



COMSATS University, Islamabad Pakistan

Assignment-05

Project Final Report

For

Save Food Stuff

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Bachelor of Science in Computer Science (2020-2024)

The candidate confirms that the work submitted is their own and appropriate credit has been given where reference has been made to the work of others.



COMSATS University, Islamabad Pakistan

Save Food Stuff

A project presented to
COMSATS University, Islamabad

In partial fulfillment
of the requirement for the degree of

Bachelors of Science in Computer Science (2020-2024)

By

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DECLARATION

We hereby declare that this software, neither whole nor as a part has been copied out from any source. It is further declared that we have developed this software and accompanied report entirely on the basis of our personal efforts. If any part of this project is proved to be copied out from any source or found to be reproduction of some other. We will stand by the consequences. No Portion of the work presented has been submitted of any application for any other degree or qualification of this or any other university or institute of learning.

Student Name 1

Kainat Mudassar

Student Name 2

Maha Farooqi

Executive Summary

“Save food stuff application” 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. This app will prove to be helpful for all the needy. However, this document also shows how long the testing will take and modules and use cases will also be tested. This whole application is developed using available tools and different technologies. Along them test case also includes which displayed all the testing performed along their priority level. In this way data and modules that will be required for testing are also stated.

Acknowledgement

All praise is to Almighty Allah who bestowed upon us a minute portion of His boundless knowledge by virtue of which we were able to accomplish this challenging task.

We are greatly indebted to our project supervisor “Mr. Tehseen Riaz Abbasi”. Without their personal supervision, advice and valuable guidance, completion of this project would have been doubtful. We are deeply indebted to them for their encouragement and continual help during this work.

And we are also thankful to our parents and family who have been a constant source of encouragement for us and brought us the values of honesty & hard work.

Student Name 1

Kainat Mudassar

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Maha Farooqi

Abbreviations

SRS	Software Requirement Specification
PC	Personal Computer
SDS	Software Design Specification
TP	Test Plan

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1 Introduction

This chapter provides the overview of the project. The first paragraph of every chapter should provide the chapter summary.

1.1 Project Major Category:

Our project is web based application.

1.2 Brief

As this Save food stuff is web based application we have used a v-shaped process model in this system because it involves side by side testing of whole developed system.

It would have three logins. One for restaurants, one for admin and one for user (used by shelter homes / needy households). The restaurant login would allow the restaurant to post on their profile whether they have food to donate at the moment or not. They will deliver food to the shelter homes / needy households with very low delivery charges and with free, 15% or 20% bill. In return, they will be given reviews by the user.

The user login will be assigned only to authentic people. The authenticity will be checked by the monthly income and monthly expense report provided by the user. On the user login, all the restaurants in the surrounding areas with food availability would appear and they can place request. The admin login will be used by the admin to manage the whole system effectively. All active members, restaurants along the requests od members will be managed by the admin.

In Donor login, anyone can donate to the selected restaurant or shelter home.

1.3 Project Background

The main purpose of our project “Save food stuff application” is the distribution of extra food from restaurants to different shelter homes in order to help poor and needy people and to avoid food wastage. In last research, a drastic increase can be seen in wastage of food. As per data given by WHO, 20% of the population faces extreme food shortages. On the other hand, It has been calculated that 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

This number of world hunger can be reduced if the excess food that goes into waste is delivered to the needy people instead. Therefore, it is important to come up with a solution that can avoid food waste and can help feed the needy and spread awareness of the food waste issue.

Our proposed system solves the problem of distribution of extra food so that this food is utilized instead of going in trash.

1.4 Related System Analysis/Literature Review

The system analysis related to our system are mentioned below:

<u>Application Name</u>	<u>Weakness</u>	<u>Proposed Project Solution</u>
OLIO – Share more Waste less	<ul style="list-style-type: none"> • Privacy Issues • Everyone have access to open it and use it either for wrong or right intentions. 	<ul style="list-style-type: none"> • Provide proper security to its user. • Makes sure that food only reaches the needy.
SWOT- Food Waste & Recovery	<ul style="list-style-type: none"> • No centralized platform for accurate, actual and transparent data about wasted food in our region. • Complexity makes it challenging to communicate clear messages to target audience and general community 	<ul style="list-style-type: none"> • Support for new and existing value added processors that can preserve wasted food. • Less complex system.
Food Waste Management system	<ul style="list-style-type: none"> • Does not require user registration. 	<ul style="list-style-type: none"> • Only registered user can log in.

1.5 Advantages/Benefits of Proposed System

- Awareness and solution of proper food donation will be spread.
- Keep track of the extra food available at restaurants and donates to needy.
- Poor and needy people will be able to get the food products for free or less amount than usual.
- Both the restaurants (reducing food wastage) and the needy people will be helped.
- Giving reviews will be helpful to restaurants.

1.6 Project Scope

- 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. 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.
- 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 be able to request the desire restaurant to get food easily.
- 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. Lastly, after using this app user has the opportunity to easily "**Log out**" his id from here to avoid privacy and security risks.
- "**Activity**" option will display that user's record.
- 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.
- A login named "**Donation**" will not require any sign up option. The purpose is that if someone wanted to donate money/food then that will be done through this login.
- 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).
- 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.

Context diagram is widely used to define and clarify the boundaries of the software system. So, present a context diagram to model the scope of the targeted project. Figure 1 depicts the context diagram of a cafeteria ordering system.

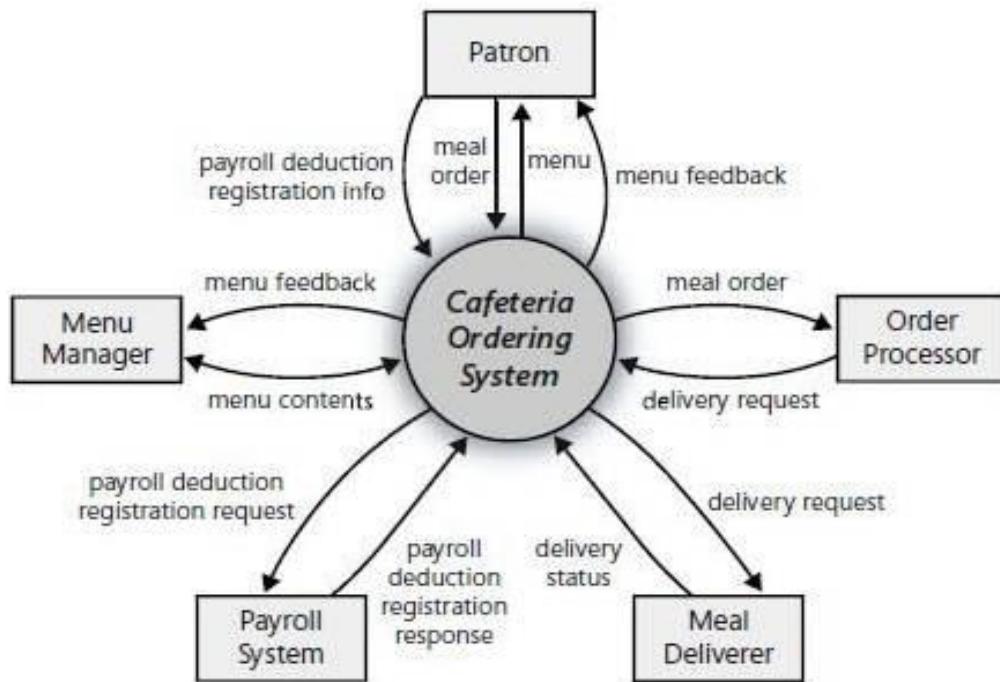


Figure 1: Context Diagram of the Targeted Project.

1.7 Modules

Module 1: Login and Registration

This module is used to login or getting yourself registered in the app.

- **MF 1.1 Login:**
 - Login would be done by using username and password.
- **MF 1.2 Sign up:**
 - User will sign up by income/expenses verification.
- **MF 1.3 Forget Password:**
 - After authenticating, user can forget its password.

Module 2: Donation

On the same page of login, there is a donation menu where anyone can donate as much as they want to whatever restaurant/charity home they like.

- **MF 2.1 Donation to restaurants:**
 - In this option, list of all the restaurants will be mentioned.
- **MF 2.2 Donation to Charity homes/ needy households:**
 - A list of all the registered charity homes/ needy households is mentioned.

Module 3: Settings

In the settings menu, different options are available

- **MF 3.1 How to use?**
 - In this option, user will get complete guidance on how to use this app.
- **MF 3.2 Profile management**
 - User can change its user name, email and phone number.
- **MF 3.3 Logout**
 - User can logout from the app.
- **MF 3.4 Activity**
 - User can view all the recent activities of the order received/dispatched.

Module 4: Find Food

In this menu, all the restaurants in the nearby locality will be mentioned that currently have food available.

This restaurant list is based on reviews priority. Restaurants with higher reviews will be on the top. After selecting the restaurant, user can request food per person. This request will also be accepted based on priority.

Module 5: Delivery

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 that if it can pay at least 10 to 15% for the food, it can do so. Otherwise food will be delivered for free.

Module 6: Admin

The admin will be given following options

- **MF 6.1 Active Restaurants/ Members**
 - 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 be displayed to the admin from here.
- **MF 6.2 Send Notification:**
 - Admin also have the authority of sending notification on successfully creating user's account after document validation.
- **MF 6.3 Requests**

- 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 accept the requests of the user that has currently received.
- **MF 6.4 View Rating:**
 - Admin can view the ratings of all the restaurants that are serving to both needy and shelter homes.

Module 7: Reviews

On the front page, with find food and settings, reviews option is also given where a member will give reviews to restaurants that boost that restaurant to top of the list of the restaurants that can be given donations.

Module 8: Restaurants module

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

1.8 System Limitations/Constraints

- If server is down it will not work effectively.
- Proper connectivity of the internet effect it's working.
- Both parties need to have proper internet connection.
- As a lot of requests will reach to admin for verification and it is possible that admin may approve all of them without proper verification this will cause less deserving people also getting registered

1.9 Tools and Technologies

The basic tools and technologies that we have used in our project are mentioned below:

Table 2: Tools and Technologies for the Targeted Project.

	Tools	Version	Rationale
	MS Word	2016	Project Documentation

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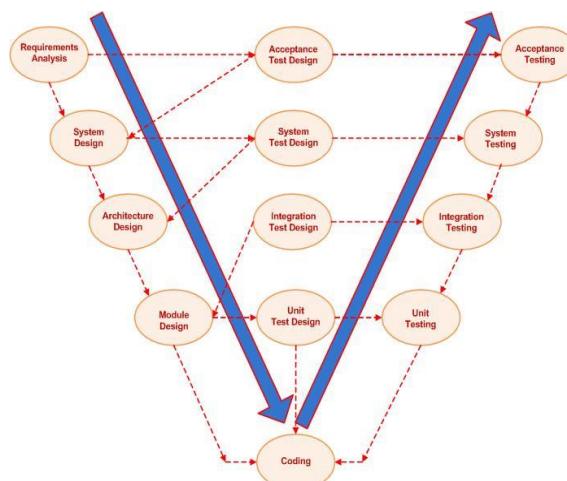
Tools And Technologies	MS PowerPoint	2015	Project Presentation
	Figma	86.1.0	Mockups Creation
	Pencil	3.0	GUI Prototyping
	Visual Studio	1.63	I.D.E
	Visio	2019	Design Work
	Technology	Version	Rationale
	SQL	2013	Query Language
	Java	8.0	Programming Language
	CSS	3	Designing Language
	HTML	5	Web Development

1.10 Relevance to Course Modules

A brief explanation of how your project is related to various courses studied during BCS.

1.11 Design and Process Methodology for This Project

Object oriented approach will be used as the Design Methodology. Changes can be easily done in the Object Oriented. However, there are some basic concepts which are useful to this methodology which includes Inheritance, Polymorphism, Composition, Aggregation and reusability of code. These are helpful during implementation of designed software. Different process models have been identified for designing software which includes Waterfall/Modified Waterfall model, V-Shaped model and Evolutionary process model as



well. But here V-shaped Process Model will be adopted in our project because the testing and production of features will be going side by side.

1.11.1 Rationale behind Selected Methodology

We have selected Object oriented approach for the development of our system.

- Flexibility through polymorphism.
- Effective problem solving.
- Modularity for easier troubleshooting. When working with object-oriented programming languages, you know exactly where to look when something goes wrong

1.12 Team Members Individual Tasks/Work Division

Explicitly discuss the work division among the team members. Optionally, you may provide the reasoning of the task allocation between/among the team members.

Table 4: Team Member Work Division the Targeted Project.

Student Name	Student Registration Number	Responsibility/ Modules
• Maha Farooqi	• FA20-BCS-029	<p>Assignment 1: Abstract, introduction, problem statement, problem solution, project scope, system limitations, software methodology, data gathering</p> <p>Assignment 2: Purpose, Scope, Product Perspective theory, Operating environment, Use Case diagrams, External interface requirements, Module 1,2,3,8 FRs, Use case</p>

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	<p>tables (restaurant, admin, donor, delivery boy)</p> <p>Assignment 3:</p> <p>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.</p> <p>Assignment 4:</p> <p>User, Admin, Restaurant Screens</p> <p>Assignment 5:</p> <p>Heading 1, 3, 4(half test cases), 6</p>
• Kainat Mudassar	<p>•</p> <p>Assignment 1:</p> <p>Aims and objectives, vision statement, related system analysis, advantages/ benefits, modules, design methodology, gantt chart</p> <p>Assignment 2:</p> <p>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.</p> <p>Assignment 3:</p> <p>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.</p> <p>Assignment 4:</p> <p>Welcome Page, User, Admin, Restaurant Screens</p>

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		Assignment 5: Heading 2, 4(half test cases), 5
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2 Problem Definition

This chapter discusses the precise problem to be solved. It should extend to include the outcome.

2.1 Problem Statement

According to United Nations [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. All over the world [2], more than enough food is produced to feed the world population. But still due to lack of awareness, world hunger is on the rise affecting around 9.9 percent of the people globally. Almost 811 million people go to bed hungry each night.

This number of world hunger can be reduced if the excess food that goes into waste is delivered to the needy people instead.

Our proposed system solves the problem of distribution of extra food so that this food is utilized instead of going in trash.

2.2 Problem Solution for our Proposed System

There is an existing mobile app named “OLIO” where anyone can login and get food and related stuff. There is no authenticity check whether the person is actually needy or not. Our system focuses on delivering the food to shelter homes and households that are actually needy and it is done through proper registration and providing user login. Restaurants that have extra food would upload on their profile the amount of food (per person) they have and on user profile, all the restaurants in that area that currently have food available will be displayed.

2.3 Deliverables and Development Requirements

The main deliverables required for our system are:

- Scope Document
- Software Specification Document
- Software Design Document
- Implementation of the system
- Testing Document

2.4 Current System (if applicable to your project)

This chapter is not applicable on our project.

3 Requirement Analysis

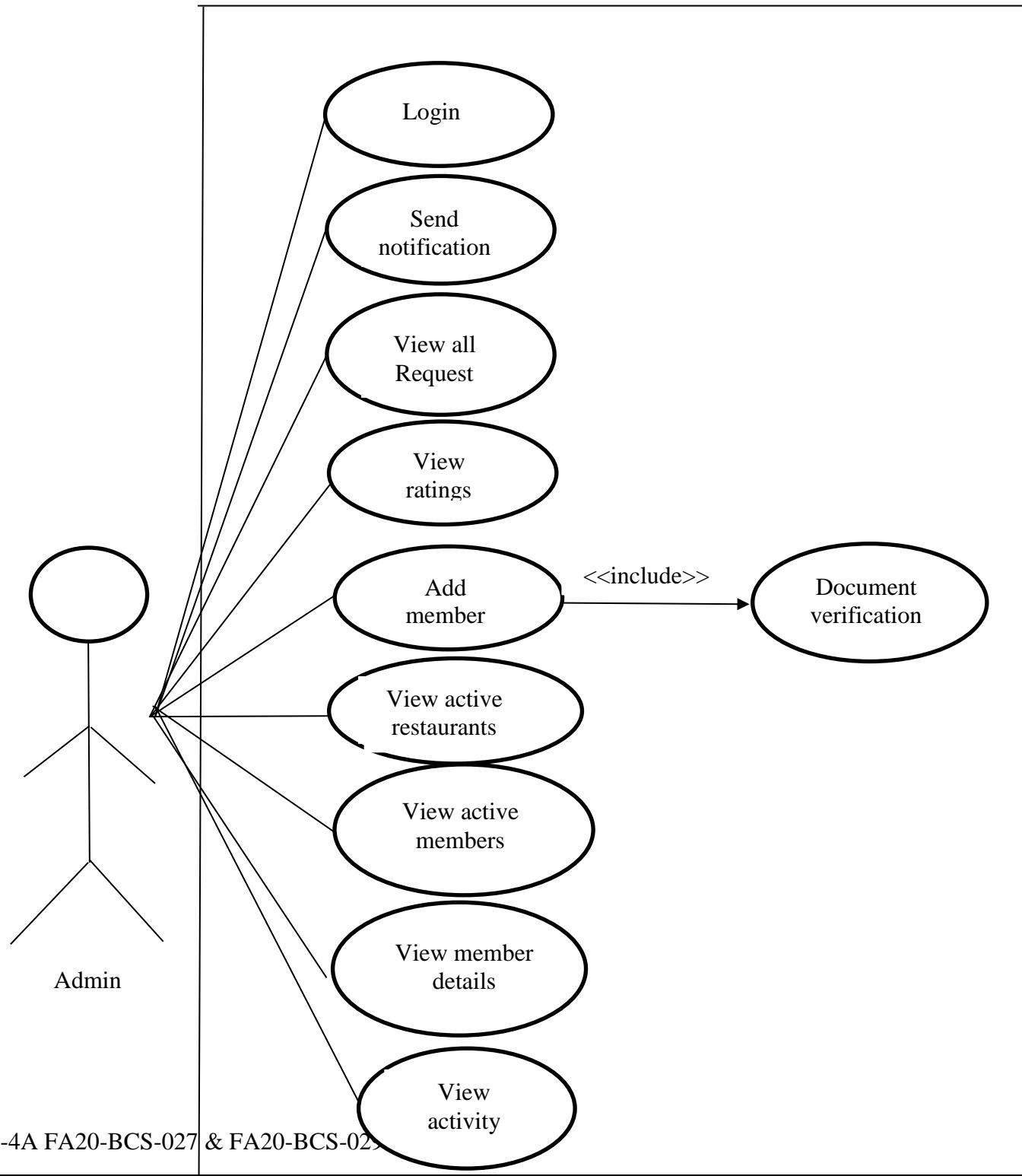
The following parts of Software Requirements Specification (SRS) report should be included in this chapter.

