reviews.
Source	Developer
Rationale	Giving reviews about their experience by searching restaurants by name.
Business Rule	N/A
Dependencies	N/A

FR-6.1.5< Enter Restaurant Name >

Table 5: Enter Restaurant Name

Identifier	FR-6.1.5
Title	Click on Enter Restaurant name Button
Requirement	While going to review option user have to enter restaurant name for whom he wants to give reviews
Source	Developer
Rationale	By clicking restaurants name button user have to mention reviews.
Business Rule (if required)	N/A
Dependencies	N/A
Priority	High

FR-6.1.6 < Click on Search Icon >

Table 6: Click on Search Icon

Identifier	FR-6.1.6
Title	Click on search icon
Requirement	The user will be able search the name of the restaurant to view their offers.
Source	Developer
Rationale	The user may want to view offers for any specific restaurant.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-6.1.7 < Comment Reviews >

Table 7: Click on Reviews Button

Identifier	FR-6.1.7
Title	Click on reviews button
Requirement	The user shall be able to click on the reviews button to submit their reviews.
Source	Developer
Rationale	Rate user experiences using review section.
Business Rule	Only registered user can have access to give reviews.
Dependencies	N\A
Priority	Medium

FR-6.1.8 < Comment by Stars >

Table 8: Click on Comment by Stars

Identifier	FR-6.1.8
Title	Click on select stars button

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The user shall be able to click on the stars button to submit their reviews.
Source	Developer
Rationale	Number of stars will show the experience of the user.
Business Rule	Maximum Number of staff will be 5.
Dependencies	N\A
Priority	High

FR-6.1.9 <Submit Reviews >

Table 9: Click on Submit Reviews

Identifier	FR-6.1.9
Title	Click Submit Reviews Button
Requirement	The user shall be able to click on submit reviews button after adding the reviews.
Source	Developer
Rationale	User must give reviews after their experiences.
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-6.1.10 <Submit Reviews Notification >

Table 10: Submit Reviews Notification

Identifier	FR-6.1.10
Title	Click Submit Reviews Notification Button
Requirement	The user shall be able to click on submit reviews notification button after adding the reviews.
Source	Developer
Rationale	User must give reviews after their experiences.
Business Rule	N\A
Dependencies	N\A
Priority	Low

FR-6.1.11< Click on Back Button>

Table 11: Click on Back Button

Identifier	FR-6.1.11
Title	Click on Back Button
Requirement	The user will be able exit and go back to the main menu
Source	Developer
Rationale	The user may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

4.7 Module 7: Delivery

FR-7.1.2<Click Sign-Up>

Table 1: Click on Sign Up Button

Identifier	FR-7.1.1
Title	Click on Sign Up Button
Requirement	Delivery Boy will be able to click on sign up button to start the registration process
Source	Developer
Rationale	Delivery Boy may want to sign up to avail this apps functionalities
Business Rule (if required)	N\A
Dependencies	N\A

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Priority	High
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FR-7.1.2<Enter Name>

Table 2: Enter Name

Identifier	FR-7.1.2
Title	Enter Name
Requirement	The Deliver Boy will be entering name during the registration process
Source	Developer
Rationale	The Deliver Boy needs a name to be identified
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.3<Enter Email>

Table 3: Enter Email

Identifier	FR-7.1.3
Title	Enter Email
Requirement	The Delivery Boy will be entering email during the registration process
Source	Developer
Rationale	The Delivery Boy may want to receive notifications on email
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

5.

