

# **Software Requirements Specification**

**for**

## **Help@Cyberjaya Web Application**

**version 1.1**

**Group No. 13**

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**Date: 17/06/2021**

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# Software Requirements Specification for Help@Cyberjaya Web Application

## Revision

Version	Primary Author(s)	Description	Date Completed
1.1	CHENG JIA PAO TAM JIAN XIN TEOH YEE CHIEN FAM YAO DENG		16/9/2021

## Chapter 1: Project Introduction

### 1.1 Team Members

The team members in this project are stated as below:

**Table 1.1: Team Member Lists**

Team member	Position	Actor
Cheng Jia Pao	Team Leader	User
Teoh Yee Chien	Programming Leader	Admin
Fam Yao Deng	Document Manager	User
Tam Jian Xin	Quality Manager	Admin

### 1.2 Problem Statement

This project is initiated to solve the problem in which there was no food bank application in the market prior to the lockdown period in Malaysia. Due to the pandemic of Covid-19, Malaysia has been imposing nationwide lockdown since the mid-year of 2020. Many people have lost their job and undergone financial crises. Many families struggle to have one meal a day, which brings them to raise white flag outside their house to plea for help. In response, many food banks surge to help to provide food. However, the disorganization of the food banks limits the number of beneficiaries.

In addition, this is to collect and consolidate the locations of food banks in Cyberjaya into one platform. Since many of the food banks are organized by the kind-hearted individuals who do not belong to any Non-Governmental Organization (NGO), the information on the food bank organized by them, such as the date and location will be hardly reachable unless being verbally informed or spread through social media like Facebook. It is not surprising if most people do not know the existence of certain food banks.

Issues such as a sudden change in the location of the food banks are also the main concerns in terms of transmission of the announcement. For instance, if the food bank is canceled on the planned location, people who do not receive this information will go to queue up at the location as usual. This will unnecessarily expose them to the risk of contracting Covid-19.

In order to solve these problems, the project "Help@Cyberjaya" is developed.

### 1.3 Objective

The objectives of this project include:

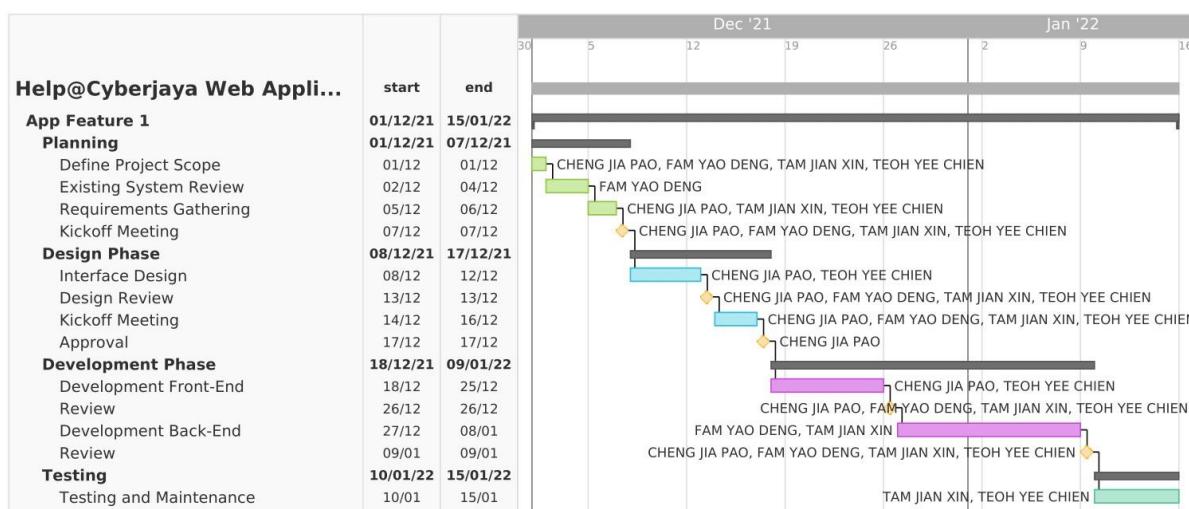
- To allow the user to register for a user account
- To allow the user to get the latest information about the food bank through the website, such as the location of the food banks and the food catalog
- To allow the admin to add, update and delete the food available in the food bank
- To allow the admin to add, update and delete the location of the food bank
- To allow the admin to establish a report on the food catalog and the location of the food bank

### 1.4 Project Plan

The project is Food Bank Distribution App which is a web application developed by using Microsoft Word 2019, Google Docs, Visual Studio 2019, and XAMPP.

The Waterfall model which is a software process model is used to plan the milestones and deadlines of the project. This process model is a linear sequential life cycle. It is easy to manage and it allows easy and clear documentation. Stages are defined clearly and milestones can be well understood. The phases in this process model include requirement analysis, system design, implementation, and testing. One phase has to be completed in order to move forward to the next phase, and there is no overlapping. The users in this system are the admin and end-user. Both users have respective roles in the system.

The milestones and deadlines in this project are shown in the following Gantt chart.



**Figure 1.1: Gantt Chart**

## Chapter 2: System Overview

This section discusses the description of the project which summarizes the major function of the system, the actors involved in the project and their respective use cases, and the assumptions and dependencies that affect the requirements of the project.

### 2.1 Description

This project is to develop a dynamic website of food banks in Malaysia for the targeted user.

The system allows the user to register an account. Upon successful registration, the user needs to log in to gain access to the system. After login successfully, the user can select several functions. The user can select the view profile function to view the personal details on the profile page. One can select the edit profile function to update personal details. The user can also select the view food catalog function to check the available food in the food banks. The view location function can be selected to view the food bank address.

Moreover, the system also allows the admin to log in by entering the username and password. The system provides some functions to allow the admin to add, delete and update food details in the food catalog. The admin can also add, delete and update the location of the food banks. The admin can select the establish report function to view the report on the food catalog and the location of the food bank.