3.1 Requirement Elicitation Techniques

There are many approaches which are beneficial for data gathering. But below are main methodologies that will be used for Data Gathering.

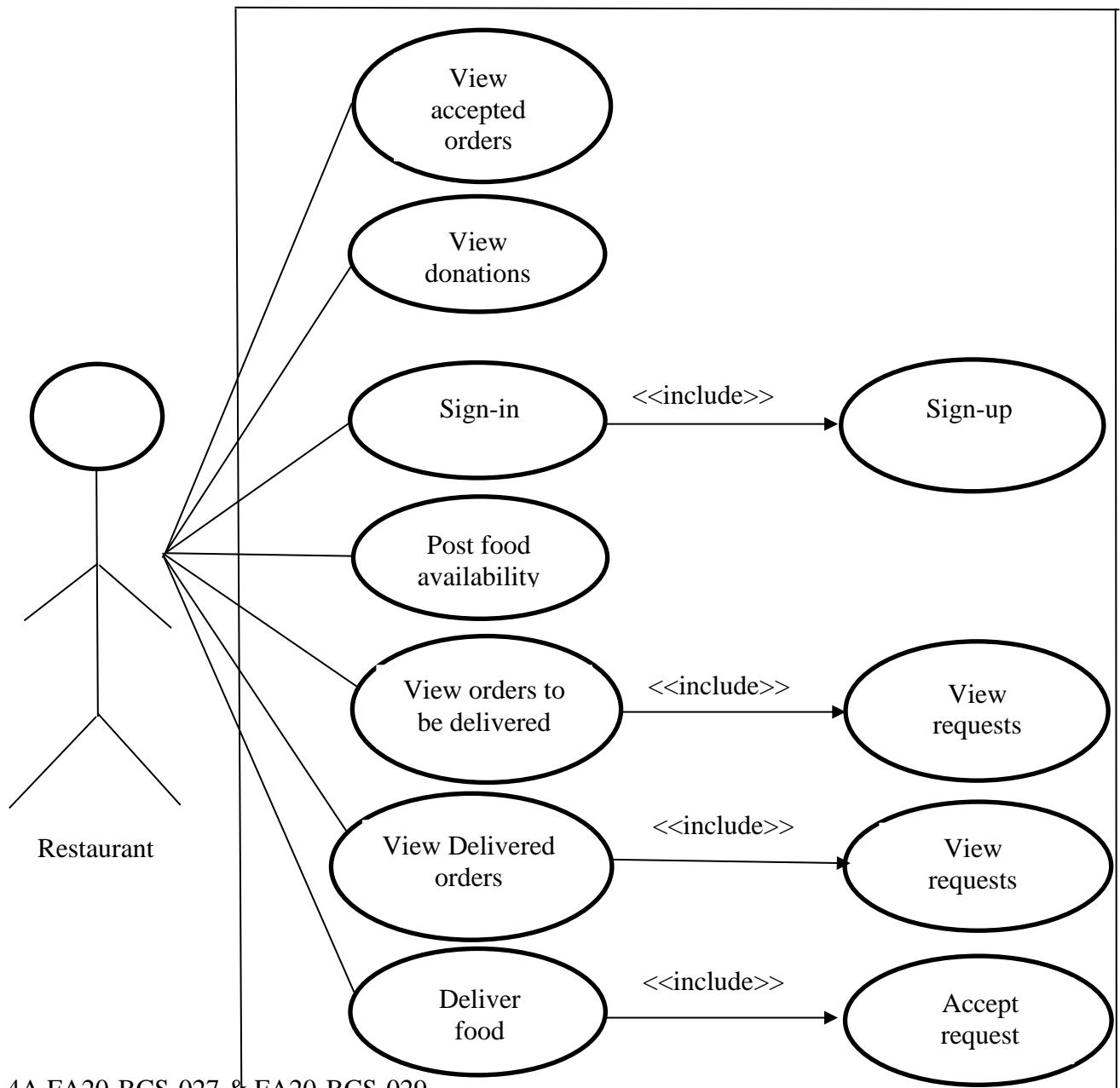
- **Documents and Records** will be seen to gather more information.
- **Questionnaires** will be the main source of gathering requirements.
- **Meeting with Restaurants & Charity homes** also important to make sure that our requirements are accurate and to avoid errors as well.

3.2 Use Cases Diagram



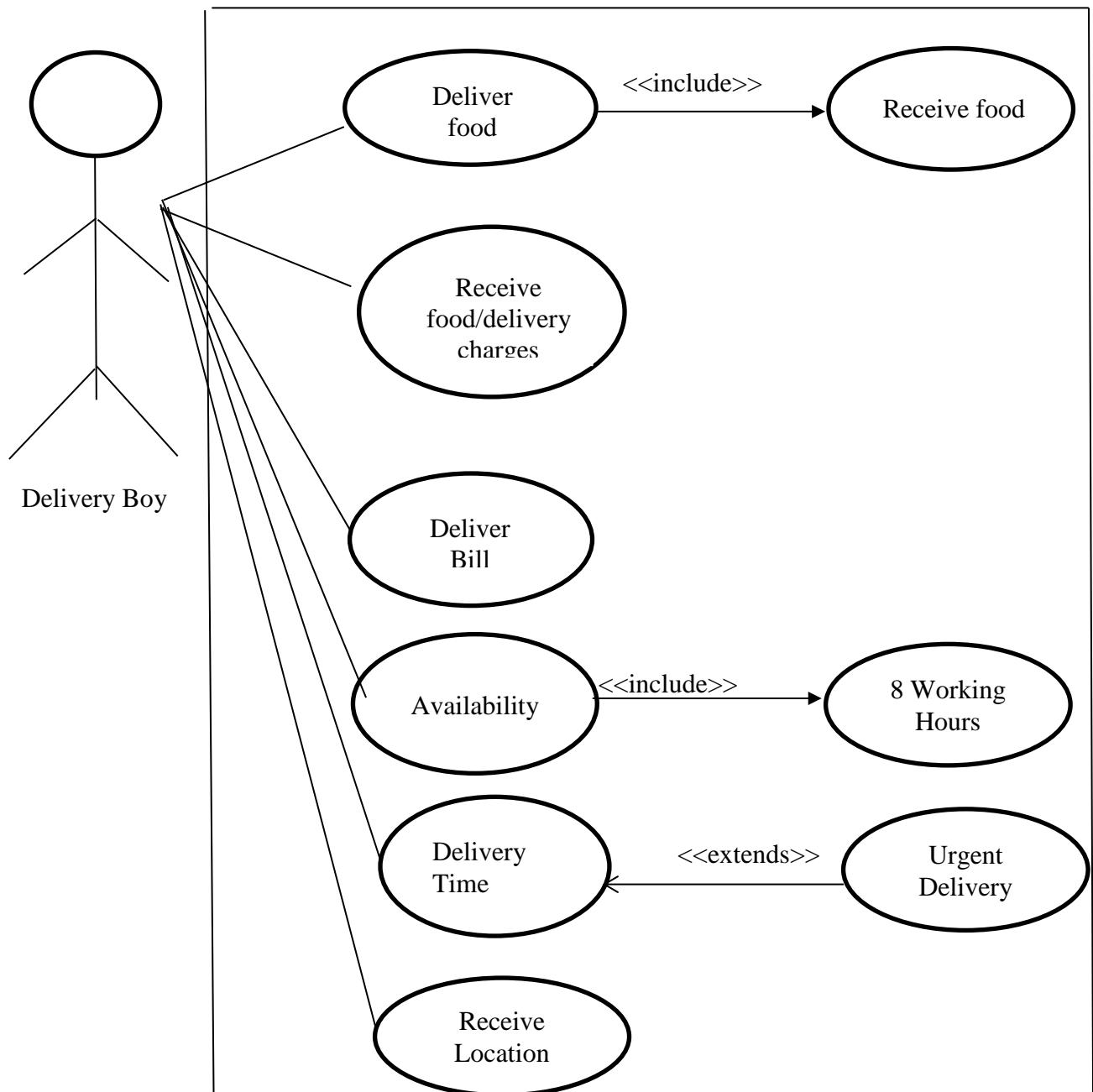
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Figure 2: Use Case Diagram of Admin



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Figure 3: Use Case Diagram of Restaurant



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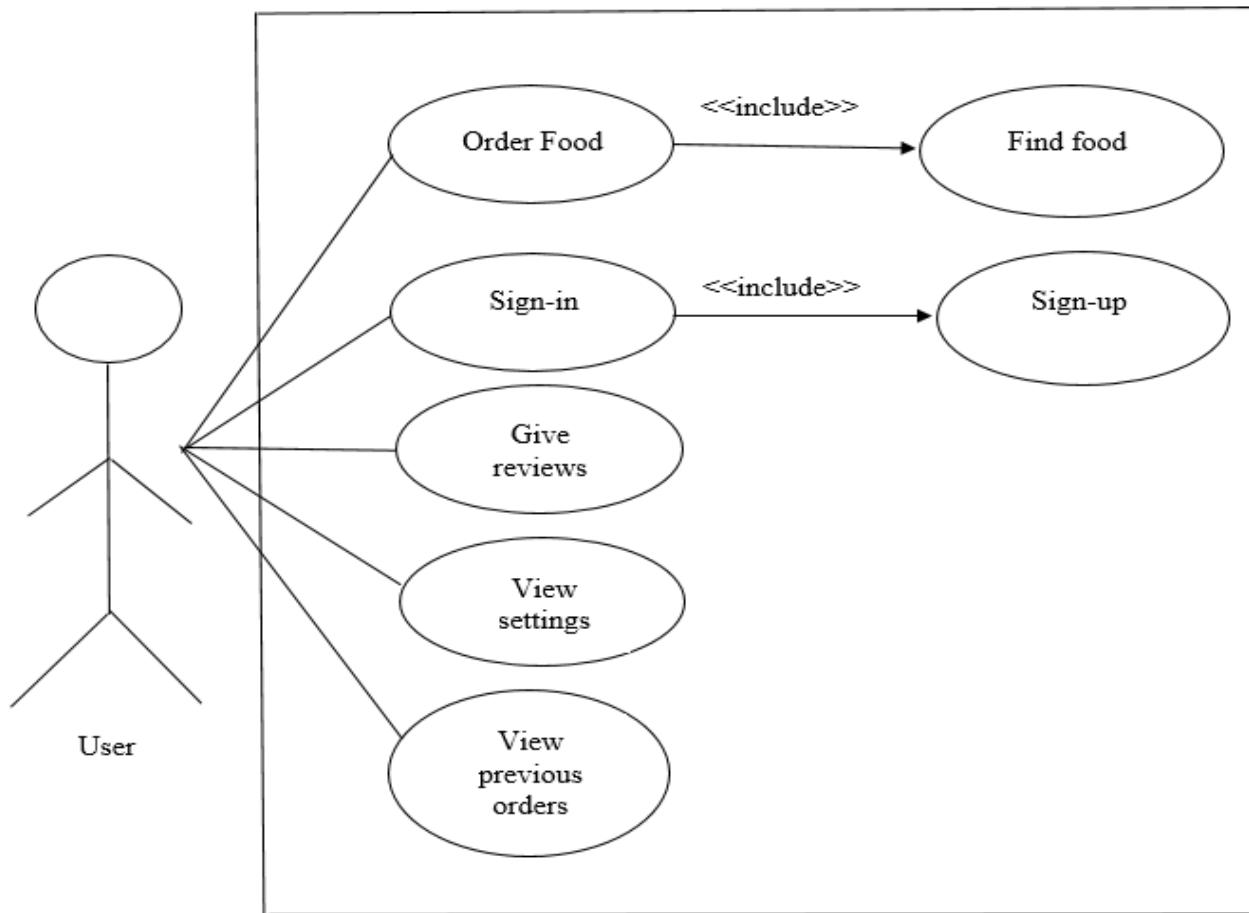


Figure 5: Use Case Diagram of User

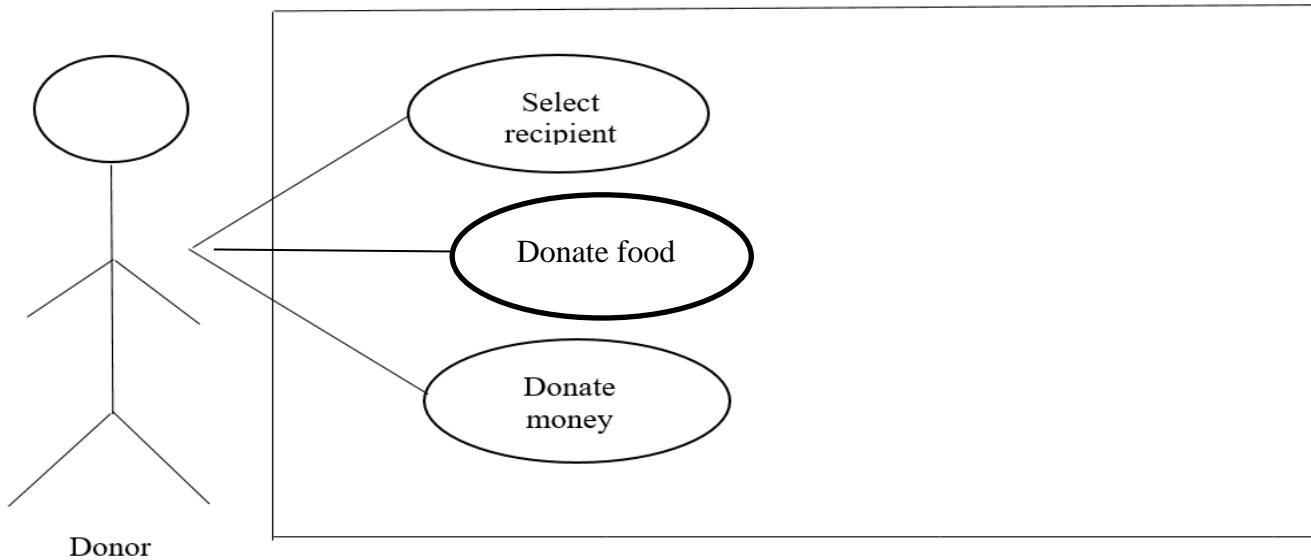


Figure 6: Use Case Diagram of Donor

3.3 Detailed Use Case (Tabular- Module Wise)

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
Use Case Name:	View Ratings as Admin

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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
Post condition:	POST-1: History of the member is displayed
Normal Flow:	<ul style="list-style-type: none"> • Activity button is clicked

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	<ul style="list-style-type: none"> • 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
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A

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

Table 11: View Active User as Admin

Use Case ID:	UC-1.11
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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
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
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
Alternative Flows:	N\A
Exceptions:	N\A
Business roles:	N\A
Assumptions:	N\A

Table 6: View Requests as Restaurant

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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:	-
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.

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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.

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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

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

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	<ul style="list-style-type: none"> • 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
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.

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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. • 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

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

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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

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
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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 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.

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	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 nearly 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:	1. User opens application. 2. Click on the “Reviews” button. 3. Here user will give his/her reviews based on the 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:	1. User opens application. 2. The user enters the required credentials.

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	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:	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.
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 be in his settings page.
Postconditions:	POST-1: Profile details of users will be updated.