FR-7.1.4<Enter Phone number>

Table 4: Enter Phone number

Identifier	FR-7.1.4
Title	Enter Phone number
Requirement	The Delivery Boy will be entering phone number during the registration process
Source	Developer
Rationale	The Delivery Boy may want to provide a phone number for contact purposes
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.5<Enter CNIC>

Table 5: Enter CNIC

Identifier	FR-7.1.5
Title	Enter CNIC
Requirement	The Delivery Boy will be entering CNIC during the registration process
Source	Developer
Rationale	The Delivery Boy requires a CNIC for verification purposes
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.6<Click on Sign-Up button>

Table 6: Click on Sign-Up button

Identifier	FR-7.1.6
Title	Click on Sign-Up button
Requirement	The Delivery Boy will be clicking on this button to complete the registration process
Source	Developer
Rationale	The Delivery Boy may want to confirm their credentials
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.7<Click on Login Button>

Table 7: Click on Login button

Identifier	FR-7.1.7
Title	Click on Login button
Requirement	The Delivery Boy will be clicking on login button to view their profile account
Source	Developer
Rationale	The Delivery Boy may want to use application's functionalities
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.8<Enter Username>

Table 8: Enter Username

Identifier	FR-7.1.8
Title	Enter username
Requirement	The Delivery Boy will be Entering their username to login
Source	Developer
Rationale	The Delivery Boy may want to login into its account
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.9<Enter Password>

Table 9: Enter Password

Identifier	FR-7.1.9
Title	Enter Password
Requirement	The Delivery Boy will be Entering their password to login
Source	Developer
Rationale	The Delivery Boy may want to login into its account
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.10<Click on Login button>

Table 10: Click on Login Button

Identifier	FR-7.1.10
Title	Click on Login Button

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The Delivery Boy will click on this button to login
Source	Developer
Rationale	The Delivery Boy may want to login into its account
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.11<Click on Delivery>

Table 11: Click on Delivery Option

Identifier	FR-7.1.11
Title	Click on Delivery
Requirement	The Delivery Boy will be responsible to deliver the food to its ordered destination.
Source	Developer
Rationale	Delivery charges will be free for needy and shelter homes.
Business Rule (if required)	It apply delivery charges if user want to give 10 or 15%.
Dependencies	N\A
Priority	High

FR-7.1.12<Click to pay 10% Delivery charges >

Table 12: Click to pay 10% Delivery Charges Button

Identifier	FR-7.1.12
Title	Click on 10 % Delivery Charges.

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Requirement	The Delivery Boy will be able to accept 10% charges from the user if user wants.
Source	Developer
Rationale	Delivery charges will be not apply on food delivery for needy and shelter homes.
Business Rule (if required)	Only 15% charges allowable.
Dependencies	N\A
Priority	High

FR-7.1.13<Click to pay 15% Delivery charges >

Table 13: Click to pay 15% Delivery Charges Button

Identifier	FR-7.1.13
Title	Click on 15 % Delivery Charges.
Requirement	The Delivery Boy will be able to accept 15% charges from the user if user wants.
Source	Developer
Rationale	Delivery charges will be not apply on food delivery for needy and shelter homes.
Business Rule (if required)	Only 15% charges allowable.
Dependencies	N\A
Priority	High

FR-7.1.14<Click on Accept Button >

Table 14: Click on Accept Button

Identifier	FR-7.1.14
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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Title	Click on Accept Button
Requirement	The Delivery Boy will be able to click on Accept button to confirm delivery charges
Source	Developer
Rationale	The Delivery Boy may want to accept request if charges is not payable by user
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.15<Click on Collect Food Button >

Table 15: Click on Collect Food Button

Identifier	FR-7.1.15
Title	Click on Collect Food Button
Requirement	The delivery boy will be able to click on collect food button to collect food from restaurant and deliver to the user.
Source	Kainat
Rationale	To Deliver food delivery boy have to click on this button to get that food to be delivered.
Business Rule (if required)	Food will be delivered at required user location.
Dependencies	N\A
Priority	High

FR-7.1.16<Click on Collect Food Button >

Table 116: Click on Collect Receipt Button

Identifier	FR-7.1.16
Title	Click on Collect Receipt Button
Requirement	The delivery boy will be able to click on collect receipt button to collect receipt from restaurant and give to the user.
Source	Developer
Rationale	To get charges from receiver delivery boy have to click on this button to get receipt from restaurants.
Business Rule (if required)	Food charges will receive from user as mentioned on receipt.
Dependencies	N\A
Priority	High