### 2.2 Actors

This section shows the actors and their respective use cases. There are two actors in the system and their use cases are listed in the following table:

**Table 2.1: Actors and Use Cases**

Actor	Use Case
Admin	Log in
	Add food
	Update food details

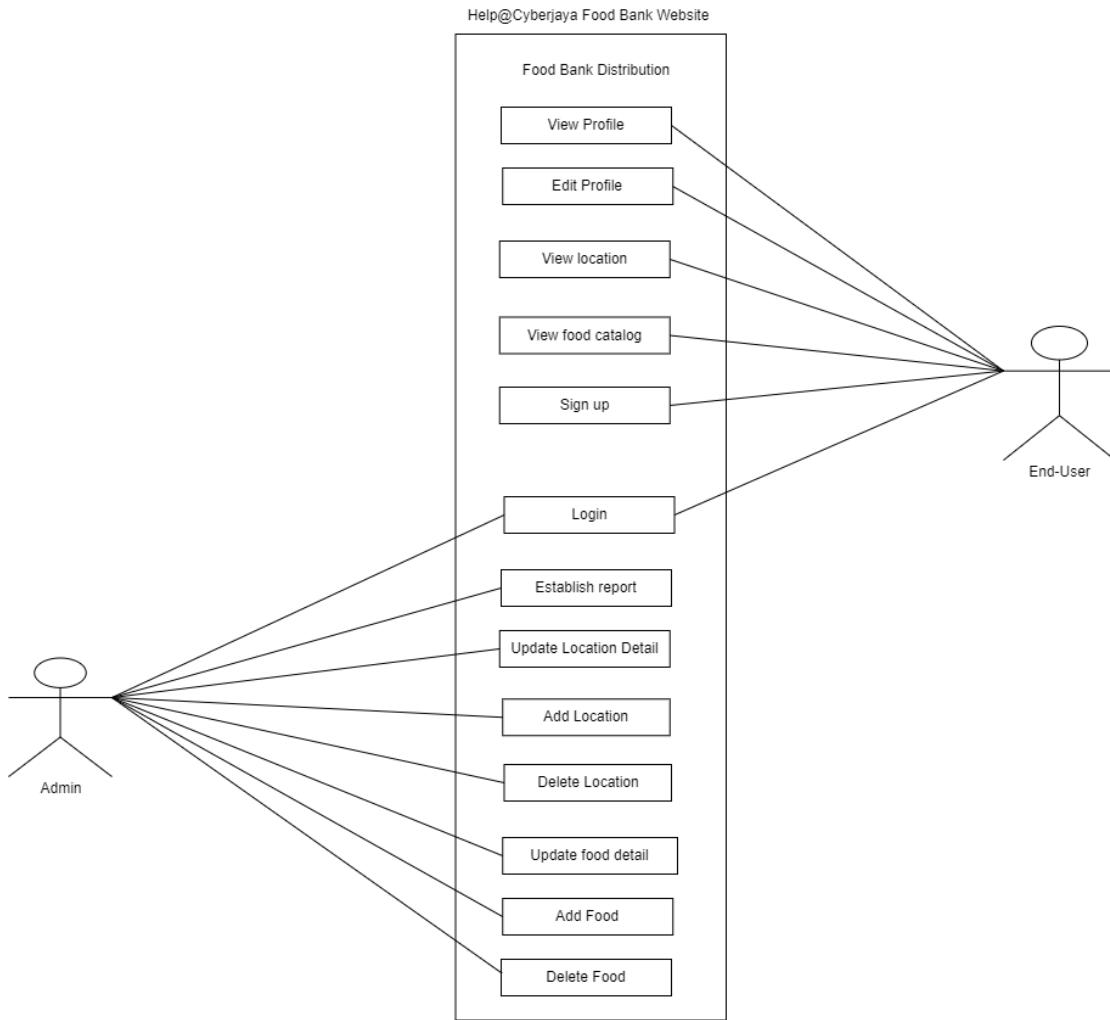
	Delete food
	Add location
	Update location details
	Delete location
	Establish report
End-user	Sign up
	Log in
	View profile
	Edit profile
	View food catalog
	View location

### ***2.3 Assumptions and Dependencies***

There are some major assumptions in the development of this system. It is assumed that spamming by either humans or bots might occur if there is no user authentication taking place. Some form of user authentication is a must. Application deployment on Apple App Store and Google Play Store can be complicated, costly, and time-consuming; as such, the web app is chosen due to its straightforward approach of deployment.

## 2.4 Use Case Diagram

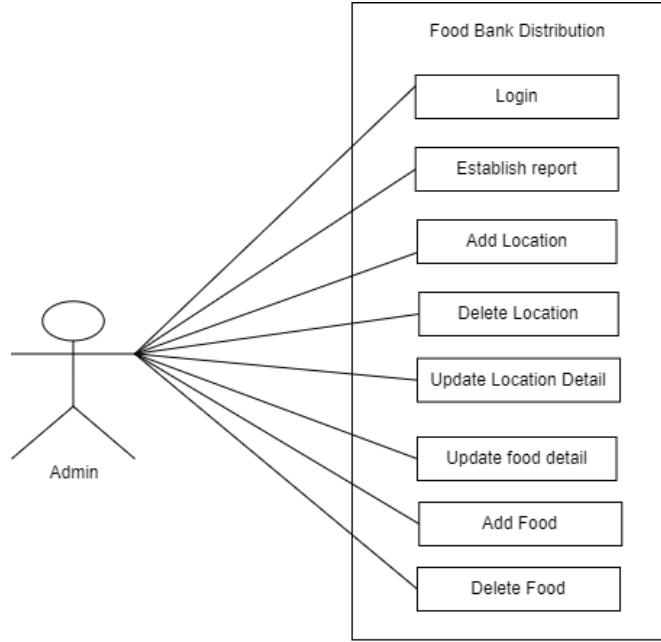
This section discusses the use case diagram. There are two actors in this system, which are the admin and the end-user. Each actor has respective use cases which are shown in the following diagram:



**Figure 2.1: Use Case Diagram**

### 2.4.1 Admin Use Case Diagram

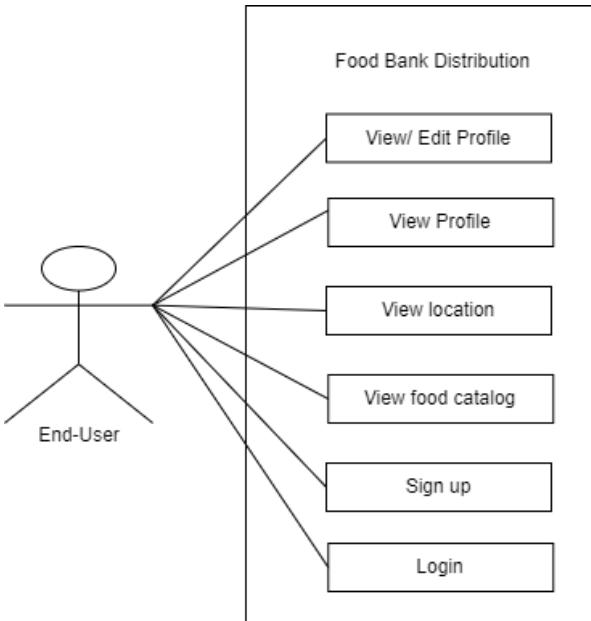
This section includes the use case diagram of the admin. The admin can log in to the system to gain access such as add, update, and delete food in the food catalog. The location of food banks can be added, updated and deleted by the admin. The admin can also establish a report on the food catalog and location of the food bank. The admin use case diagram is shown below:



**Figure 2.2: Admin Use Case Diagram**

#### **2.4.2 End-user Use Case Diagram**

This section discusses the use cases of the end-user. The end-user can register an account and log in to gain access to several functions. The end-user can view and edit the profile. They can also view the food catalog and the location of the food banks.



**Figure 2.3: End-user Use Case Diagram**

## Chapter 3: Basic Requirement

This section describes the use case of each actor in detail.

### 3.1 Admin

#### 3.1.1 Log in

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin can select several functions which include add, update or delete food in the food catalog and the location of the food banks, and establish report on the food catalog and location of the food bank.

#### 3.1.2 Add food

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the view food catalog function to view the food available in the food banks. The system will retrieve data from the database and display the data in the Food Catalog page. The admin selects the add food function to add a new food. To save, the admin clicks on the save button. A confirmation dialog box is displayed, prompting the admin to confirm; the admin can either select yes or no. If no, the system goes back to the add food state. If yes, the system will check the entered details which cannot be empty values. Then, the data is added to the database.

#### 3.1.3 Update food details

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the view food catalog function to view the food available in the food banks. The system will retrieve data from the database and display the data in the food catalog page. The admin selects the edit food function to update a food's details. To save, the admin clicks on the save button. A confirmation dialog box is displayed, prompting the admin to confirm the update; the admin can either select yes or no. If no, the system goes back to the edit food state. If yes, the system will check the entered details which cannot be empty values. Then, the data is updated in the database.

### ***3.1.4 Delete food***

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the view food catalog function to view the food available in the food banks. The system will retrieve data from the database and display the data in the food catalog page. The admin can press the delete button that is available in every food to remove it. A confirmation dialog box is displayed, prompting the admin to confirm. If no is selected, the system goes back to the edit food screen; if yes, the system will update the database.

### ***3.1.5 Add location***

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the view location function to view the locations of food banks. The system will retrieve data from the database and display the data in the location page. The admin selects the add location function to add a new location. To save, the admin clicks on the save button. A confirmation dialog box is displayed, prompting the admin to confirm the update.; the admin can either select yes or no. If no, the system goes back to the add location state. If yes, the system will check the entered details which cannot be empty values and wrong input format. Then, the data is added to the database.

### ***3.1.6 Update location details***

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the view location function to view the locations of food banks. The system will retrieve data from the database and display the data in the location page. The admin selects the edit location function to update a location's details. To save, the admin clicks on the save button. A confirmation dialog box is displayed, prompting the admin to confirm the update; the admin can either select yes or no. If no, the system goes back to the edit location state. If yes, the system will check the entered details which cannot be empty values and wrong input format. Then, the data is updated in the database.

### ***3.1.7 Delete location***

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the view location function to view the location details. The system will

retrieve data from the database and display the data in the Location page. The admin can press the delete button that is available in every location to remove it. A confirmation dialog box is displayed, prompting the admin to confirm. If no is selected, the system goes back to the edit location screen; if yes, the system will update the database.

### ***3.1.8 Establish report***

The admin will enter username and password into the system. The system will retrieve data from the database and compare the username and password. If the username matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The admin selects the establish report function to view the report on the food catalog and location of the food bank. The system will retrieve data from the database and display the data.

## ***3.2 End-user***

### ***3.2.1 Sign up***

The end-user enters email, password, name, phone number, and address into the system. The end-user selects the register button and the system will prompt a confirm message, at which the end-user can either select yes or no. If no, the system goes back to the register state. If yes, the system will check the entered details which cannot be empty values and wrong input format. If the data is entered correctly, the system will check if the email entered by the end-user exist in the database. If the email exists in the database, the system will go back to the register state. If the email does not exist in the database, the data entered by the end-user will be saved to the database. The system will redirect to the login page.

### ***3.2.2 Log in***

The end-user will enter email and password into the system. The system will retrieve data from the database and compare the email and password. If the email matches the password, then the system shows the home page; otherwise, the system goes back to the login page. Then, the end-user can select several functions which include view or edit the profile, view food catalog, view location, and request food.