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Normal Flow:	<ol style="list-style-type: none"> 1. The user clicks on the profile management button. 2. User 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 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:	The User presses the Cancel Button Instead of Confirm at Step 5 of Normal Flow <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

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	can have clear understanding about it.
Trigger:	The user clicks on the “How to Use application” button.
Preconditions:	PRE-1: The user must be logged in. PRE-2: User must in his settings page.
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

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:	<ol style="list-style-type: none"> 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

3.4 Functional Requirements

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
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
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
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
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
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
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>

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Table 13: Enter New Password

Identifier	FR-1.3.3
Title	Enter New Password
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
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

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
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
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Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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
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
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
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
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Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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
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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.
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.
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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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 to 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
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
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

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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 to 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
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
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

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
Priority	Low

FR-4.1.7 < Settings >

Table 7: Click on Setting Button

Identifier	FR-4.1.7
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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
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 >

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.
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 confirmation box to confirm their logout.
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

Module 5: Find Food

FR-5.1.1 <Click on Find Food >

Table 1: Click on Find Food Button

Identifier	FR-5.1.1
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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
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	FR-5.1.7 <Enter Name >
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	

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
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
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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..
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

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

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
Dependencies	N\A
Priority	High

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
Priority	High

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
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

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
Priority	High

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
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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
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

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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.
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.

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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
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Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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 >

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 displayed.
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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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

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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

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

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SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

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
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
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
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
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
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
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

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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.

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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

3.5 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

4 Architecture and Design

Following are the parts of Software Design Description (SDD) included in this report.

4.1 System Architecture

Develop a modular program structure and explain the relationships between the modules to achieve the complete functionality of the system. This is a high-level overview of how the system's modules collaborate with each other to achieve the desired functionality.

Don't go into too much detail about the individual subsystems. The main purpose is to gain a general understanding of how and why the system was decomposed, and how the individual parts work together.

Provide a diagram showing the major subsystems and their connections. **Use a simple Line-Box-Diagram for simpler systems and detailed diagrams (MVC, Client-Server, Layered, Multi-tiered) for complex systems.**

4.2 Design methodology

Object Oriented approach will be used as the Design Methodology. Changes can be easily done in the Object Oriented, moreover, there are some basic concepts which are useful such as Inheritance, Polymorphism, Composition, Aggregation that results in reusability of code. These are helpful during implementation of designed software.

4.3 Data Representation (ERD , JSON SCHEMA)

JSON SCHEMA:

User schema:

```
const mongoose= require( 'mongoose' )
const UserSchema= mongoose.Schema({
  "Id": {
    description: "this is a unique id of a record",
    type: "Number"
    required: "true"
  },
}
```

```
"Username"
{
  "description": "A user's Username",
  "type": "string",
  required: "true"
},
"email"
{
  "description": "user's email",
  "type": "email",
  required: "true"
},
"password"
{
  "description": "User's password",
  "type": "password",
  required: "true"
},
"Location"
{
  "description": "user's location",
  "type": "string",
  required: "true"
}
“Mobile No”
{
  "description": "user's mobile no",
  "type": "string"
  required: "true"
}

})
module. Exports= monggose.model ( "User " , UserSchema)
```

Restaurant Schema:

```
const monggose= require( 'mongoose' )
const restaurantSchema= monggose.Schema({
  "Id":
  { description: "this is a unique id of a record",
    type: "Number"
    required: "true"
  },
  "name"
  {
    "description": "A restaurant name",
    "type": "string",
    required: "true"
  }
})
```

```
        },
        "email"
    {
        "description": "restaurant's email",
        "type": "email",
        required: "true"
    },
    "password"
    {
        "description": "restaurant's password",
        "type": "password",
        required: "true"
    },
    "address"
    {
        "description": "restaurant's address",
        "type": "string",
        required: "true"
    }
    "phoneNo"
    {
        "description": "restaurant's mobile no",
        "type": "string"
        required: "true"
    }

})
module.exports = mongoose.model("Restaurant", restaurantSchema)
```

Reviews Schema:

```
const mongoose = require('mongoose')
const reviewsSchema = mongoose.Schema({
    "restaurantId": {
        "description": "this is a unique id of restaurant to whom reviews are given",
        type: "Number",
        required: "true"
    },
    "restaurantName": {
        "description": "A restaurant name",
        "type": "string",
        required: "true"
    },
    "comments": {
        "description": "comment reviews given to restaurant",
        "type": "string",
        required: "true"
    }
})
```

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```
required: "true"
}

})
module. Exports= monggose.model ( "Reviews " , reviewsSchema)
```

Payment Schema:

```
const monggose= require( 'mongoose' )
const paymentSchema= monggose.Schema({
  "Id": {
    description: "this is a unique id of a record",
    type: "Number"
    required: "true"
  },
  "debitCard"
  {
    "description": "debit card number through which payment is done",
    "type": "string",
    required: "true"
  },
  "amount"
  {
    "description": "the amount that is to be paid",
    "type": "double",
    required: "true"
  }
})
module. Exports= monggose.model ( "Payment " , paymentSchema)
```

ERD:

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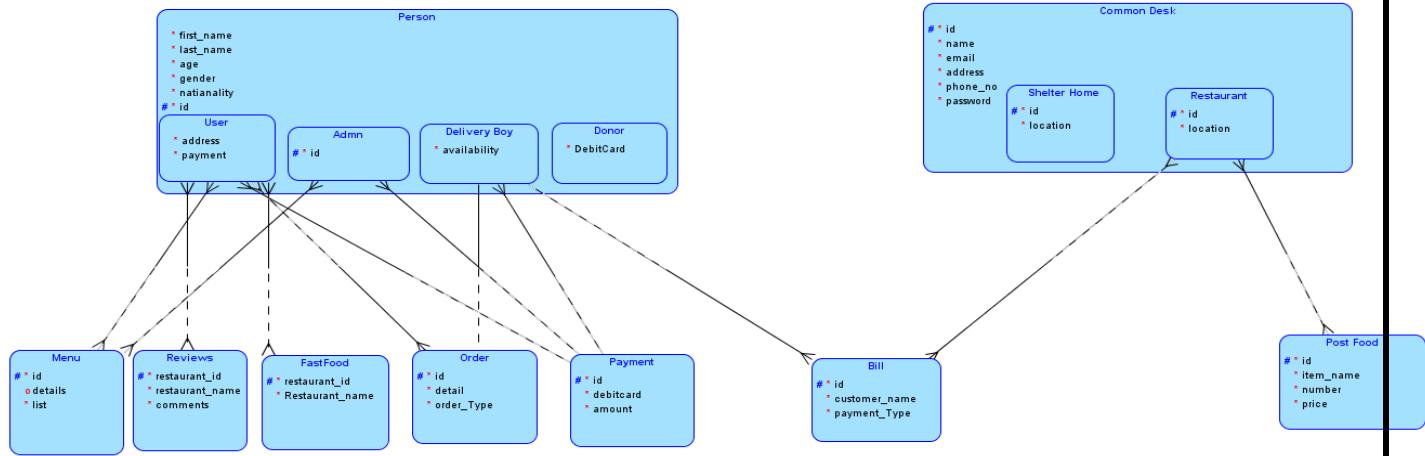


Figure 7: ERD

4.4 Process Flow/Representation

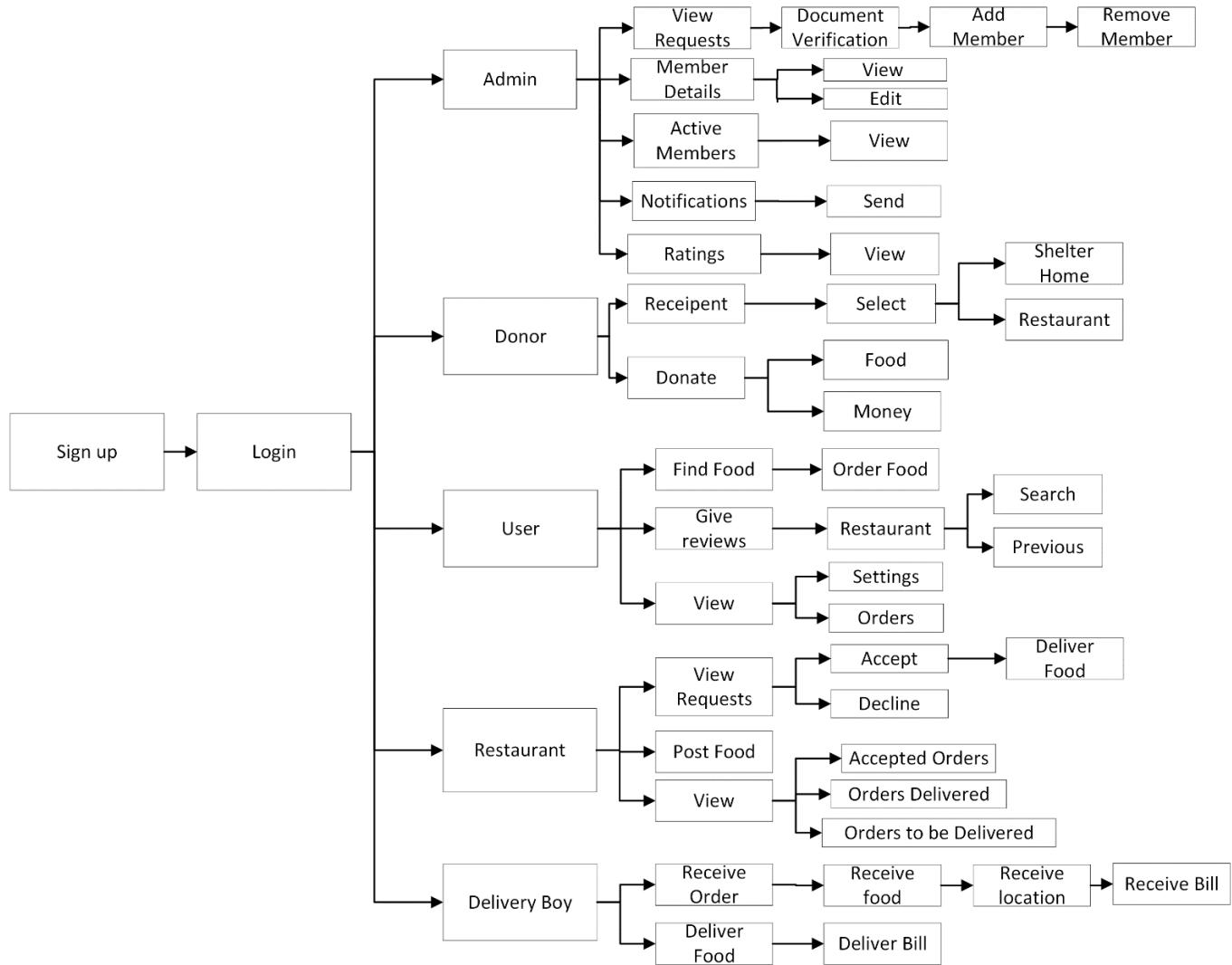


Figure 8: Process Flow Diagram

4.5 Design Models

Following are the design models of our project.

Class Diagram

The class diagram of our project is

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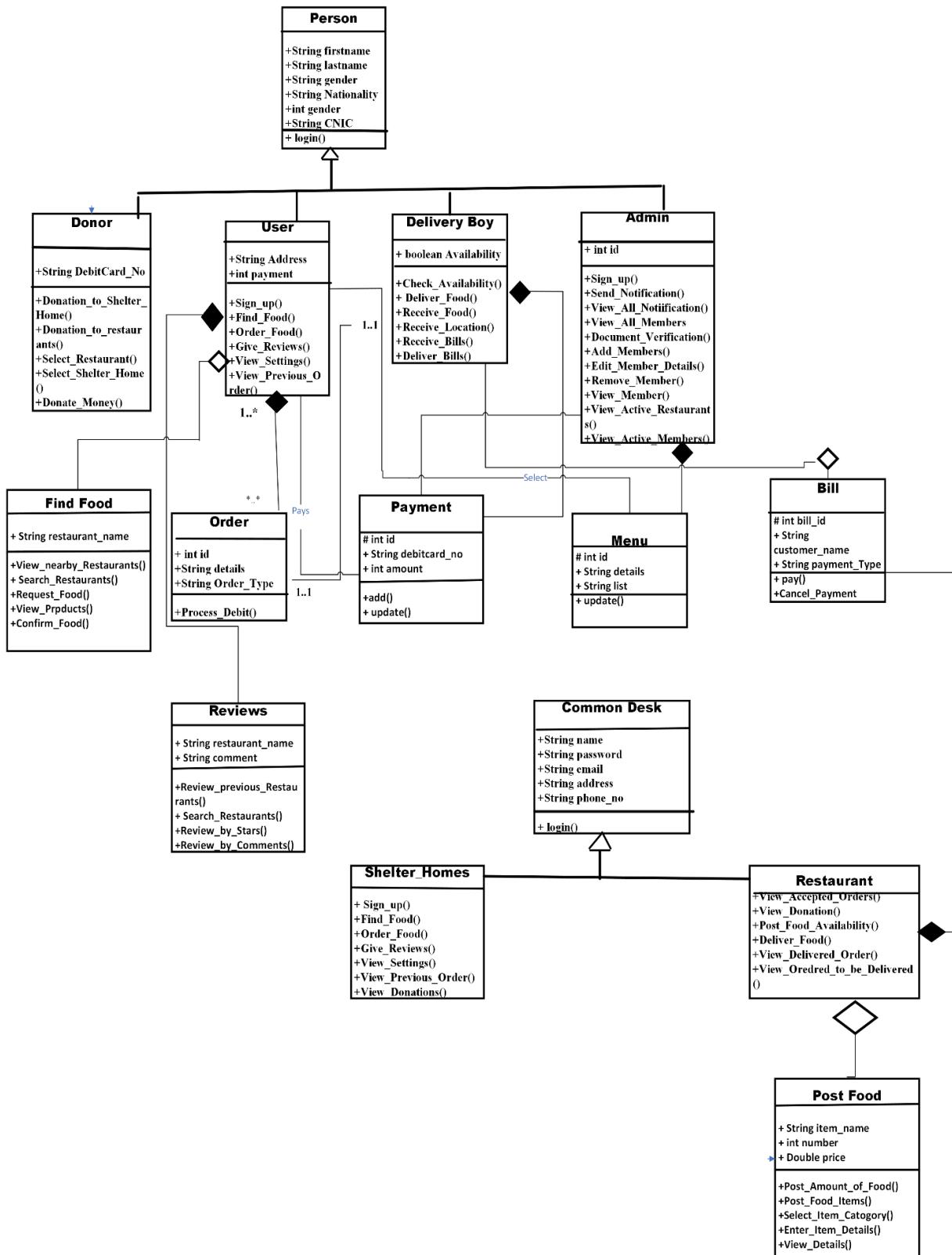


Figure 9: Class Diagram

Sequence Diagram

Sequence diagrams are as follows

Add Member

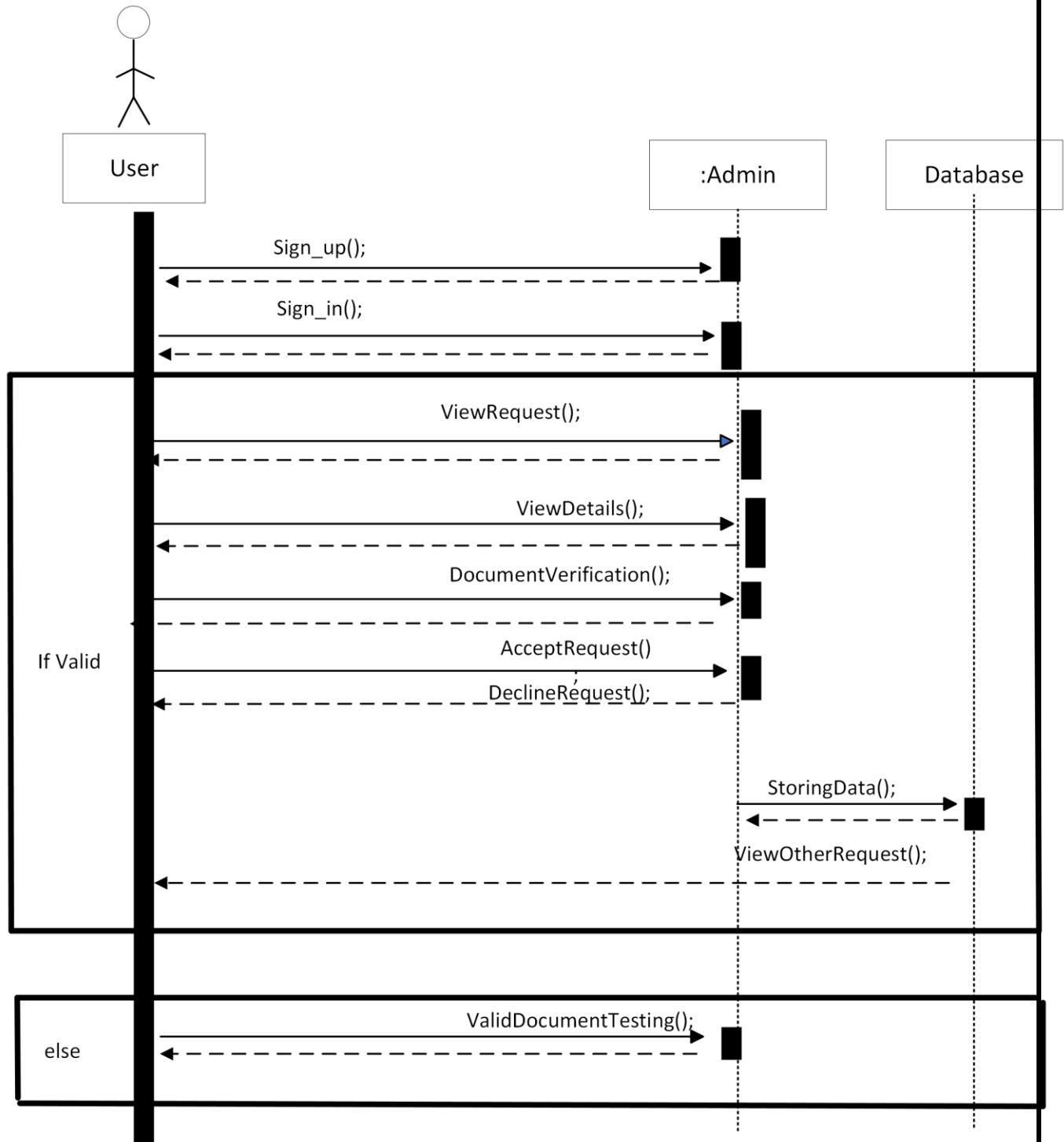


Figure 10 Add Member Sequence Diagram

Delivery

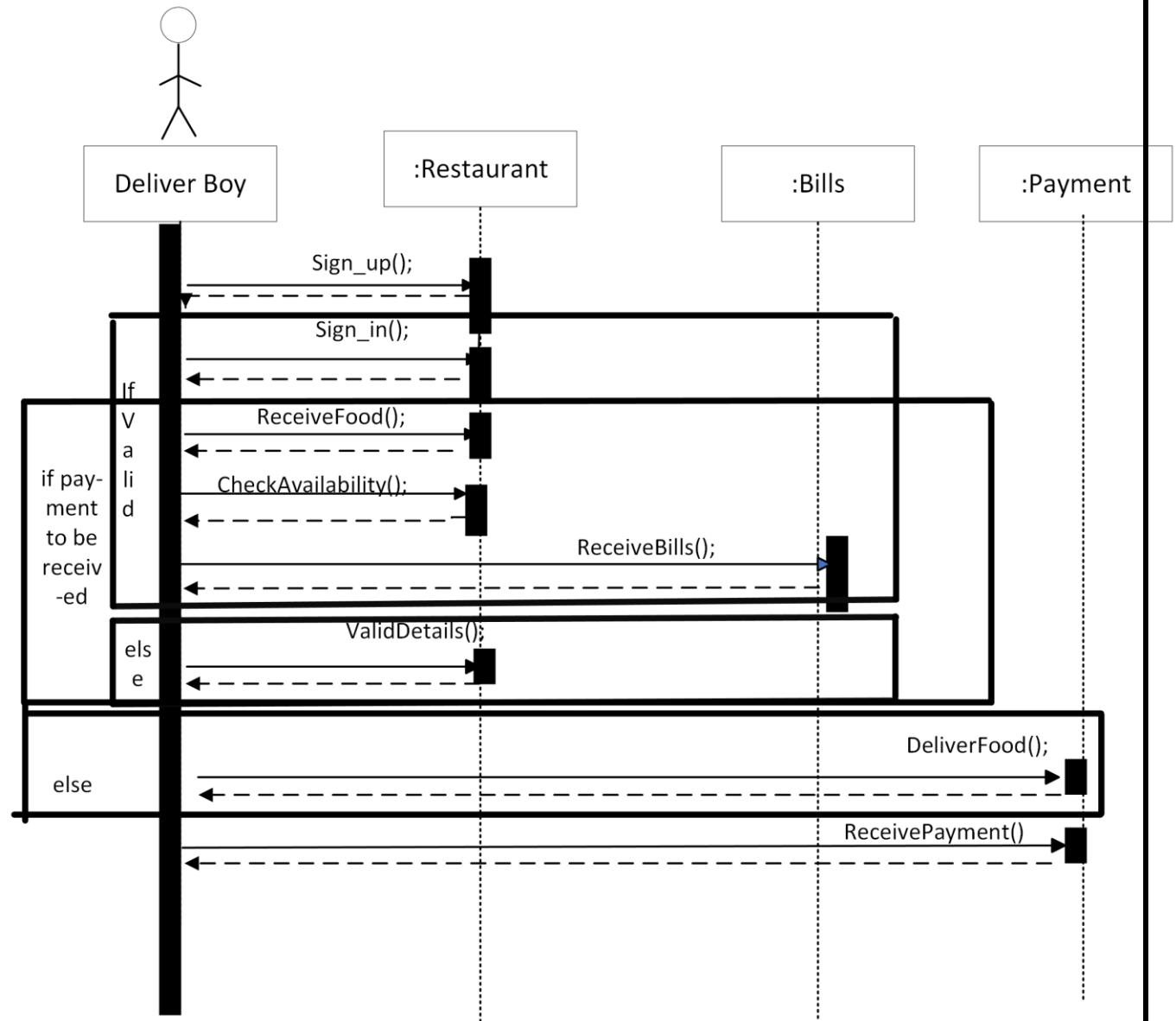


Figure-11: Delivery Sequence Diagram

Reviews:

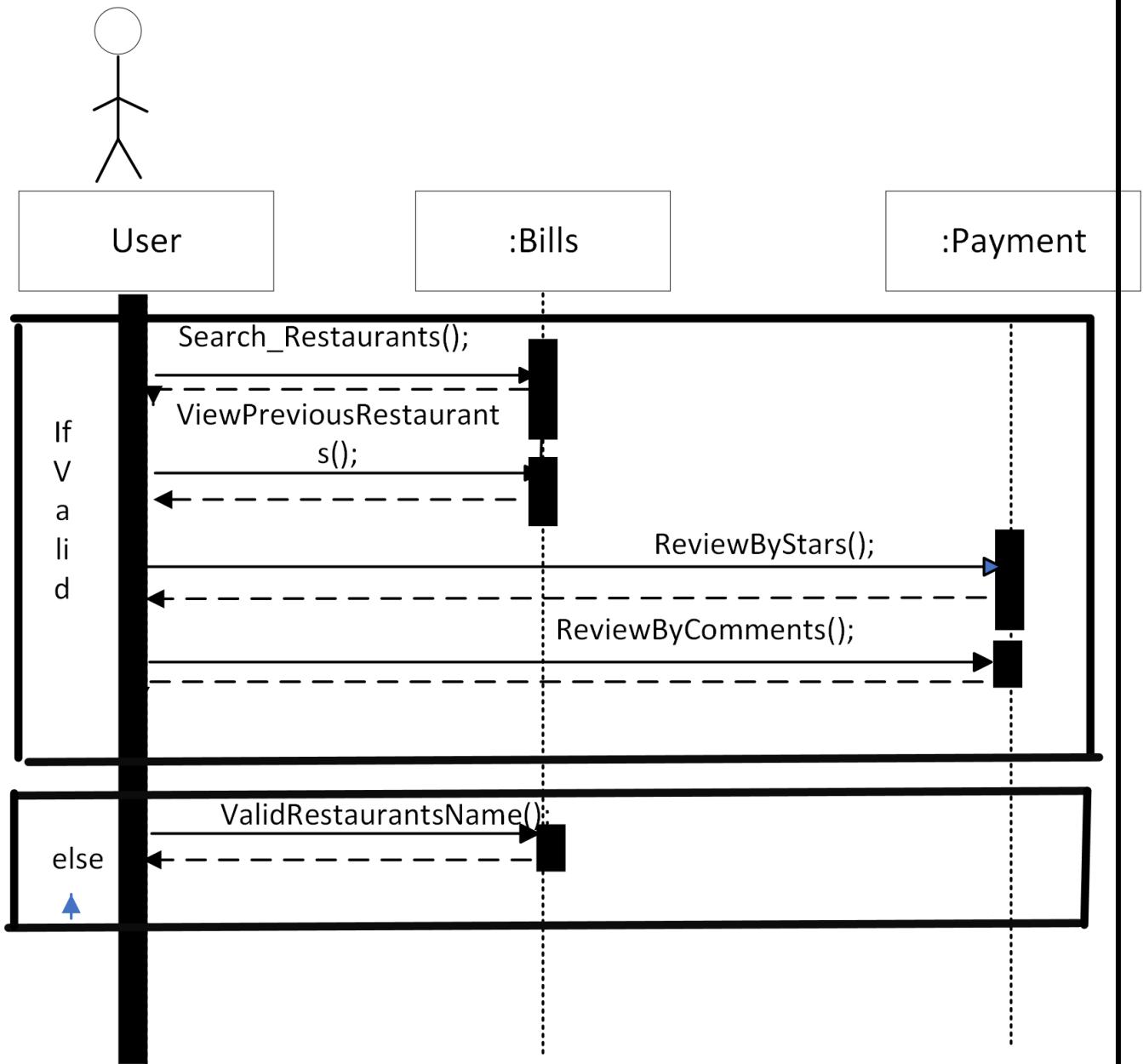


Figure-12: Reviews Sequence Diagram

Find Food:

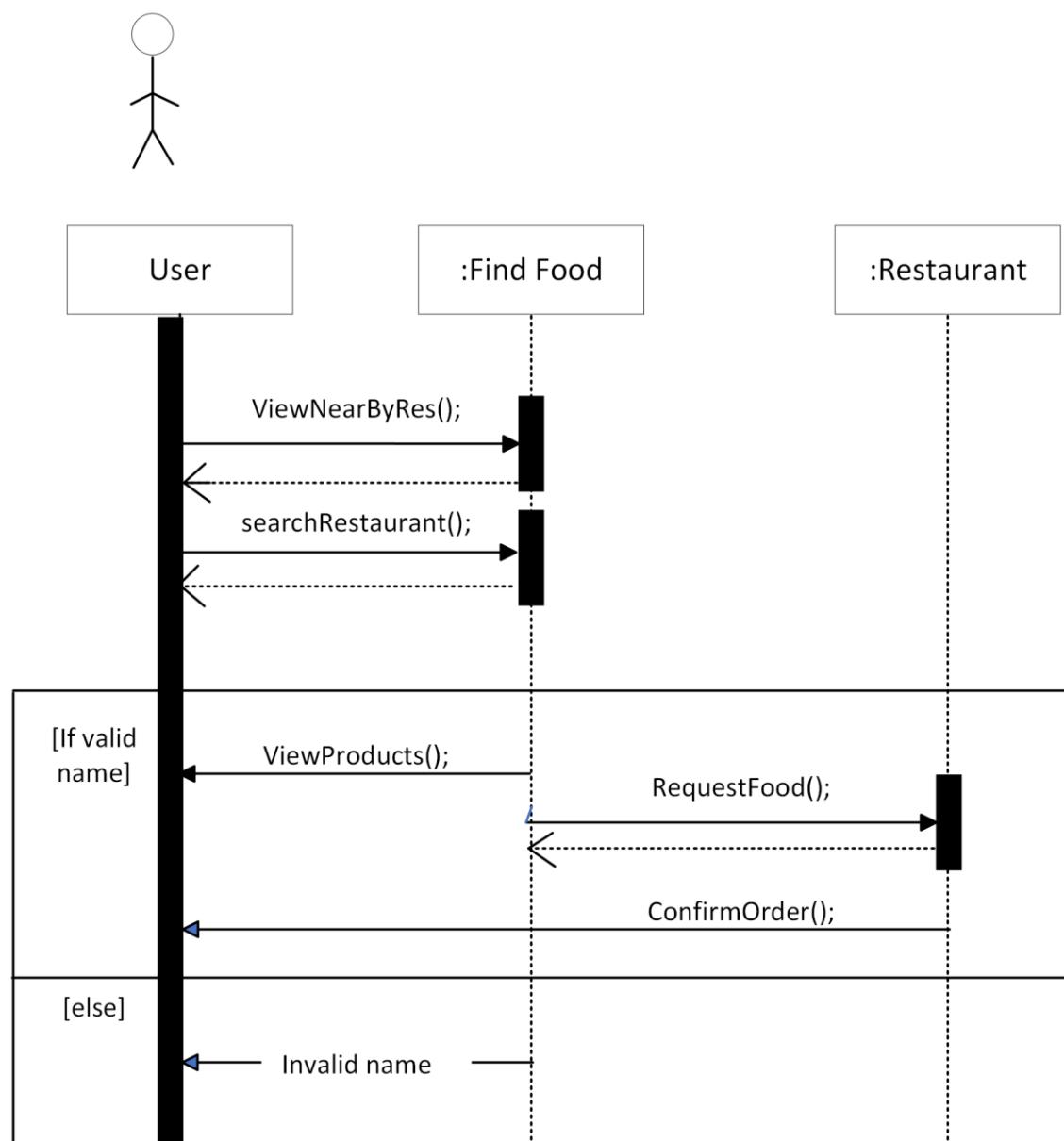


Figure-13: Find Food Sequence Diagram

Post Food

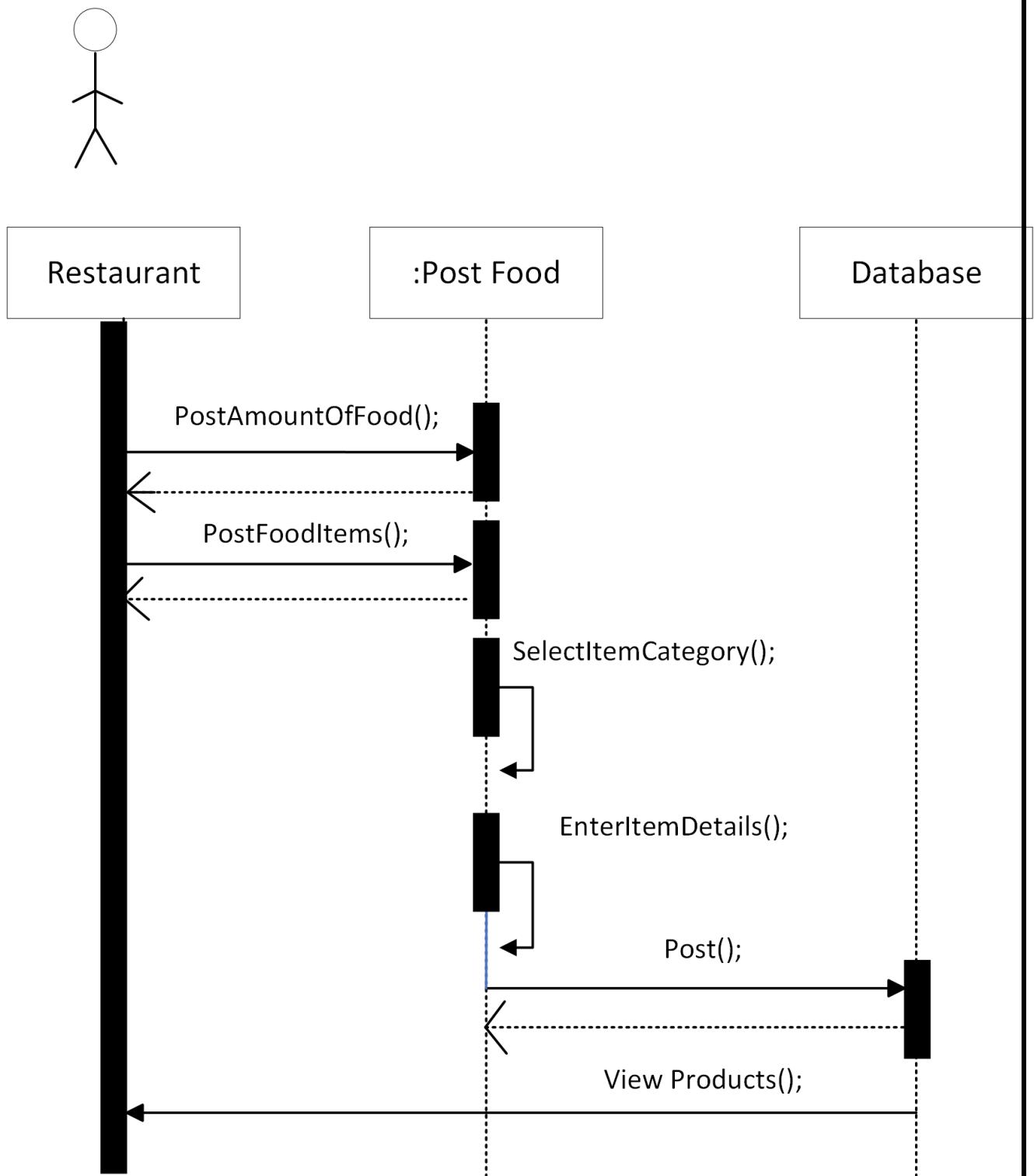


Figure-14: Post Food Sequence Diagram

Donor

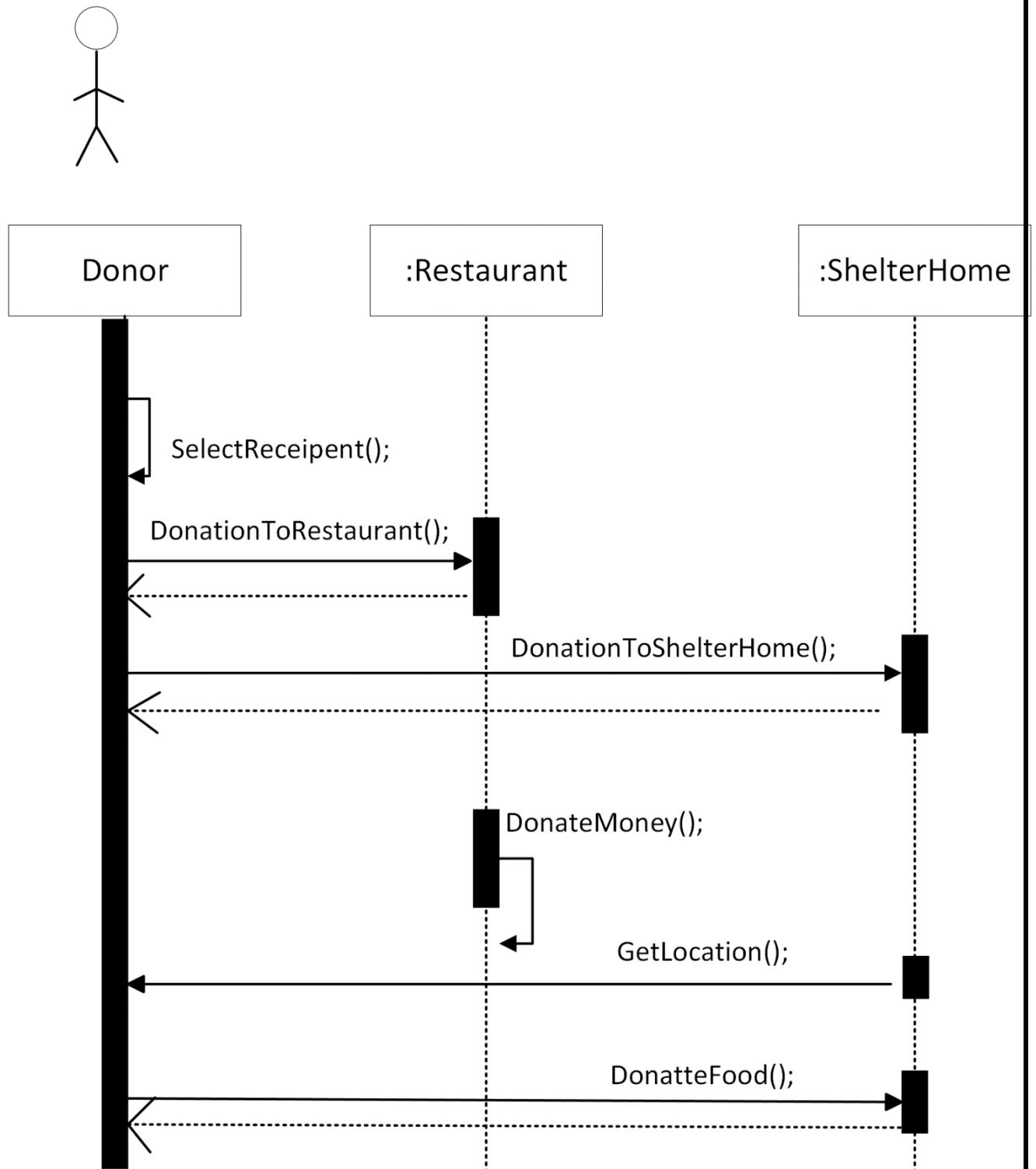


Figure-15: Donor Sequence Diagram

Activity Diagram

Add Member

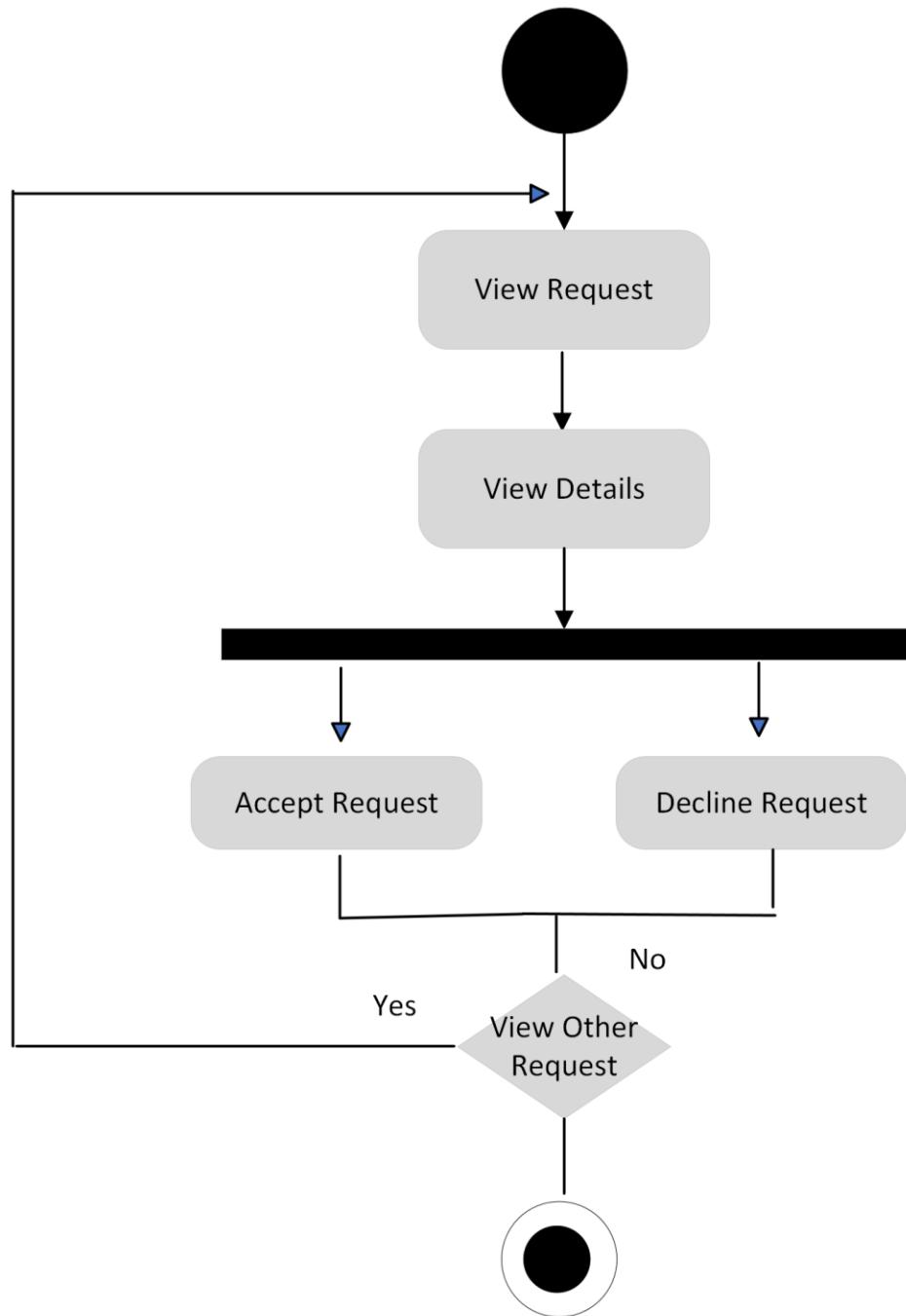


Figure 16: Add Member Activity Diagram

Delivery Boy

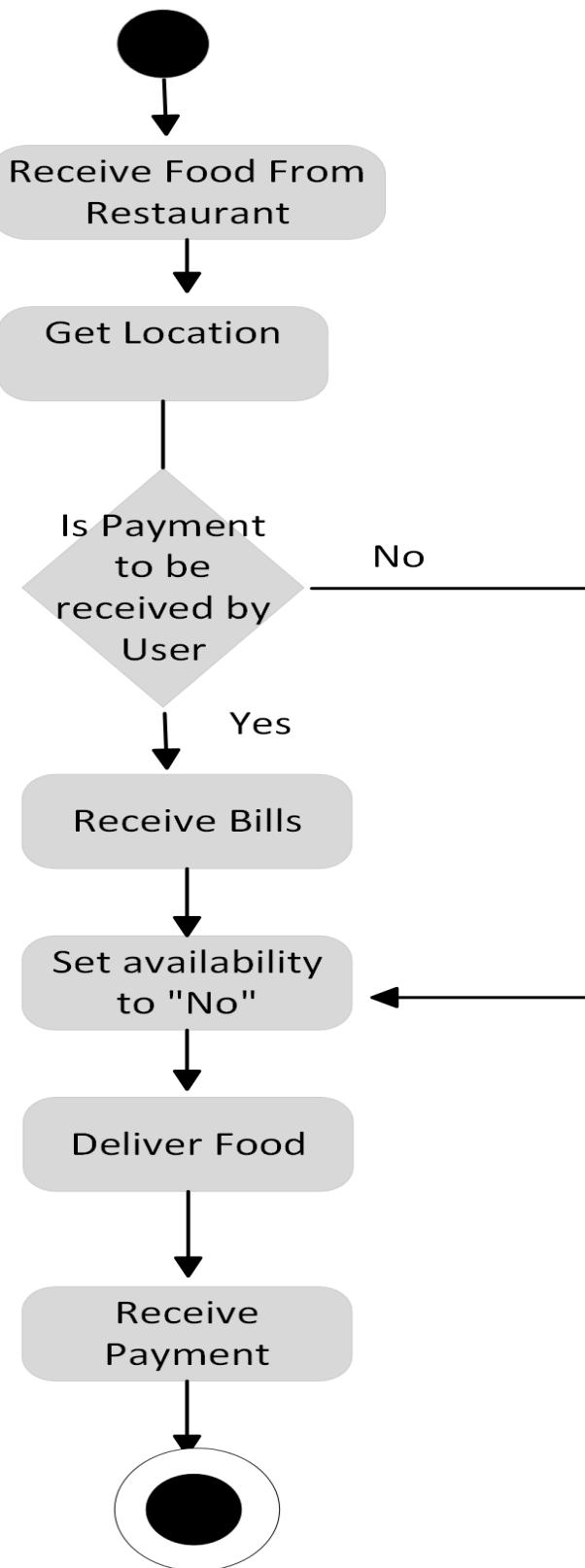


Figure 17: Delivery Boy Activity Diagram

Donation

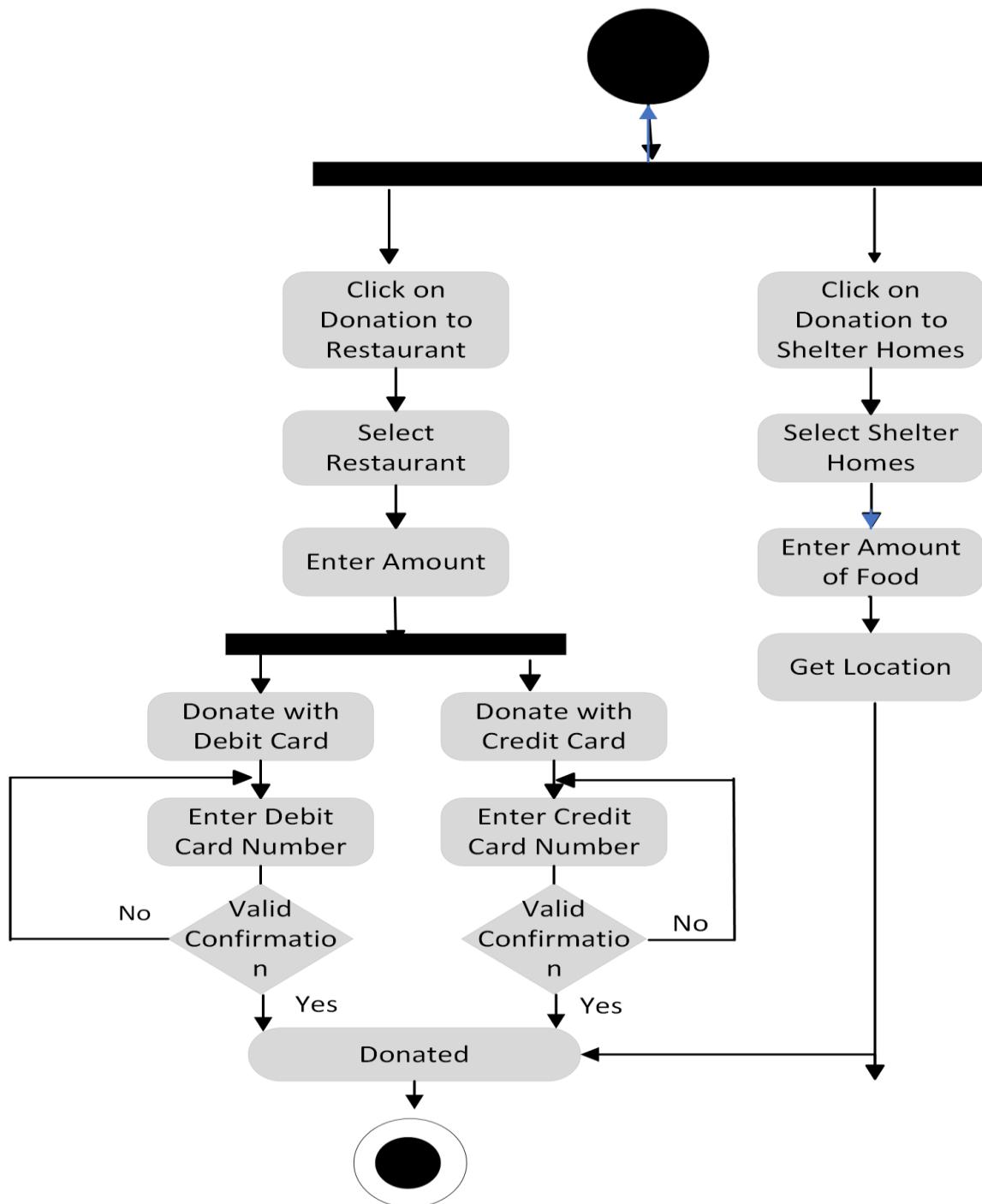


Figure 18: Donation Activity Diagram

Find Food

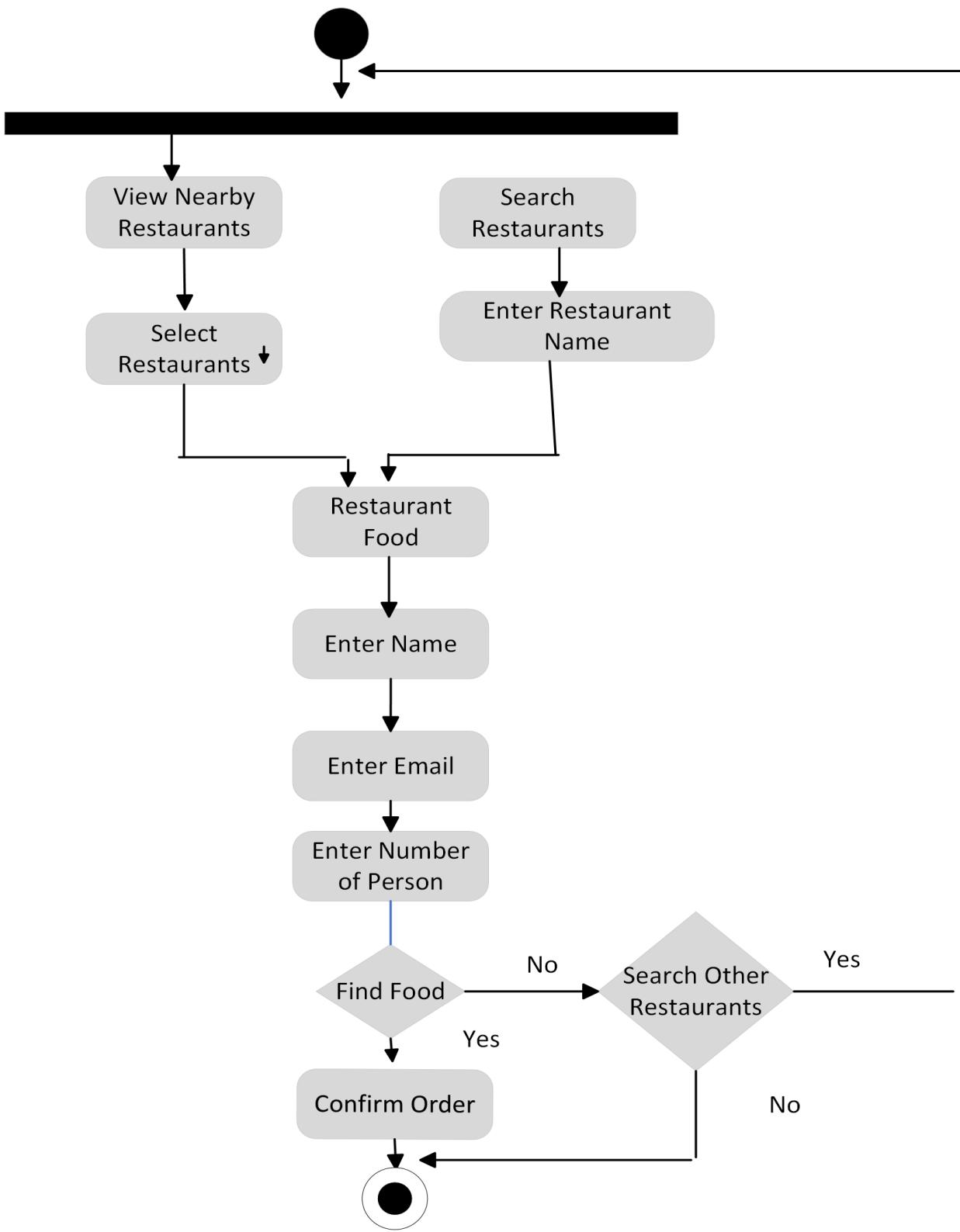


Figure 19: Find Food Activity Diagram

Post Food

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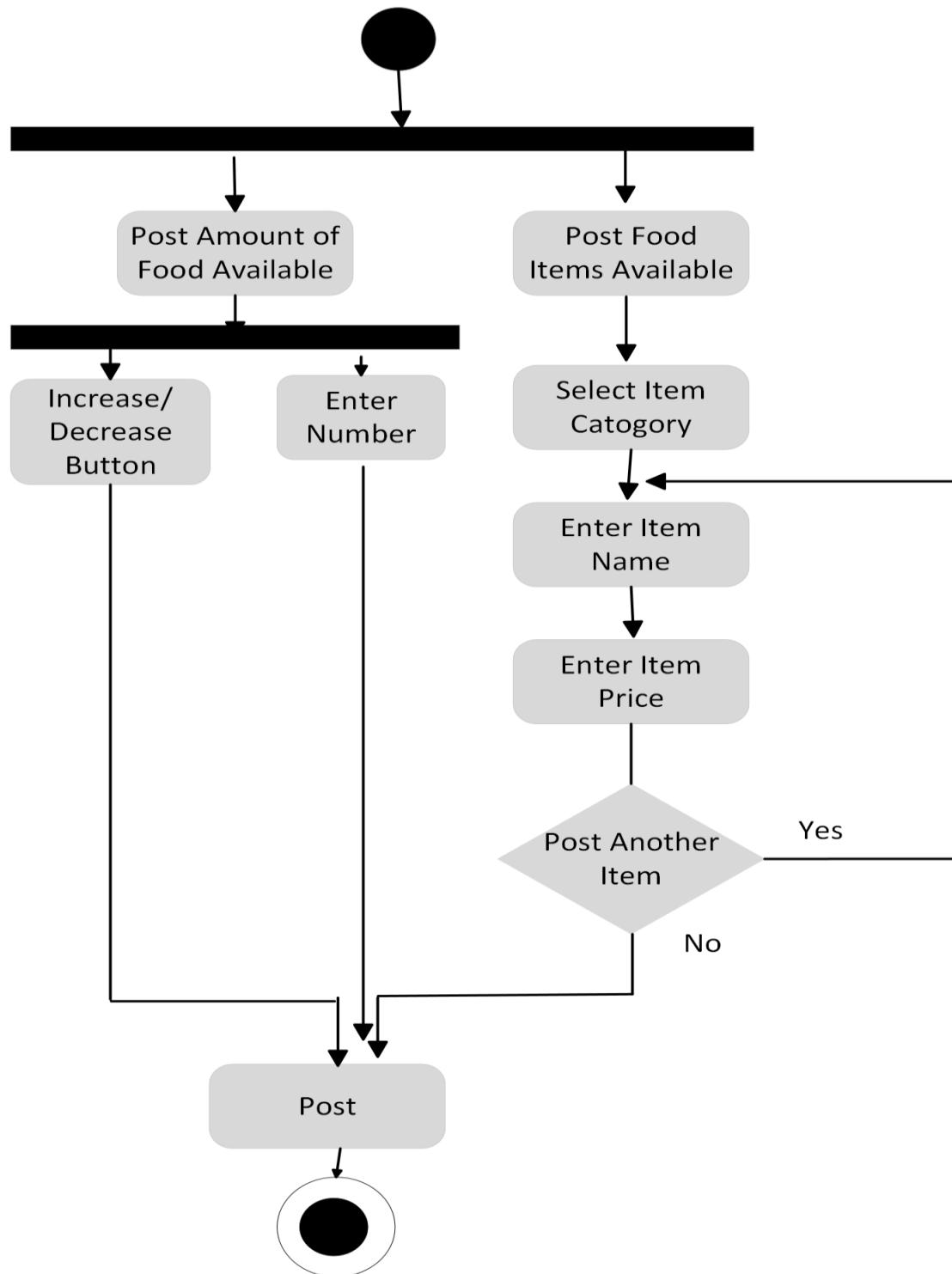


Figure 20: Post Food Activity Diagram

Review

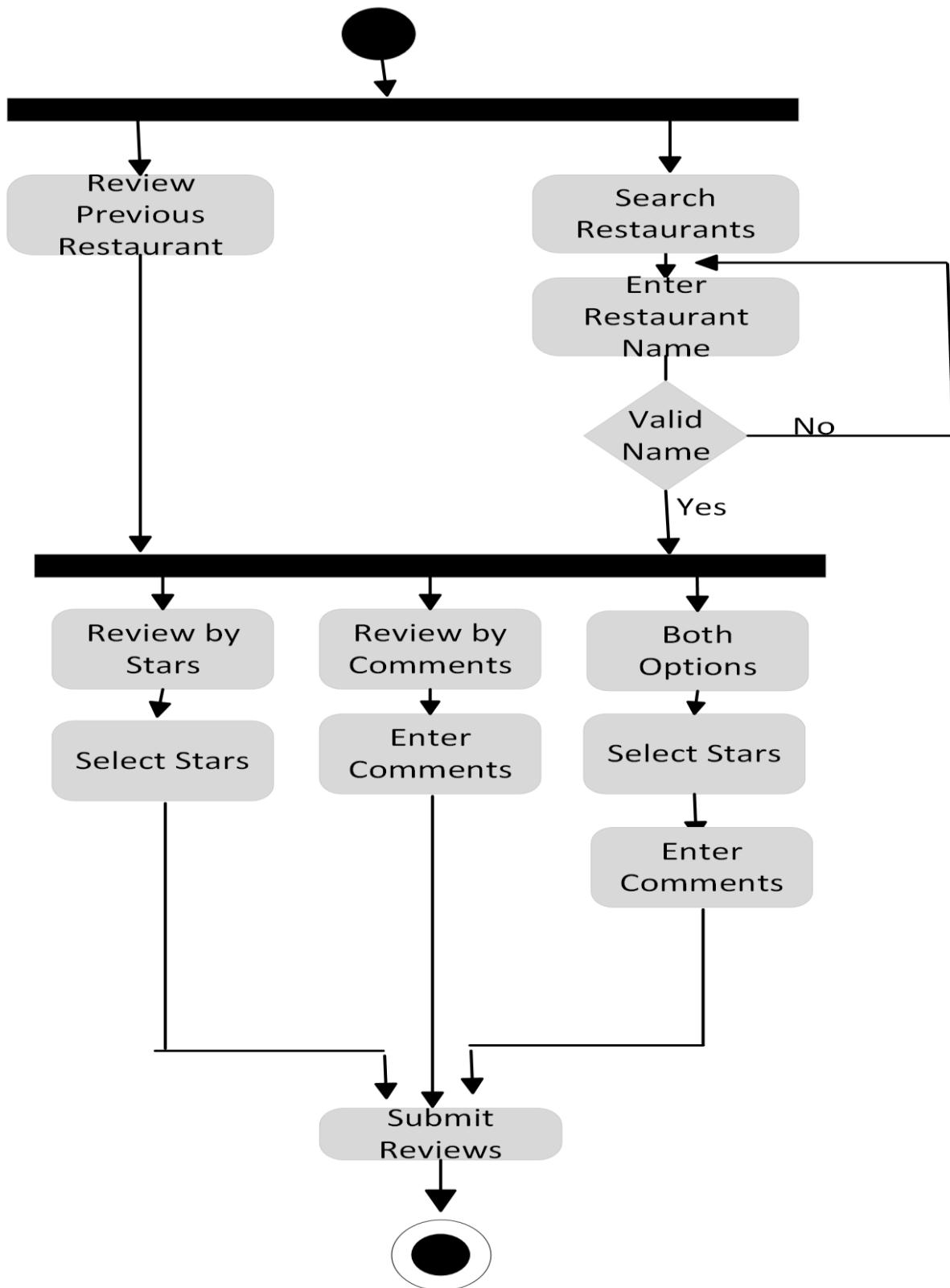


Figure 21: Reviews Activity Diagram

Profile Management

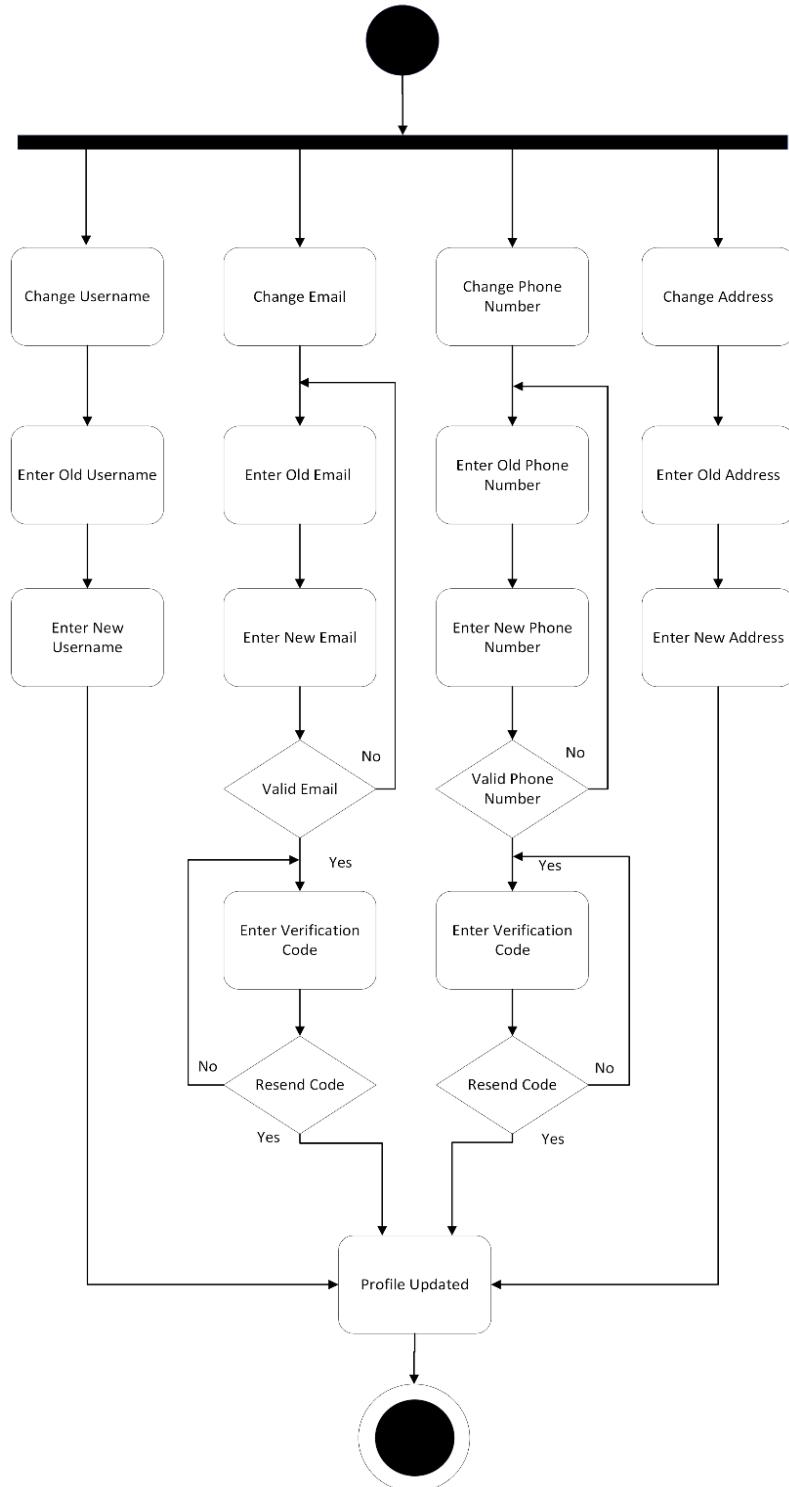


Figure 22: Delivery Boy Activity Diagram

5 Implementation

This chapter will discuss implementation details supported by UML diagrams (if applicable). You will not put your source code here. Any of the following sections may be included based on your project.

5.1 Algorithm

Sign-in algorithm pseudo code:

Allows user to sign in to the system for further actions

1. Enter username
2. Enter password
3. Check if username correct
4. Check if password correct
5. Display message “Signed in successfully”

Sign-in algorithm pseudo code:

Allows user to sign in to the system for further actions

6. Enter username
7. Enter password
8. Check if username correct
9. Check if password correct
10. Display message “Signed in successfully”

Reviews Algorithm pseudo code:

Allows user to give reviews to restaurants

1. Review previous restaurant
2. Search restaurant
3. Enter restaurant name

4. Select stars to give review
5. Enter comment to give review
6. Submit review

Find Food Algorithm pseudo code:

Allows user to find and order food

1. View nearby restaurant
 - a. Select restaurant
2. Search restaurant
 - a. Enter restaurant name
3. Request food
4. Enter name
5. Enter email
6. Enter no. of persons
7. If food available
 - a. Order for free
 - b. Pay 10%
 - c. Pay 15%
 - d. Pay with debit card or COD
 - e. Enter card number
8. Confirm order

5.2 External APIs

Describe the APIs used in the following table.

Table 1 Details of APIs used in the project

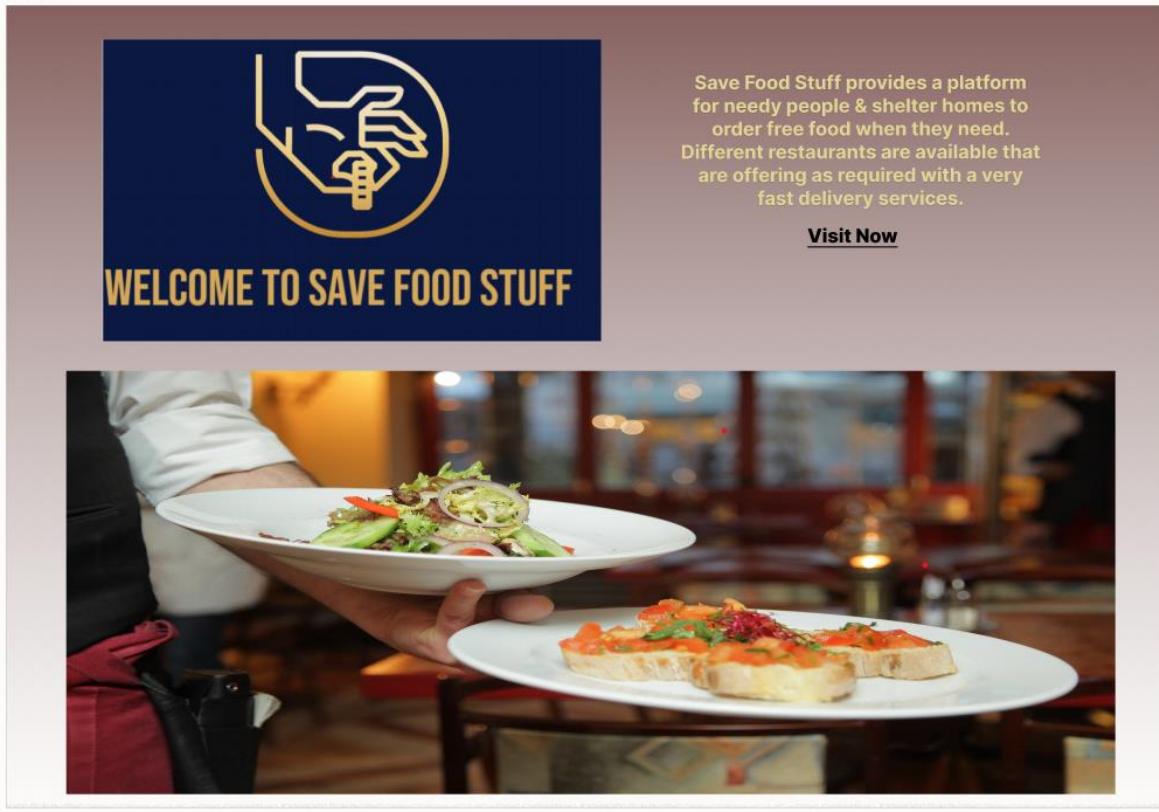
Name of API	Description of API	Purpose of usage	List down the function/class name in which it is used

5.3 User Interface

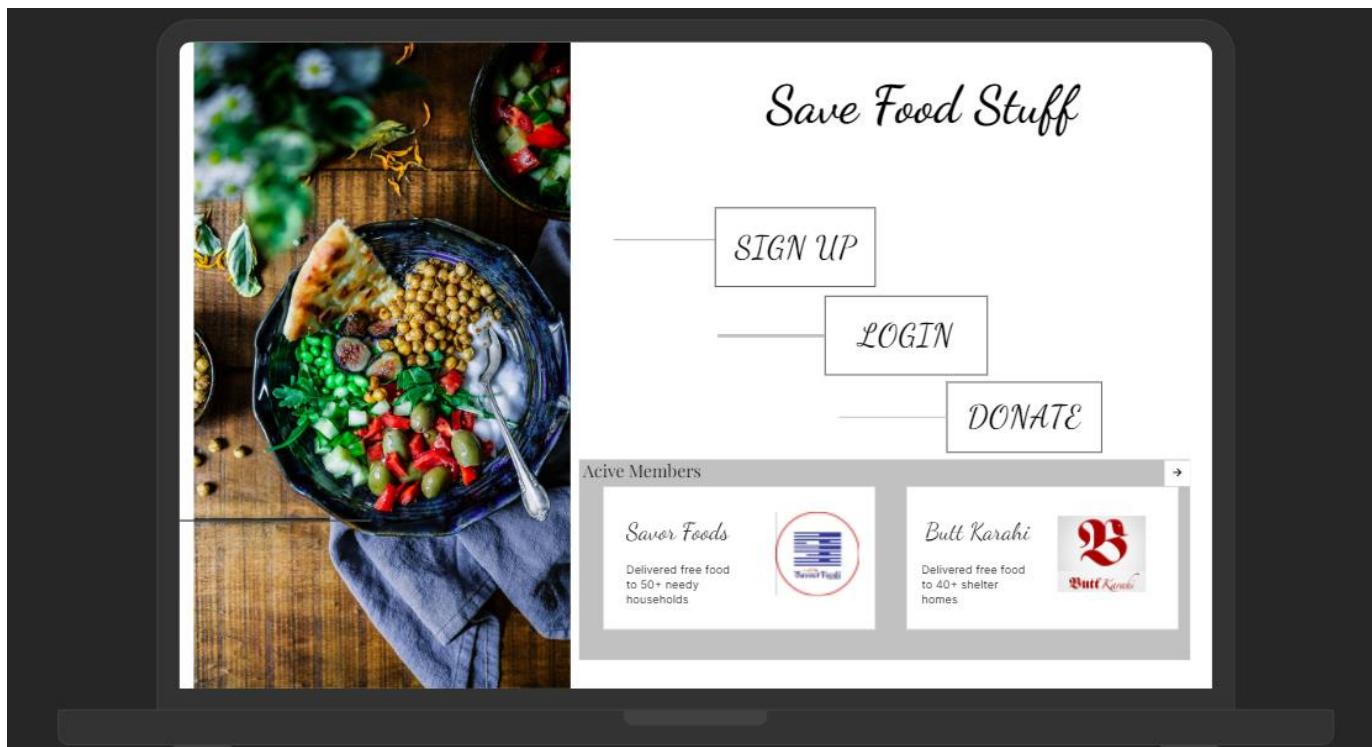
Details about user interface with descriptions.

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Frame 1

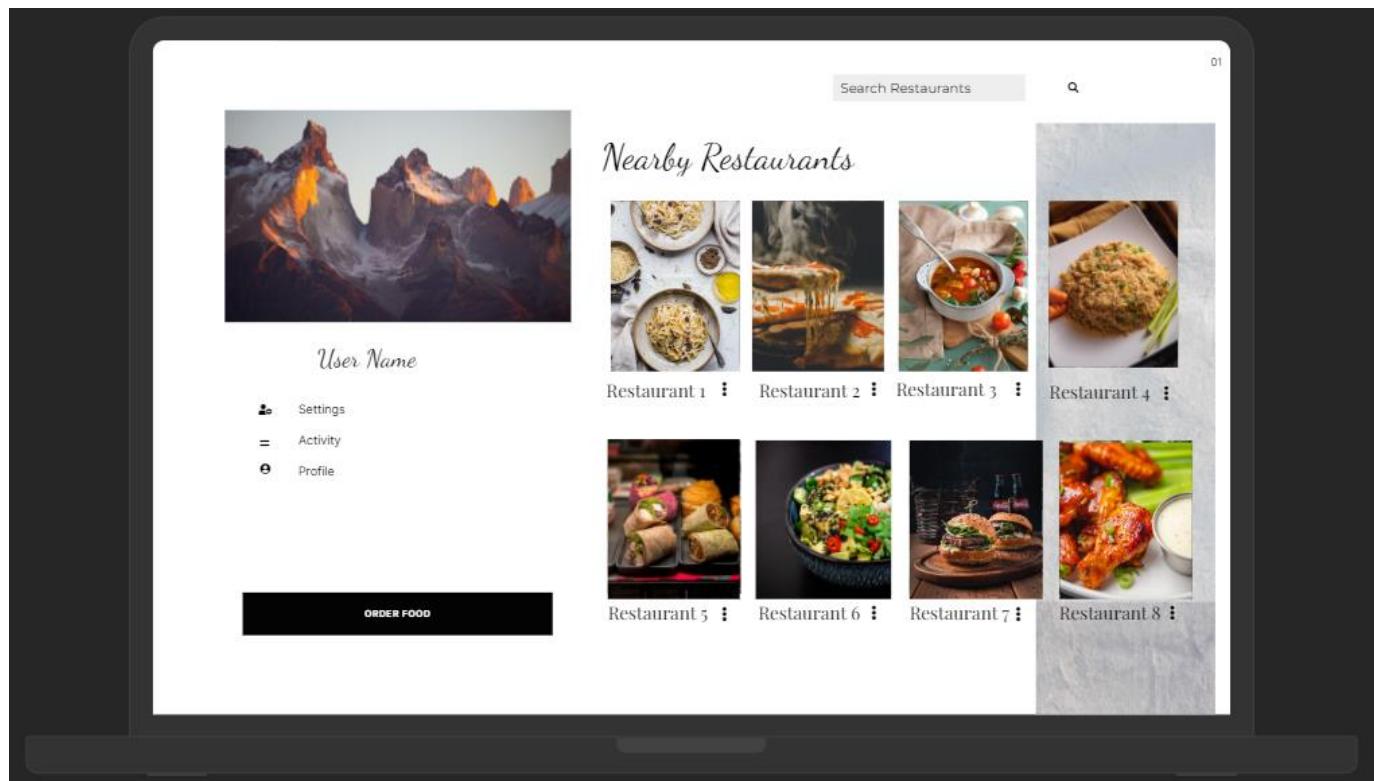


The image shows the homepage of the Save Food Stuff website. At the top left is a logo featuring a hand holding a spoon over a bowl. Below the logo is the text "WELCOME TO SAVE FOOD STUFF". To the right of the logo is a descriptive text block: "Save Food Stuff provides a platform for needy people & shelter homes to order free food when they need. Different restaurants are available that are offering as required with a very fast delivery services." Below this text is a blue button labeled "Visit Now". The main visual below the header is a photograph of a waiter in a restaurant setting, holding two plates of food: a salad and a dish of bread topped with tomato sauce and herbs.



The image shows a mobile application interface for the Save Food Stuff platform. On the left is a vertical sidebar containing a large image of a bowl of salad and a smaller image of a pizza slice. To the right of the sidebar is the main content area. At the top right is the text "Save Food Stuff". Below it are three buttons: "SIGN UP", "LOGIN", and "DONATE". Underneath these buttons is a section titled "Active Members" which lists two organizations: "Savor Foods" and "Bull Karahi". Each organization has a logo, a brief description of their service, and a small arrow pointing to the right.

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6 Testing and Evaluation

6.1.Verification

In verification process, All the functionalities that are defined or are tested in this document are cross checked with those defined in Software requirement document.

6.2.Validation

During tests, all the defects that were detected are evaluated and removed through debugging

6.3.Usability Testing

The developed application will be tested to make sure that it is usable by the targeted audience and whether it runs effectively or not.

6.4.Module / Unit Testing

Each unit/module will be tested to remove all possible errors and make the system effective.

6.5.Integration Testing

All the modules' inter-compatibility will be tested to ensure working of module with other modules without any clashes.

6.6. System Testing

System testing is done after successful completion of integration testing and the overall system including all modules, interface and the summarizing engine are tested collectively.

6.7. Acceptance Testing

The system will be tested while the client's environment is kept in mind. This contains how the client will use the application and what it would do with the system and what type of errors are expected to be generated.

6.8. Manual Testing

The system is tested without the help of software testing automation tools to identify bugs and defects. Test cases will be executed manually while considering end user's perspective.

6.9. Test Cases.

Following are the test cases defined in our project.

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Test Case 1: Verification of attached document

Test Id:	TC-1.1	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of attached document	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	Document	Priority:	Medium
Precondition:		System has a button for sign up	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display ‘Main’ Screen • Click on “Login” button • Click on “Sign up” button • Enter email, first name, last name, CNIC, phone number etc. • Click on document attachment • Click on “Sign up button” 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen success • System displays “Login” webpage • System displays “Create an Account” webpage. • System gets the user information successful • System test the document successfully • System generates User account successfully. 	
Expected Result:		After execution, System should generate a new account for the user.	
Actual Result:		After execution, system has generated User account successfully.	
Status:		Pass	

Test Case 2: Verification of Adding Member