FR-7.1.17<Click on Get Location Button >

Table 17: Click on Get Location Button

Identifier	FR-7.1.17
Title	Click on Get Location Button
Requirement	The delivery boy will be able to click on this button to get location of user.
Source	Developer
Rationale	To Deliver food delivery boy will be able to deliver that food to required place.
Business Rule (if required)	Food will be delivered at required user location.
Dependencies	N\A
Priority	High

FR-7.1.18<Click on Deliver Food Button >

Table 18: Click on Deliver Food Button

Identifier	FR-7.1.118
Title	Click on Deliver Food Button
Requirement	The delivery boy will be able to click on collect food button to deliver food from restaurant to the user.
Source	Developer
Rationale	To Deliver food delivery boy have to click on this button to get that food to be delivered.
Business Rule (if required)	Food delivery charges should be collected accordingly.
Dependencies	N\A
Priority	High

FR-7.1.19<Click on Deliver Receipt Button >

Table 19: Click on Deliver Receipt Button

Identifier	FR-7.1.19
Title	Click on Deliver Receipt Button
Requirement	The delivery boy will be able to click on Deliver receipt button to deliver food receipt.
Source	Developer
Rationale	By clicking this receipt will be delivered to receiver.
Business Rule (if required)	Food delivery charges should be collected as fixed by restaurant.
Dependencies	N\A
Priority	High

FR-7.1.20<Click on Receive Payment Button >

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Table 20: Click on Receive Payment Button

Identifier	FR-7.1.20
Title	Click on Receive Payment Button
Requirement	The delivery boy will be able to click on Receive Payment button to receive payment of food.
Source	Developer
Rationale	By clicking this payment will be received.
Business Rule (if required)	No delay in time to pay fill.
Dependencies	N\A
Priority	High

FR-7.1.21<Click on Availability Button >

Table 21: Click on Availability Button

Identifier	FR-7.1.21
Title	Click on availability Button
Requirement	The user will be able to click on the Availability button to know which delivery boy is available at current time.
Source	Developer
Rationale	By clicking this available delivery boys will be diaplayed.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	Medium

FR-7.1.22< List of Delivery Boys Button >

Table 22: Click on List of Delivery Boys Button

Identifier	FR-7.1.22
Title	Click on list of delivery boys
Requirement	The user will be able to see the Available Delivery Boys from here.
Source	Developer
Rationale	By clicking this list of all available delivery boys will be shown.
Business Rule (if required)	Working hour of a boys should be 8 hours or more.
Dependencies	N\A
Priority	Medium

FR-7.1.23< List of Delivery Boys Button >

Table 23: Select Delivery Boy Button

Identifier	FR-7.1.23
Title	Click on select delivery boy button
Requirement	The user will be able to select the suitable
Source	Developer
Rationale	By clicking this list of all available delivery boys will be shown.
Business Rule (if required)	Working hour of a boys should be 8 hours or more.
Dependencies	N\A
Priority	Medium

FR-7.1.24< Confirm Delivery Button >

Table 24: Select Confirm Delivery Button

Identifier	FR-7.1.24
Title	Click on confirm delivery button
Requirement	The user will be able to confirm its delivery.
Source	Developer
Rationale	By clicking this delivery boy will reached your entered location with your ordered food.
Business Rule (if required)	Working hour of a boys should be 8 hours or more.
Dependencies	N\A
Priority	High

FR-7.1.25< Click on Back Button>

Table 25: Click on Back Button

Identifier	FR-7.1.25
Title	Click on Back Button
Requirement	The user will be able exit and go back to the main menu
Source	Developer
Rationale	The user may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-7.1.26< Click on Set Delivery Time>

Table 26: Click on Set Delivery Time Button

Identifier	FR-7.1.26
Title	Click on set delivery time
Requirement	The user will be able set the delivery time to receive order.
Source	Developer
Rationale	By clicking this button timer will be displayed for delivery.
Business Rule (if required)	Delivery Boy have to delivered the order in required time.
Dependencies	N\A
Priority	High