### ***3.2.3 View profile***

The end-user will enter email and password into the system. The system will retrieve data from the database and compare the email and password. If the email matches the password, then the system shows the home page; otherwise, the system goes back to the login page. The end-user selects the view profile detail function to view their personal detail. The system will retrieve data from the database and display the profile data.

### ***3.2.4 Edit profile***

The end-user enters email and password into the system. The system will retrieve data from the database and compare the email and password. If the email matches the password, then the system shows the home page; if incorrect, the system goes back to the login page. The end-user selects the view profile detail function to view their personal detail. The system will retrieve data from the database and display the profile data. Then, the end-user selects the edit profile function to edit their personal data. The end-user enters new personal details and selects the save button to update the profile. A confirmation dialog box is displayed, prompting the end-user to confirm the data entered. If yes, the system will check the entered details which cannot be empty values and wrong input format; if no, then the system will go back to the edit profile state. After checking and finding no input error, the system will save the record in the database. The system will retrieve data from the database and display the updated profile data.

### ***3.2.5 View food catalog***

The end-user enters email and password into the system. The system will retrieve data from the database and compare the email and password. If the email matches the password, then the system shows the home page; if incorrect, the system goes back to the login page. The end-user selects the view food catalog function to view the food available on the food catalog. The system will retrieve data from the database and display the food data.

### ***3.2.6 View location***

The end-user enters email and password into the system. The system will retrieve data from the database and compare the email and password. If correct, then the system shows the home page; If incorrect, the system goes back to the login page. The end-user selects the view location function to view the location of the food banks. The system will retrieve data from the database and display the location data. The end-user can select the desired location to view the food available in the location. The system will retrieve data from the database to show the food data in the selected location.

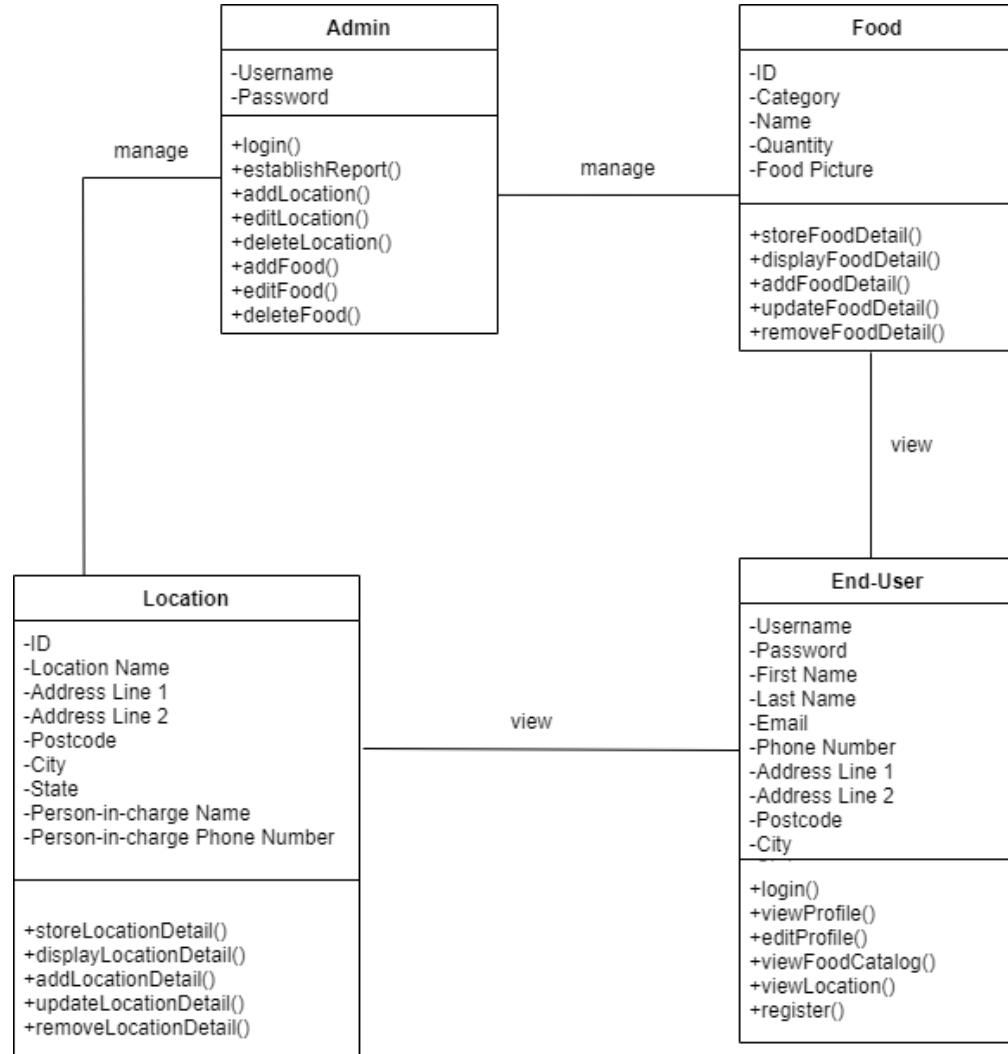
## **Chapter 4: Specific Requirements**

This section discusses the features and functionalities of the system.

### ***4.1 Class Diagram***

This section discusses the class diagram. There are four classes in the system, which include Admin, End-user, Food, and Location. Admin class is used to add, delete, and edit location, and also add, delete, and edit food, and establish report of location and food. End-user class is used to view food catalog, view location, view profile, and edit profile. Food class is used to store food detail, display food detail, add food detail, update food detail, and remove

food detail. Location class used to store location detail, display location detail, add location detail, update location detail, and remove location detail.