Test Id:	TC-1.2	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of Adding Member	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	New Members	Priority:	High
Precondition:		System has a button for adding members	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display ‘Main’ Screen • Click on “Login” button • Enter username and password etc. • Click on view requests. • Click on accept requests. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System displays “Login” webpage • System gets the user information successful • System displayed the user request to admin. • System successfully accepted the request. 	
Expected Result:		After execution, System should add a new member.	
Actual Result:		After execution, system has added members successfully.	
Status:		Pass	

Test Case 3: Verification of Removing Member

Test Case 4: Verification of Viewing Rating

Test Id:	TC-1.3	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of Removing Member	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	Remove Members	Priority:	High
Precondition:		System has a button for remove members	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on “Login” button • Enter username and password etc. • Click on view requests. • Click on remove requests. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System displays “Login” webpage • System gets the user information successful • System displayed the user request to admin. • System successfully removed the request. 	
Expected Result:		After execution, System should remove members he wanted to.	
Actual Result:		After execution, system has removed members successfully.	
Status:		Pass	

Test Id:	TC-1.4	Test Case Designed by:	Kainat Mudassar
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Test Case Title:	Viewing rating	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	Ratting displayed	Priority:	High
Precondition:		System has a button for view ratings	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on “Login” button • Enter username and password etc. • Click on view ratings button. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System displays “Login” webpage • System gets the user information successful • System successfully displayed the rating of restaurants to admin. 	
Expected Result:		After execution, System should view the ratings.	
Actual Result:		After execution, system has viewed ratings successfully.	
Status:		Pass	

Test Case 5: Verification of Members Details

Test Id:	TC-1.5	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Members Detail	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022

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Test Data:	Edit Member Button	Priority:	Medium
Precondition:		System has a button for edit members details.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on “Login” button • Go to admin account. • Click on edit member details 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System displays “Login” webpage • Admin main screen is displayed. • Member details are edited successfully. 	
Expected Result:		After execution, System should edit the details of the members.	
Actual Result:		After execution, system should have successfully edit the members details.	
Status:		Pass	

Test Case 6: Verification of Showing History

Test Id:	TC-1.6	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Showing History	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	View History Button	Priority:	High
Precondition:		System has a button for showing member's history.	

Steps /Action	System Response
<ul style="list-style-type: none">• Click on Main Webpage• System display “Main” Screen• Go to admin account.• Click on “Login” button• Click on member’s history.	<ul style="list-style-type: none">• System start working.• System display “Main” screen successfully.• Admin main screen is displayed• System displays “Login” webpage• Member history displayed successfully.
Expected Result:	After execution, System should display the members history
Actual Result:	After execution, Members history is shown..
Status:	Pass

Test Case 7: Verification of Login Details

Test Id:	TC-1.7	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of Login Details	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	Login Button	Priority:	Medium
Precondition:		System has a button for login	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display ‘Main’ Screen • Click on “Login” button • Enter username and password. • Click on “OK” Button. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen success • System displays “Login” webpage • System gets the user information successful • System get the login credentials successfully. 	
Expected Result:		After execution, System should easily logged-in.	

Actual Result:	After execution, system has login the account successfully.
Status:	Pass

Test Case 8: Verification of All Members

Test Id:	TC-1.8	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of all members	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	View All Button	Priority:	Low
Precondition:	System has a button for view member details.		
Steps /Action	System Response		
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Go to admin account. • Click on “Login” button • Click on view members. 	<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • Admin main screen is displayed. • System displays “Login” webpage • All members are displayed. 		
Expected Result:	After execution, System should view members.		
Actual Result:	After execution, system should have successfully viewed all member list.		
Status:	Pass		

Test Case 9: Verification of Notification

Test Id:	TC-1.9	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of notification.	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	View All Button	Priority:	Medium
Precondition:		System has a button for view member details.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Go to admin account. • Click on “Login” button • Click on send Notification 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • Admin main screen is displayed. • System displays “Login” webpage • All members are displayed. 	
Expected Result:		After execution, System should send notifications to user.	
Actual Result:		After execution, system have send notification successfully.	
Status:		Pass	

Test Case 10: Verification of Activity of Restaurants

Test Id:	TC-1.10	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification Activity of restaurants.	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	View Active Restaurants Button	Priority:	High
Precondition:		System has a button for active restaurant.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Go to admin account. • Click on “Login” button • Go on recent activity page of the restaurants. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • Admin main screen is displayed. • System displays “Login” webpage • Recent Activities of the restaurants displayed. 	
Expected Result:		After execution, System should displayed the activity restaurant.	
Actual Result:		After execution, system displayed the restaurant’s history successfully.	
Status:		Pass	

Test Case 11: Verification of Active Users

Test Id:	TC-1.11	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of active users.	Test Case Executed by:	Kainat Mudassar
Module Name:	Admin	Test Case Execution Date:	6-7-2022
Test Data:	View active users.	Priority:	High
Precondition:		System has a button for active restaurant.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Go to admin account. • Click on “Login” button • Go to active user’s page 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • Admin main screen is displayed. • System displays “Login” webpage • All active users are shown. 	
Expected Result:		After execution, System should have displayed the users that are currently active.	
Actual Result:		After execution, all active users are displayed.	
Status:		Pass	

Test Case 12: Verification of Sign-up as Restaurant

Test Id:	TC-2.1	Test Case Designed by:	Maha