FR-7.1.27< Click on Set Delivery Time>

Table 27: Click on Urgent Delivery Button

Identifier	FR-7.1.27
Title	Click on urgent delivery button
Requirement	The user will be able to order urgently.
Source	Developer
Rationale	By clicking this button urgent delivery will be set for 30 minutes but with extra charges..
Business Rule (if required)	Delivery Boy have to delivered the order within 30 minutes.
Dependencies	N\A
Priority	High

4.8 Module 8: Restaurant

FR-8.1.1<Click on View Donations Button>

Table 1: Click on View Donations Button

Identifier	FR-8.1.1
Title	Click on View Donations Button
Requirement	The restaurant will be able to click on view donations button to view all donations
Source	Developer
Rationale	The restaurant may want to view all donations to confirm whether to make extra special food or not
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.1.2< View Donations>

Table 2: View Donations

Identifier	FR-8.1.2
Title	View Donations
Requirement	The restaurant will be able to view all donations
Source	Developer
Rationale	The restaurant may want to view all donations to confirm whether to make extra special food or not
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.1.3<Click on Back Button>

Table 3: Click on Back Button

Identifier	FR-8.1.3
Title	Click on Back Button
Requirement	The restaurant will be able to click on this button to go back to the main menu
Source	Developer
Rationale	The restaurant may want to go back to the main menu to perform other actions
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.2.1<Click on Post Food Availability Button>

Table 4: Click on Post Food Availability Button

Identifier	FR-8.2.1
Title	Click on Post Food Availability Button
Requirement	The restaurant will be able to click on Post Food Availability button to Post the Number of Persons they can feed
Source	Developer
Rationale	The restaurant may want to Post Food Availability to show the availability of food for number of persons
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.2.2<Click on Increase/Decrease Button>

Table 5: Click on Increase/Decrease Button

Identifier	FR-8.2.2
Title	Click on Increase/Decrease Button
Requirement	The restaurant will be able to click on this button to specify the Number of Persons they can feed
Source	Developer
Rationale	The restaurant may want to Post Food Availability to show the availability of food for number of persons
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.2.3<Click on Post Button>

Table 6: Click on Post Button

Identifier	FR-8.2.3
Title	Click on Post Button
Requirement	The restaurant will be able to click on this button to Post the Number of Persons they can feed
Source	Developer
Rationale	The restaurant may want to Post Food Availability to show the availability of food for number of persons
Business Rule (if required)	N\A

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Dependencies	N\A
Priority	High

FR-8.3.1<Click on View Requests Button >

Table 7: Click on View Requests Button

Identifier	FR-8.3.1
Title	Click on View Requests Button
Requirement	The restaurant will be able to click on this button to view all the requests
Source	Developer
Rationale	The restaurant may want to view list of requests to accept or decline it
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.3.2<View Requests >

Table 8: View Requests

Identifier	FR-8.3.2
Title	View Requests
Requirement	The restaurant will be able to view all the requests
Source	Developer
Rationale	The restaurant may want to view list of requests to accept or decline it

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.3.3<Click on Proceed Requests Button >

Table 9: Click on Proceed Requests Button

Identifier	FR-8.3.3
Title	Click on Proceed Requests Button
Requirement	The restaurant will be able to click on this button to proceed request procedure
Source	Developer
Rationale	The restaurant may want to accept or decline requests
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.4.1<Click on Decline Button>

Table 10: Click on Decline Button

Identifier	FR-8.4.1
Title	Click on Decline Button
Requirement	The Restaurant will be able to click on Decline button to cancel order request
Source	Developer
Rationale	The restaurant may want to decline request if food is not available

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Business Rule (if required)	-
Dependencies	-
Priority	High