**Figure 4.1: Class Diagram**

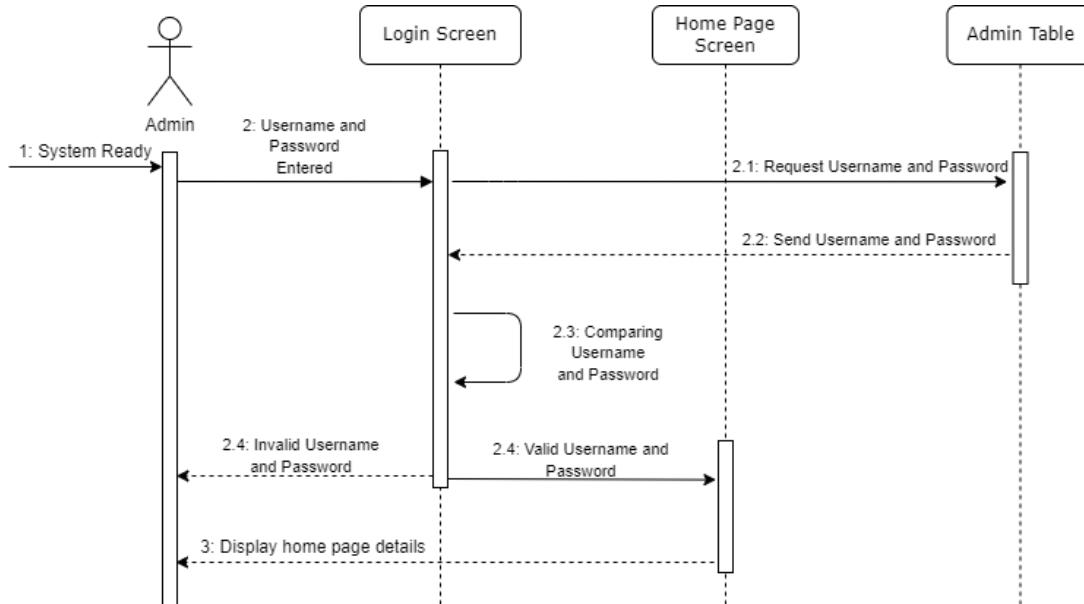
## 4.2 Sequence Diagram

This section includes the sequence diagrams of the scenario of admin and end-user while using the system.

### 4.2.1 Log in (Admin)

1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.

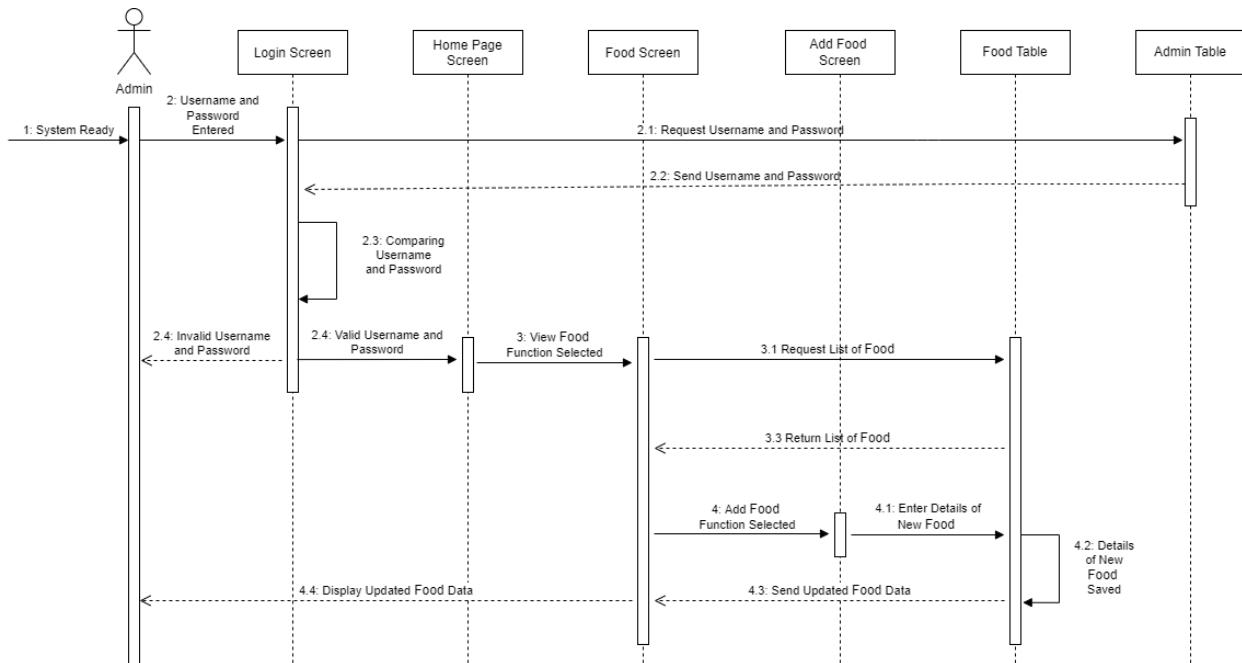
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.