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Test Case Title:	Verify Sign-up as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	High
Precondition:		Internet availability.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Sign Up button clicked • Required Credentials entered • Sign Up button clicked 		<ul style="list-style-type: none"> • Sign up form opens • Fields are filled successfully • Account logged in 	
Expected Result:		Successful Sign Up.	
Actual Result:		Successful Sign Up.	
Status:		Pass	

Test Case 13: Verification of Sign-in as Restaurant

Test Id:	TC-2.2	Test Case Designed by:	Maha
Test Case Title:	Verify Sign-in as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	High
Precondition:		Successful Sign Up	

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Steps /Action	System Response
<ul style="list-style-type: none"> • Login button clicked • Required Credentials entered • Login button clicked 	<ul style="list-style-type: none"> • Login form opens • Fields are filled successfully • Account logged in
Expected Result:	Successful Login.
Actual Result:	Successful Login.
Status:	Pass

Test Case 14: Verification of View Donations as Restaurant

Test Id:	TC-2.3	Test Case Designed by:	Maha
Test Case Title:	Authenticate View Donations as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	Medium
Precondition:	Successful Sign up and Sign in.		
Steps /Action	System Response		

<ul style="list-style-type: none"> • Donations button clicked 	<ul style="list-style-type: none"> • All the donations are listed
Expected Result:	Successful view of donations.
Actual Result:	Successful view of donations.
Status:	Pass

Test Case 15: Verification of Post Food as Restaurant

Test Id:	TC-2.4	Test Case Designed by:	Maha
Test Case Title:	Authenticate Post Food as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	High
Precondition:		Successful Sign up and Sign in.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Post Food Page opened • Amount of food entered • Criteria is selected • Dish name entered • Price entered 		<ul style="list-style-type: none"> • Post Food Page opened. • Amount of food saved • Criteria saved • Dish name saved • Price saved 	

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Expected Result:	Post food successful.				
Actual Result:	Post food successful.				
Status:	Pass				
Test Id:	TC-2.5	Test Case Designed by:	Maha		
Test Case Title:	Authenticate View of Accepted Orders Restaurant	Test Case Executed by:	Maha		
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022		
Test Data:	Text and Images of icons	Priority:	Medium		
Precondition:	Successful Sign up and Sign in.				
Steps /Action	System Response				
	<ul style="list-style-type: none"> • View orders button clicked 	<ul style="list-style-type: none"> • Accepted orders displayed. 			
Expected Result:	View successful.				
Actual Result:	View successful.				
Status:	Pass				

Test Case 16: Verification of View accepted Orders as Restaurant

Test Case 17: Verification of View Requests as Restaurant

Test Id:	TC-2.6	Test Case Designed by:	Maha
Test Case Title:	Authenticate View Requests as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	High
Precondition:		Successful Sign up and Sign in.	
Steps /Action		System Response	
<ul style="list-style-type: none">• View requests button clicked• Accept/Decline button clicked		<ul style="list-style-type: none">• Requests page opened• Request accepted/declined.	
Expected Result:		Request accepted/declined successfully.	

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Actual Result:	Request accepted/declined successfully.
Status:	Pass

Test Case 18: Verification of Food Delivery as Restaurant

Test Id:	TC-2.7	Test Case Designed by:	Maha
Test Case Title:	Confirm Delivery of food as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	Medium
Precondition:		Successful Sign up and Sign in.	
Steps /Action		System Response	

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<ul style="list-style-type: none"> • Required data filled • Send to Deliver button clicked 	<ul style="list-style-type: none"> • Data is saved. • Order details sent to delivery data
Expected Result:	View successful.
Actual Result:	View successful.
Status:	Pass

Test Case 19: Verification of View Delivered Orders as Restaurant

Test Id:	TC-2.8	Test Case Designed by:	Maha
Test Case Title:	Authenticate View of Delivered Orders as Restaurant	Test Case Executed by:	Maha
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022

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Test Data:	Text and Images of icons	Priority:	Medium
Precondition:	Successful Sign up and Sign in.		
Steps /Action	System Response		
<ul style="list-style-type: none"> View Delivered orders button clicked 	<ul style="list-style-type: none"> Delivered orders displayed. 		
Expected Result:	View successful.		
Actual Result:	View successful.		
Status:	Pass		

Test Case 20: Verification of View Orders to be delivered as Restaurant

Test Id:	TC-2.9	Test Case Designed by:	Maha
Test Case Title:	Authenticate View of Orders to be	Test Case Executed by:	Maha

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	delivered as Restaurant		
Module Name:	Restaurant	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	Medium
Precondition:		Successful Sign up and Sign in.	
Steps /Action		System Response	
<ul style="list-style-type: none"> View orders to be Delivered button clicked 		<ul style="list-style-type: none"> List of Orders to be delivered displayed. 	
Expected Result:		View successful.	
Actual Result:		View successful.	
Status:		Pass	

Test Case 21: Verification of Collection of Food from Donor Member

Test Id:	TC-3.1	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Collecting food form donors.	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	View collected food	Priority:	Low
Precondition:		System has a button for active restaurant.	
Steps /Action		System Response	
<ul style="list-style-type: none"> Click on Main Webpage System display “Main” Screen Delivery clicks on receiving food button. 		<ul style="list-style-type: none"> System start working. System display “Main” screen successfully. System displayed the requests for food to delivery boy. 	
Expected Result:		After execution, System should have displayed all receiving food.	
Actual Result:		After execution, food records are displayed.	
Status:		Pass	

Test Case 22: Verification of Delivery of Food

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Test Id:	TC-3.2	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Delivery of food to receive.	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	View food to be delivered.	Priority:	Medium
Precondition:		System has a button for accepting delivery of food.	
Steps /Action		System Response	
<ul style="list-style-type: none"> Click on Main Webpage System display “Main” Screen Click on accept delivery button. 		<ul style="list-style-type: none"> System start working. System display “Main” screen successfully. System will accept the delivery for food. 	
Expected Result:		After execution, System should have displayed all receiving food.	
Actual Result:		After execution, food to be delivered records are displayed.	
Status:		Pass	

Test Case 23: Verification of Getting Location

Test Id:	TC-3.3	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Getting Location	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	Location Button	Priority:	High
Precondition:		System has a button for active restaurant.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on location button. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System will display all the nearby locations. 	
Expected Result:		After execution, System should have displayed available delivery boys nearby location.	
Actual Result:		After execution the locations are displayed	
Status:		Pass	

Test Case 24: Verification of Charges

Test Id:	TC-3.4	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of charges	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	Location Button	Priority:	High