FR-8.5.1<Click on Accept Button>

Table 11: Click on Accept Button

Identifier	FR-8.5.1
Title	Click on Accept Button
Requirement	The Restaurant will be able to click on Accept button to confirm order request
Source	Developer
Rationale	The restaurant may want to accept request if food is available
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.6.1<Click on View Accepted Orders Button >

Table 12: Click on View Accepted Orders Button

Identifier	FR-8.6.1
Title	Click on View Accepted Orders Button
Requirement	The restaurant will be able to click on this button to view all the accepted orders record
Source	Developer

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Rationale	The restaurant may want to view list of all the orders that were accepted by it
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.6.2<View Accepted Orders >

Table 13: View Accepted Orders

Identifier	FR-8.6.2
Title	View Accepted Orders
Requirement	The restaurant will be able to view all the previous accepted orders record
Source	Developer
Rationale	The restaurant may want to view list of all the orders that were accepted by it
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.6.3<Click on Back Button >

Table 14: Click on Back Button

Identifier	FR-8.6.3
Title	Click on Back Button
Requirement	The restaurant will be able to go back to the main menu
Source	Developer

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Rationale	The restaurant may want to perform other actions
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.1<Click on Delivered Orders Button >

Table 15: Click on Delivered Orders Button

Identifier	FR-8.7.1
Title	Click on Delivered Orders Button
Requirement	The restaurant will be able to click on this button to view all the delivered orders record
Source	Developer
Rationale	The restaurant may want to view list of all the orders that were delivered by it
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.2<View Usernames >

Table 16: View Usernames

Identifier	FR-8.7.2
Title	View Usernames
Requirement	The Restaurant will be able to see the names of all users to whom food was delivered.
Source	Developer
Rationale	The restaurant may want to view list of all the orders that were delivered by it
Business Rule	Username must be accurate and greater than 8 digits.
Dependencies	N\A
Priority	High

FR-8.7.3<Click on User Detail Button >

Table 17: Click on User Details Button

Identifier	FR-8.7.3
Title	Click on User Detail Button
Requirement	The restaurant will be able to click on this button to get information of the user who have received the order.
Source	Developer
Rationale	The restaurant may want to view list of all the user details that have received the order.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.4< View User Details>

Table 18: View User Details

Identifier	FR-8.7.4
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ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

Title	View User Details
Requirement	The restaurant will be able to get information of the user who have ordered for food.
Source	Developer
Rationale	The restaurant may want to view list of all the user details that have received the order.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.5< Click on Done Button>

Table 19: Click on Done Button

Identifier	FR-8.7.5
Title	Click on Done Button
Requirement	The Restaurant will be able go back to the main menu
Source	Developer
Rationale	The Restaurant may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.6<Click on Orders to be Delivered Button >

Table 20: Click on Orders to be Delivered Button

Identifier	FR-8.7.6
Title	Click on Orders to be Delivered Button
Requirement	The restaurant will be able to click on this button to view all the orders waiting to be delivered.
Source	Developer
Rationale	The restaurant may want to view list of all the orders that are still not delivered by it
Business Rule (if required)	All orders must be delivered to the requested people.
Dependencies	N\A
Priority	High

FR-8.7.7< Confirmation of Username >

Table 21: Confirmation of Username

Identifier	FR-8.7.7
Title	confirmation of username
Requirement	The Restaurant shall be able to confirm the names of the receivers before delivering the order.
Source	Developer
Rationale	username will be verified.
Business Rule	Username must be accurate and greater than 8 digits.
Dependencies	N\A
Priority	Medium

FR-8.7.8< Click on User Detail Button >

Table 22: Click on User Details Button

Identifier	FR-8.7.8
Title	Click on User Details Button
Requirement	The restaurant will be able to click on this button to get information of the user who have ordered for food.
Source	Developer
Rationale	The restaurant may want to view list of all the user details that have received the order.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.9< View User Details>

Table 23: View User Details

Identifier	FR-8.7.9
Title	View User Details
Requirement	The restaurant will be able to get information of the user who have ordered for food.
Source	Developer
Rationale	The restaurant may want to view list of all the user details that have received the order.
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