**Figure 4.2: Sequence diagram of Admin Log In**

#### 4.2.2 Add food

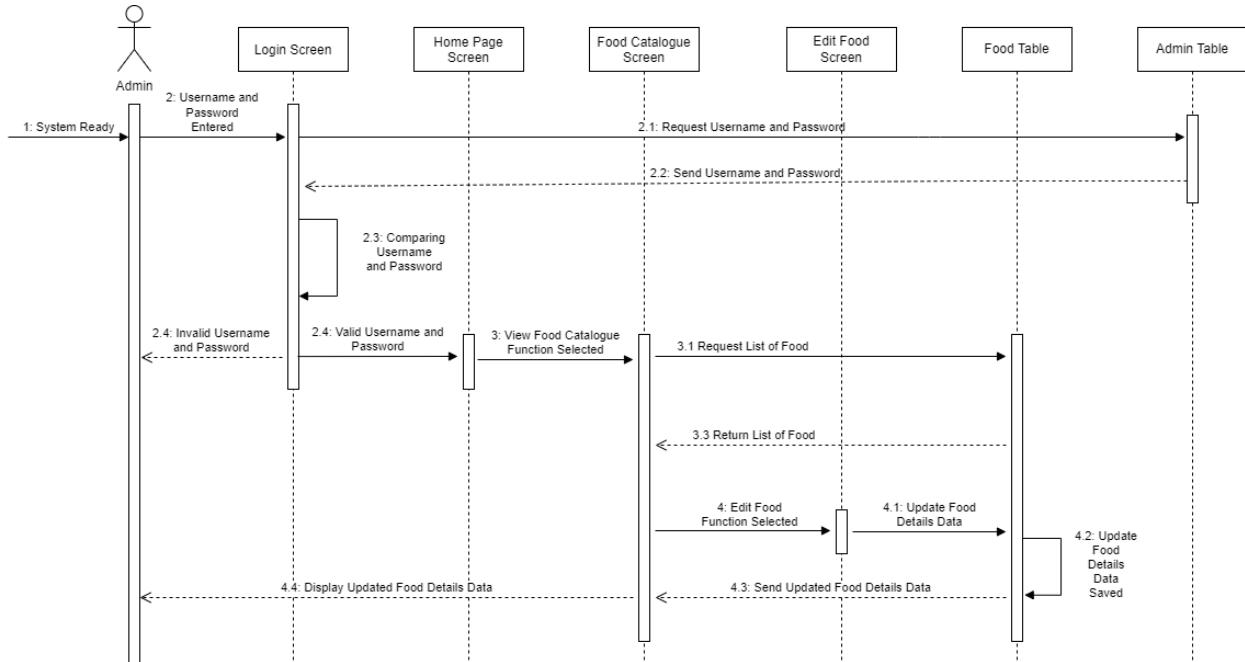
1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the View Food Catalog function to view the Food details.
5. The system will retrieve data from the Food table and display the Food data.
6. The admin selects the Add Food function, the system shows Add Food screen, the admin enters the details of the new Food and selects the save button.
7. The system will prompt confirm message, the admin can either select yes or no.
8. If yes, the system will check the entered details which cannot be empty values; if no, then the system will go back to the Add Food state.
9. The system will save the record in the Food table.
10. The system will retrieve data from the Food table to display the Food data.



**Figure 4.3: Sequence diagram of Add Food**

#### 4.2.3 Update food details

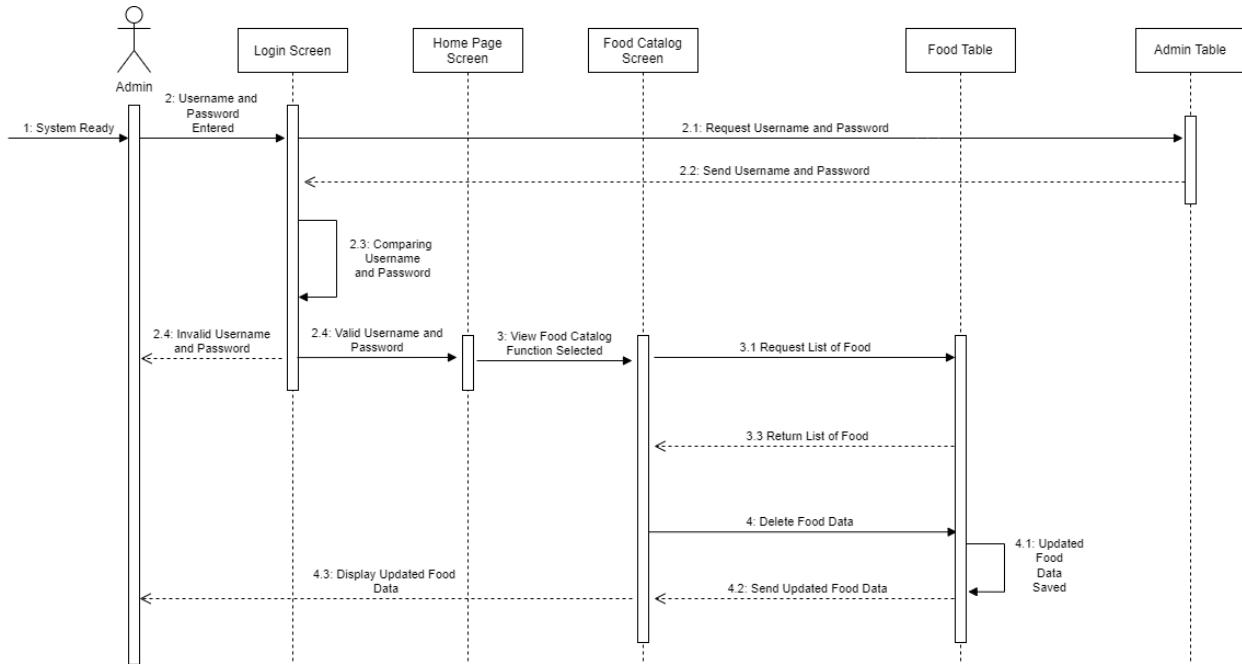
1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the View Food Catalog function to view the Food details.
5. The system will retrieve data from the Food table and display the Food data.
6. The admin selects the Edit Food function, calling the update function of the Food Table.
7. The system shows the Edit Food Screen.
8. The admin modifies the Food entries and clicks on the save button.
9. The system will prompt confirm message, the admin can either select yes or no.
10. If no, then the system will go back to the Edit Food state; if yes, the system will check the entered details which cannot be empty values.
11. The system will save the record in the Food table.
12. The system will retrieve data from the Food table to display the updated Food data.