Precondition:		System has a button for paying charges.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on deliver charges button. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System will display all charges options like free 15% or 20% to user. 	
Expected Result:		After execution, System should have displayed all charges options.	
Actual Result:		After execution the charges are payed according to user will	
Status:		Pass	

Test Case 25: Verification of Delivery Boy Availability

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Test Id:	TC-3.5	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Checking of delivery boy is available or not. <small>Assignment #6 SOFTWARE ENGINEERING CONCEPTS (CSC-291)</small>	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	Delivery boy availability button	Priority:	Medium
Precondition:		System has a button for checking availability of delivery boy.	
Steps /Action		System Response	
<ul style="list-style-type: none"> Click on Main Webpage System display “Main” Screen Click on delivery button. Click here to check the availability of delivery boy. 		<ul style="list-style-type: none"> System start working. System display “Main” screen successfully. System will display all delivery options. System will display no delivery boy if there is no any boy is available for delivery of food. 	
Expected Result:		After execution, System should displayed all available delivery boys.	
Actual Result:		After execution all delivery boys are displayed.	
Status:		Pass	

Test Case 26: Verification of Work Limit

Test Id:	TC-3.6	Test Case Designed by:	Kainat Mudassar
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Test Case Title:	Verification of Work limit	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	Delivery Time	Priority:	High
Precondition:		System has a button for counting working hours per delivery boy.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on delivery hour button. • Click here to count the extra working hours. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System will display all working hours of every person. • System will display all working hours. 	
Expected Result:		After execution, System should have displayed all working hours of delivery boy.	
Actual Result:		After execution the time of every delivery boy is calculated.	
Status:		Pass	

Test Case 27: Verification of Delivery Time Estimate

Test Id:	TC-3.7	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of Estimating delivery time	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery boy	Test Case Execution Date:	6-7-2022
Test Data:	Delivery Time	Priority:	High
Precondition:		System has a button for counting working hours per delivery boy.	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display “Main” Screen • Click on delivery time button. • Click here to accept delivery. 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen successfully. • System will display time for delivery. • System will accept all deliveries. 	
Expected Result:		After execution, System should display the time they take to deliver order	
Actual Result:		After execution the time of every delivery is shown.	
Status:		Pass	

Test Case 28: Verification of Login Details

Test Id:	TC-3.8	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of Login Details	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	Login Button	Priority:	Medium
Precondition:	System has a button for login		
Steps /Action	System Response		
<ul style="list-style-type: none"> • Click on Main Webpage • System display ‘Main’ Screen • Click on “Login” button • Enter username and password. • Click on “OK” Button. 	<ul style="list-style-type: none"> • System start working. • System display “Main” screen success • System displays “Login” webpage • System gets the user information successful • System get the login credentials successfully. 		
Expected Result:	After execution, System should easily logged-in.		
Actual Result:	After execution, system has login the account successfully.		
Status:	Pass		

Test Case 29: Verification of User Details

Test Id:	TC-3.9	Test Case Designed by:	Kainat Mudassar
Test Case Title:	Verification of details by user	Test Case Executed by:	Kainat Mudassar
Module Name:	Delivery Boy	Test Case Execution Date:	6-7-2022
Test Data:	Document	Priority:	Medium
Precondition:		System has a button for sign up	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Click on Main Webpage • System display ‘Main’ Screen • Click on “Login” button • Click on “Sign up” button • Enter email, first name, last name, CNIC, phone number etc. • Click on document attachment • Click on “Sign up button” 		<ul style="list-style-type: none"> • System start working. • System display “Main” screen success • System displays “Login” webpage • System displays “Create an Account” webpage. • System gets the user information successful • System test the document successfully • System generates User account successfully. 	
Expected Result:		After execution, System should generate a new account for the user.	
Actual Result:		After execution, system has generated User account successfully.	
Status:		Pass	

Test Case 30: Verification of Recipient selection as Donor

Test Id:	TC-4.1	Test Case Designed by:	Maha
Test Case Title:	Verify Selection of recipient as Donor	Test Case Executed by:	Maha
Module Name:	Donation	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	High
Precondition:		Stable Internet connection	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Donation button is clicked • Donor clicks on donation to restaurant/donation to shelter homes • Recipient is selected 		<ul style="list-style-type: none"> • Donation page opens. • Donation to restaurant/donation to shelter homes • Recipient data is stored 	
Expected Result:		Recipient selected successfully.	
Actual Result:		Recipient selected successfully.	
Status:		Pass	

Test Case 31: Verification of Donation of money as Donor

Test Id:	TC-4.2	Test Case Designed by:	Maha
Test Case Title:	Verify donation of money as Donor	Test Case Executed by:	Maha

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Module Name:	Donation	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	High
Precondition:		Recipient is selected	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Donation to restaurant button is clicked • All the credentials are filled • Donate button is clicked 		<ul style="list-style-type: none"> • Donation to restaurant page opens. • Data filled is saved • Amount is donated 	
Expected Result:		Amount successfully donated.	
Actual Result:		Amount successfully donated.	
Status:		Pass	

Test Case 32: Verification of Donation of food as Donor

Test Id:	TC-4.3	Test Case Designed by:	Maha
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Assignment#6
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Test Case Title:	Verify donation of food as Donor	Test Case Executed by:	Maha
Module Name:	Donation	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images of icons	Priority:	High
Precondition:		Recipient is selected	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Donation to shelter homes button is clicked • All the credentials are filled • Donate button is clicked 		<ul style="list-style-type: none"> • Donation to shelter homes page opens. • Data filled is saved • Food is donated 	
Expected Result:		Food successfully donated.	
Actual Result:		Food successfully donated.	
Status:		Pass	

Test Case 33: Verification of Sign-up as User

Assignment#6
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Test Id:	TC-5.1	Test Case Designed by:	Maha
Test Case Title:	Verify Sign-up as User	Test Case Executed by:	Maha
Module Name:	User Profile	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	High
Precondition:	Internet availability.		
Steps /Action	System Response		
<ul style="list-style-type: none"> • Sign Up button clicked • Required Credentials entered • Sign Up button clicked 	<ul style="list-style-type: none"> • Sign up form opens • Fields are filled successfully • Account logged in 		