FR-8.7.10< Click on Done Button>

Table 24: Click on Done Button

Identifier	FR-8.7.10
Title	Click on Done Button
Requirement	The Restaurant will be able to go back to the main menu
Source	Developer
Rationale	The Restaurant may want to go back to main menu for any other procedure
Business Rule (if required)	N\A
Dependencies	N\A
Priority	High

12. Non-Functional Requirements

Nonfunctional requirements of our system are listed below:

Reliability:

- The system will be available on all time as availability is 24/7. So a user can access the website anytime.
- In the event that a server does down, the server will kick in inside an opportunity that the application doesn't quit running.
- In case of a future that lead to a system outage, the MTTR (Mean Time to Repair) should not be more than 2 hours.

Performance.

- Loading time page of any website should not exceed from 5 seconds on DSL broadband connection.
- No of user using the system and internet speed are the main factors that involves in it's working.
- The application should be able to support 100 concurrent users without any performance degradation.

- The website should have a refresh timer of almost 10 seconds.

Supportability:

- The web application should support Google Chrome, Internet explorer, Opera and Mozilla Firefox web browsers.
- The framework should be cost effective.

Usability:

- 96% or the users will complete their task without any assistance.
- Interface of our designed system should be user friendly.
- If a new user is registering an account than it should not take more than 10 seconds to complete his/her request.
- User will have a self-explanatory interface to perform required task.

13. External Interface Requirements

13.1 User Interfaces Requirements

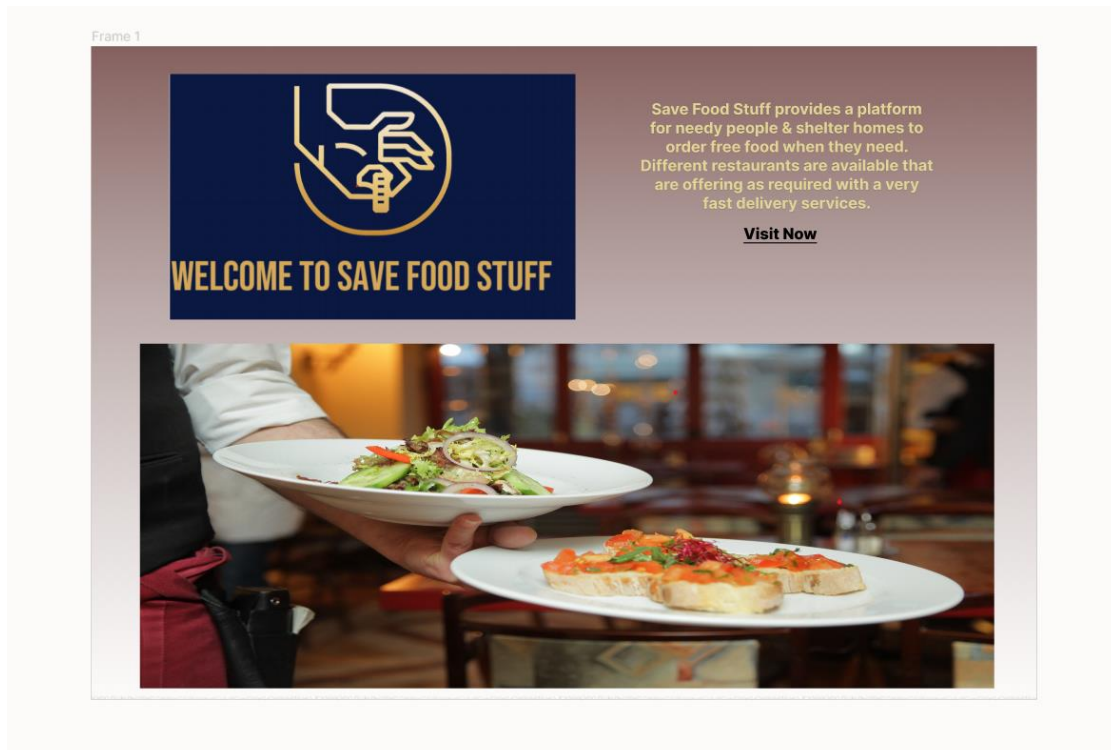


Figure 1: Main Screen of Application.