**Figure 4.4: Sequence diagram of Update Food Details**

#### 4.2.4 Delete food

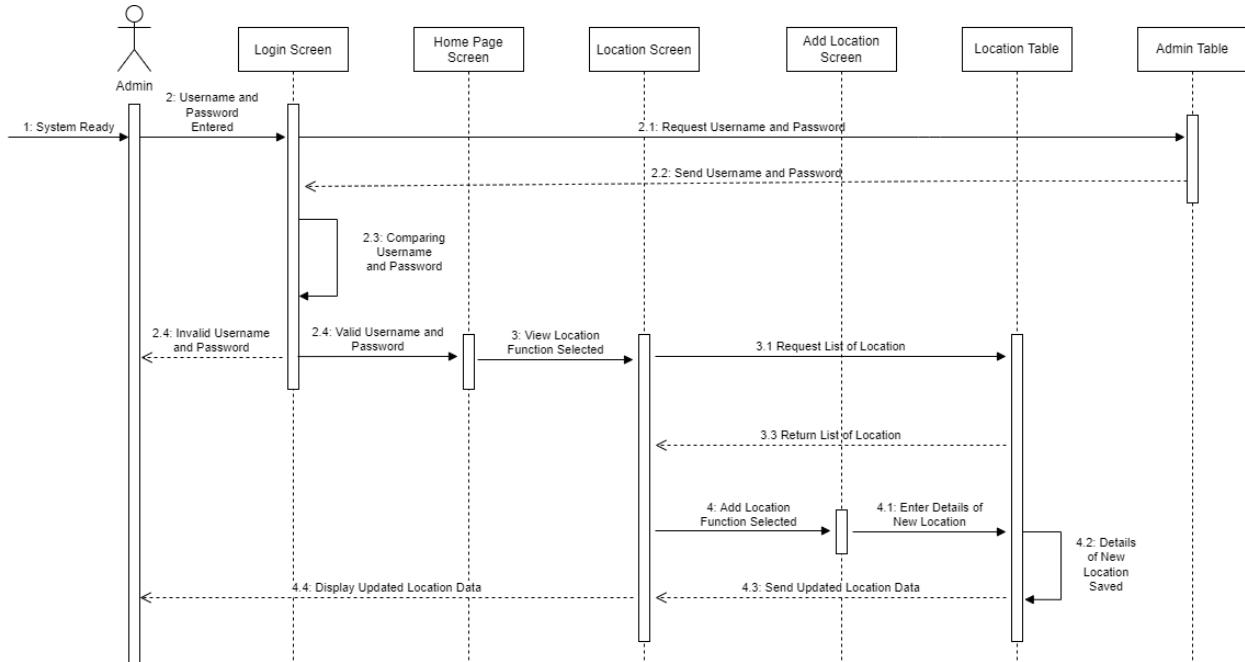
1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the View Food Catalog function to view the Food details.
5. The system will retrieve data from the Food table and display the Food data.
6. The admin can select the delete button to remove the Food.
7. The system will prompt confirm message, the admin can either select yes or no.
8. If no, then the system will go back to the Food Catalog screen; if yes, the Food data will be deleted in the Food table.
9. The system will retrieve data from the Food table to display the updated Food data.



**Figure 4.5: Sequence diagram of Delete Food**

#### 4.2.5 Add location

1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the View Location function to view the Location details.
5. The system will retrieve data from the Location table and display the Location data.
6. The admin selects the Add Location function, enters the details of the new Location and selects the save button.
7. The system will prompt confirm message, the admin can either select yes or no.
8. If yes, the system will check the entered details which cannot be empty values; if no, then the system will go back to the Add Location state.
9. The system will save the record in the Location table.
10. The system will retrieve data from the Location table to display the Location data.

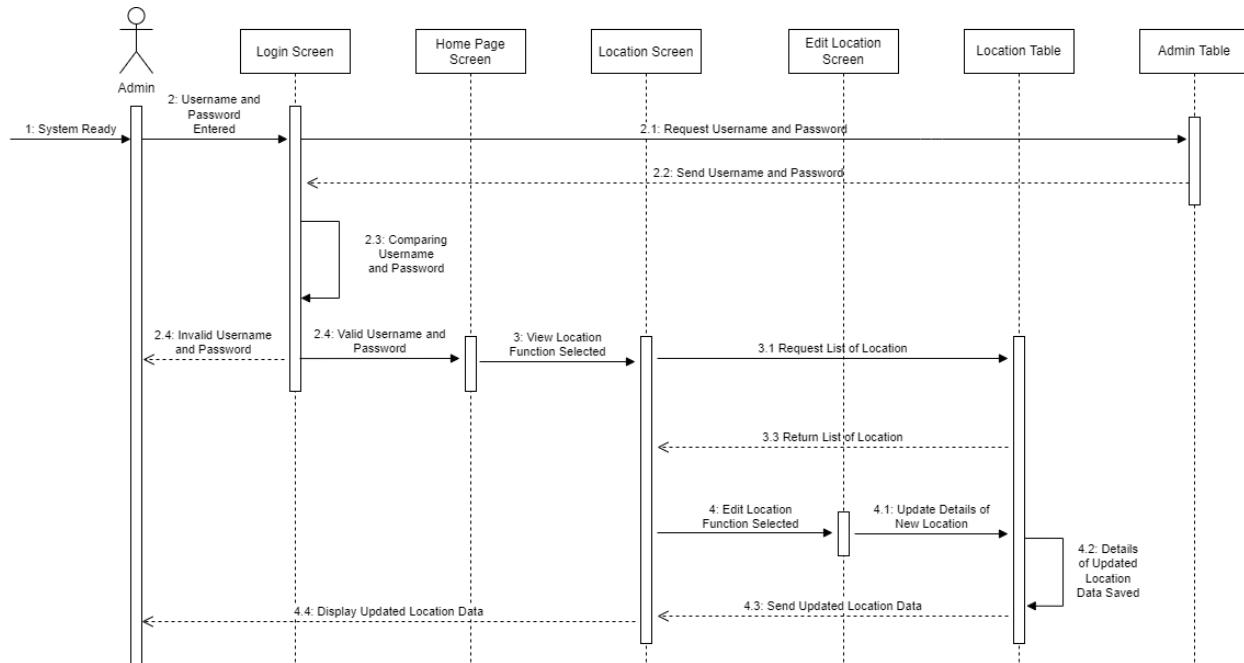


**Figure 4.6: Sequence diagram of Add Location**

#### 4.2.6 Update location details

1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the View Location function to view the Location details.
5. The system will retrieve data from the Location table and display the Location data.
6. The admin selects the Edit Location function, calling the update function of the Location Table.
7. The system shows the Edit Location screen.
8. The admin modifies the Location entries and clicks on the save button.
9. The system will prompt confirm message, the admin can either select yes or no.
10. If no, then the system will go back to the Edit Location state; if yes, the system will check the entered details which cannot be empty values.
11. The system will save the record in the Location table.