Expected Result:	Successful Sign Up.		
Actual Result:	Successful Sign Up.		
Status:	Pass		

Test Case 34: Verification of Sign-in as User

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

Test Id:	TC-5.2	Test Case Designed by:	Maha
Test Case Title:	Verify Sign-in as User	Test Case Executed by:	Maha
Module Name:	User Profile	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	High
Precondition:		Successful Sign Up	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Login button clicked • Required Credentials entered • Login button clicked 		<ul style="list-style-type: none"> • Login form opens • Fields are filled successfully • Account logged in 	
Expected Result:		Successful Login.	
Actual Result:		Successful Login.	
Status:		Pass	

Test Case 35: Verification of Find food as User

Assignment#6
SOFTWARE ENGINEERING CONCEPTS (CSC-291)

Test Id:	TC-5.3	Test Case Designed by:	Maha		
Test Case Title:	Verify Find Food as User	Test Case Executed by:	Maha		
Module Name:	Find Food	Test Case Execution Date:	07-6-2022		
Test Data:	Text and Images	Priority:	High		
Precondition:	Internet availability.				
Steps /Action	System Response				
	<ul style="list-style-type: none"> • Restaurant name is clicked/searched • Required Credentials entered • Order Food button clicked 	<ul style="list-style-type: none"> • Restaurant is selected • Fields are filled successfully • Order confirmation page opened 			
Expected Result:	Successful order.				
Actual Result:	Successful order.				
Status:	Pass				

Test Case 36: Verification of Reviews as User

Test Id:	TC-5.4	Test Case Designed by:	Maha
Test Case Title:	Verify Reviews as User	Test Case Executed by:	Maha
Module Name:	Find Food	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	High
Precondition:	Successful Sign Up		

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Steps /Action	System Response
<ul style="list-style-type: none"> • Reviews button clicked • Required Credentials entered • Submit reviews button clicked 	<ul style="list-style-type: none"> • Reviews form opens • Fields are filled successfully • Reviews are stored
Expected Result:	Reviews given successfully.
Actual Result:	Reviews given successfully.
Status:	Pass

Test Case 37: Verification of Settings as User

Test Id:	TC-5.5	Test Case Designed by:	Maha
Test Case Title:	Verify Settings as User	Test Case Executed by:	Maha
Module Name:	Find Food	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	Low
Precondition:		Successful Sign Up	
Steps /Action		System Response	

<ul style="list-style-type: none"> • Settings button clicked 	<ul style="list-style-type: none"> • Settings page opens
Expected Result:	Settings viewed successfully.
Actual Result:	Settings viewed successfully.
Status:	Pass

Test Case 38: Verification of Logout as User

Test Id:	TC-5.6	Test Case Designed by:	Maha
Test Case Title:	Verify Logout as User	Test Case Executed by:	Maha
Module Name:	Find Food	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	Low
Precondition:		Successful Sign Up	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Settings button clicked • Logout button clicked 		<ul style="list-style-type: none"> • Settings page opens • User profile logs out 	
Expected Result:		User profile logged out successfully.	

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Actual Result:	User profile logged out successfully.
Status:	Pass

Test Case 39: Verification of View History as User

Test Id:	TC-5.7	Test Case Designed by:	Maha
Test Case Title:	Verify View of history as User	Test Case Executed by:	Maha
Module Name:	Find Food	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	Medium
Precondition:		Successful Sign Up	
Steps /Action		System Response	
<ul style="list-style-type: none"> • Activity button clicked 		<ul style="list-style-type: none"> • All previous orders of user are listed 	
Expected Result:		Activity viewed successfully.	
Actual Result:		Activity viewed successfully.	
Status:		Pass	

Test Case 40: Verification of View How to use page as User

Test Id:	TC-5.8	Test Case Designed by:	Maha
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Test Case Title:	Verify View of how to use page as User	Test Case Executed by:	Maha
Module Name:	Find Food	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	Medium
Precondition:		Successful Sign Up	
Steps /Action		System Response	
<ul style="list-style-type: none"> Settings button clicked “How to use” button clicked 		<ul style="list-style-type: none"> Settings page opened How to use page opened 	
Expected Result:		“How to use” page viewed successfully.	
Actual Result:		“How to use” page viewed successfully.	
Status:		Pass	

Test Case 41: Verification of View Profile as User

Test Id:	TC-5.9	Test Case Designed by:	Maha
Test Case Title:	Verify View of profile as User	Test Case Executed by:	Maha
Module Name:	Find Food	Test Case Execution Date:	07-6-2022
Test Data:	Text and Images	Priority:	Medium
Precondition:		Successful Sign Up	
Steps /Action		System Response	

• profile button clicked	• Profile details are listed
Expected Result:	Profile viewed successfully.
Actual Result:	Profile viewed successfully.
Status:	Pass

6.10. Environmental Needs

- MS word used for project Documentation.
- MS PowerPoint used for project presentation as well.
- Visio used for design.
- Visual Studio used for front end implementation.
- Figma used for designing front end of our application.
- No hardware will be used.

7 Conclusion and Future Work

This chapter concludes the project and highlights future work.

7.1 Conclusion

To conclude, our app is specifically designed to minimize food wastage and feeding the hunger. It solves the issue of distribution of food that usually goes into waste. We try to make sure that this food is only delivered to those who actually need it.

The app is designed in two ways, the user who is donating the food and the person/organization that is claiming the food.

7.2 Future Work

The main goal after this project to cut back on its limitations by gathering more data on different conditions and provide more and more information in an efficient way. We would be interested in expanding the application and providing more functionalities to the user.

7.3 Lesson Learnt.

FA20-BCS-029:

I learnt how to design a system and all the steps involved. Moreover, the concept of all the components of a system and how to integrate these components was also grasped. In addition, how to use process models, how to test the system, how to implement software engineering concepts and their importance in software development was also learnt.

- FA20-BCS-027:**

During the whole semester I have learnt a lot about the each steps involved in SDLC. I learnt all the documentation need during the development process of new system. It also includes the implementations of modules using different languages. In short this course teaches me how to integrate a large project along its testing phases which is also very beneficial for my final year project as well .

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8 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>

9 Appendix I

- How to design using UML (OOP): For guidance please follow the instructions mentioned in the link:
<http://agilemodeling.com/artifacts/>
- How and when to design ER diagrams: For guidance please follow the instructions mentioned in the link:
http://people.inf.elte.hu/nikovits/DB2/Ullman_The_Complete_Book.pdf
- Data flow diagrams: For guidance please follow the instructions mentioned in the link and book:
 - <http://www.agilemodeling.com/artifacts/dataFlowDiagram.htm>
 - Software Engineering –A Practitioner’s approach by Roger Pressman
- Architecture diagram: For guidance please follow the instructions mentioned in the link and book:
 - Ian Sommerville – Software Engineering 9th Edition– Chapter 6

10 Plaragism Report

Attach the Plaragism report of your project requirement document from library staff of turnitin tool (<http://turnitin.com>)