ASSIGNMENT # 2
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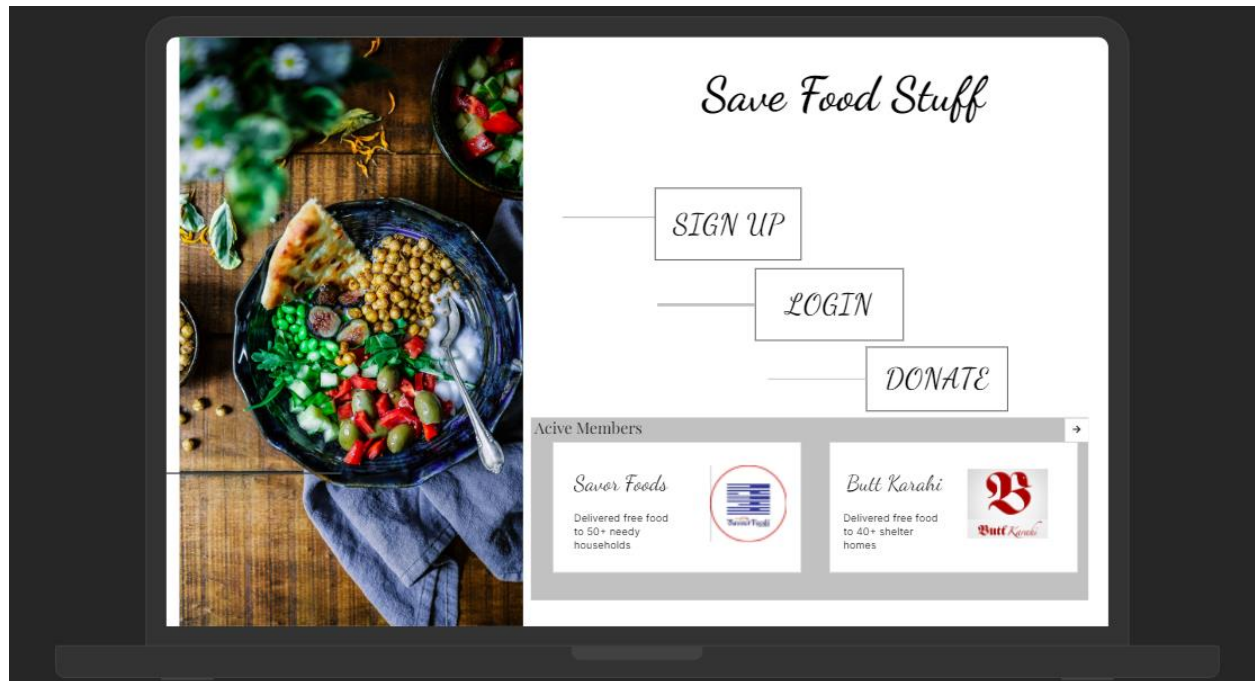


Figure 2:Sign_up & Login Interface

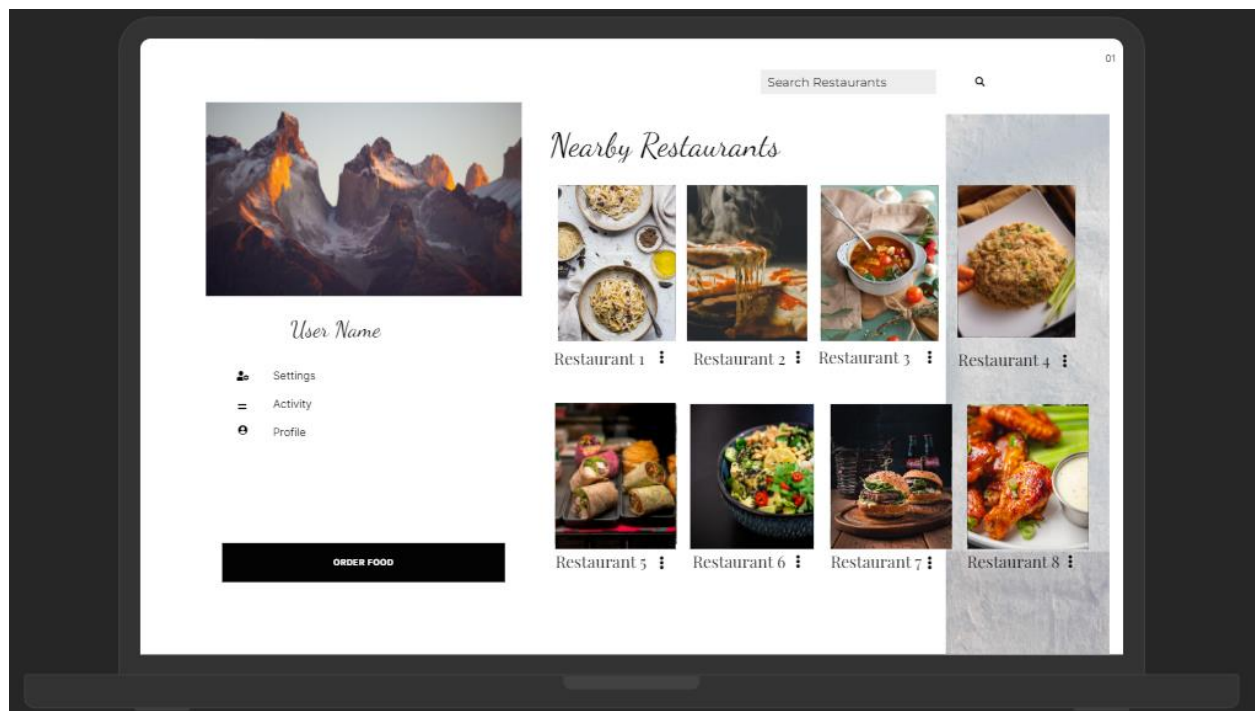


Figure 3: Web Design for Finding Food

13.2 Software interfaces

- MS word is used for project Documentation.
- MS PowerPoint helps for project presentation as well.
- Visual Studio will be used for code editor as I.D.E
- Figma is used for design front end of our application.
- For Designing work Adobe Photoshop will be used.
- Mongo DB will be used as non-relational database.

13.3 Hardware interfaces

No hardware will be used.

13.4 Communications interfaces

- CI-1: The system shall send an update email to a user if it changed its username or password.
- CI-2: At the end of Registration, the system shall send a notification to User whether its registration was approved or not.
- CI-3: In case of privacy violation, warning notifications will be sent to the User's account.
- CI-4: The system shall send a notification to user if its order was placed or not.
- CI-5: The system shall send a notification to restaurant when an order request is received.

14. References

[1] <https://www.unep.org/thinkeatsave/get-informed/worldwide-food-waste>

[2] <https://www.actionagainsthunger.org/world-hunger-facts->

[statistics#:~:text=Around%20the%20world%2C%20more%20than,9.9%20percent%20of%20people%20globally">statistics#:~:text=Around%20the%20world%2C%20more%20than,9.9%20percent%20of%20people%20globally](#)

Work Division:

ASSIGNMENT # 2
SOFTWARE ENGINEERING CONCEPT (CSC-291)

FA20-BCS-029: Purpose, Scope, Product Perspective theory, Operating environment, Use Case diagrams, External interface requirements, Module 1,2,3,8 FRS, Use case tables (restaurant, admin, donor, delivery boy)

FA20-BCS-027: Modules, Overview, Use Case table (user), Module 4,5,6,7 FRS, Non-Functional requirements, Design and Implementation Constraints, User Classes and characteristics, Context Diagram.