12. The system will retrieve data from the Location table to display the updated Location data.

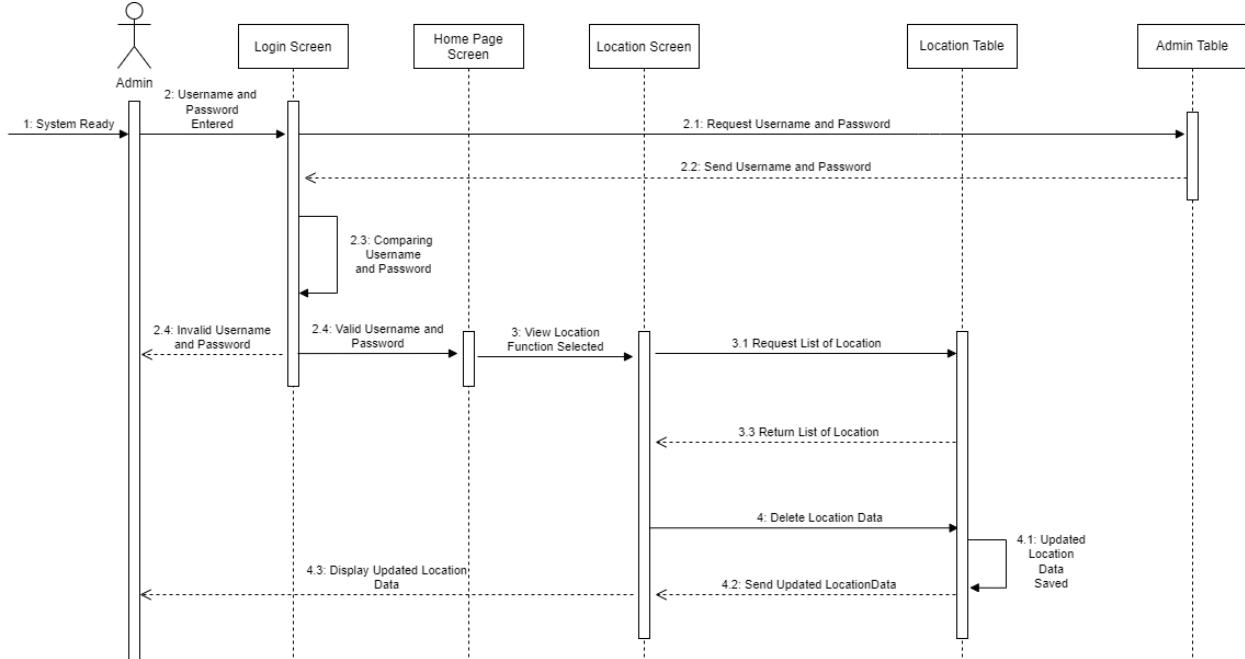


**Figure 4.7: Sequence diagram of Update Location Details**

#### 4.2.7 Delete location

1. The admin enters Username and Password into the system.
2. The system will retrieve data from the Admin table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the View Location function to view the Location details.
5. The system will retrieve data from the Location table and display the Location data.
6. The admin can select the delete button to remove the Location.
7. The system will prompt confirm message, the admin can either select yes or no.
8. If no, then the system will go back to the Location screen; if yes, the Location data will be deleted in the Location table.
9. The system will retrieve data from the Location table to display the updated Location data.

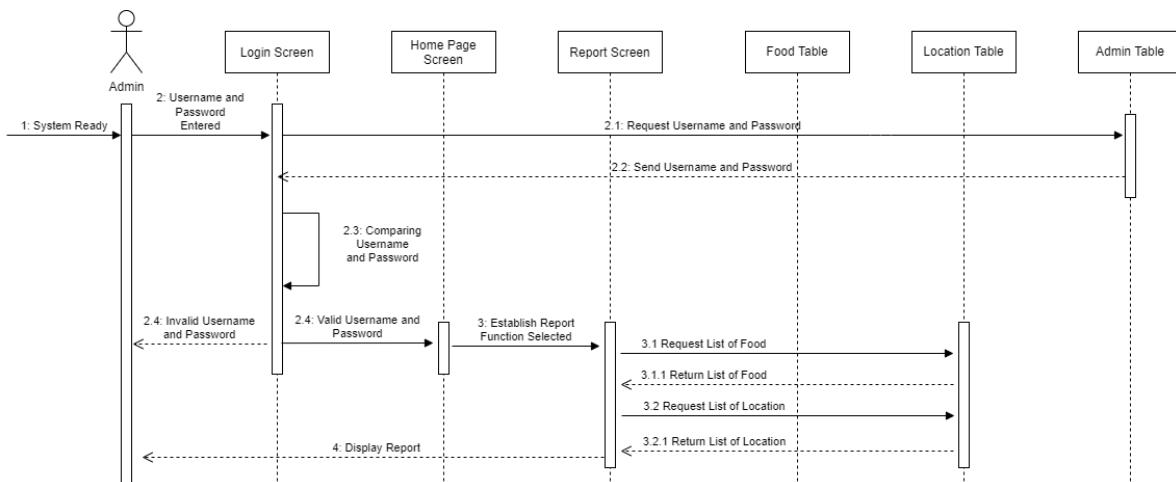
# Software Requirements Specification for Help@Cyberjaya Web Application



**Figure 4.8: Sequence diagram of Delete Location**

## 4.2.8 Establish report

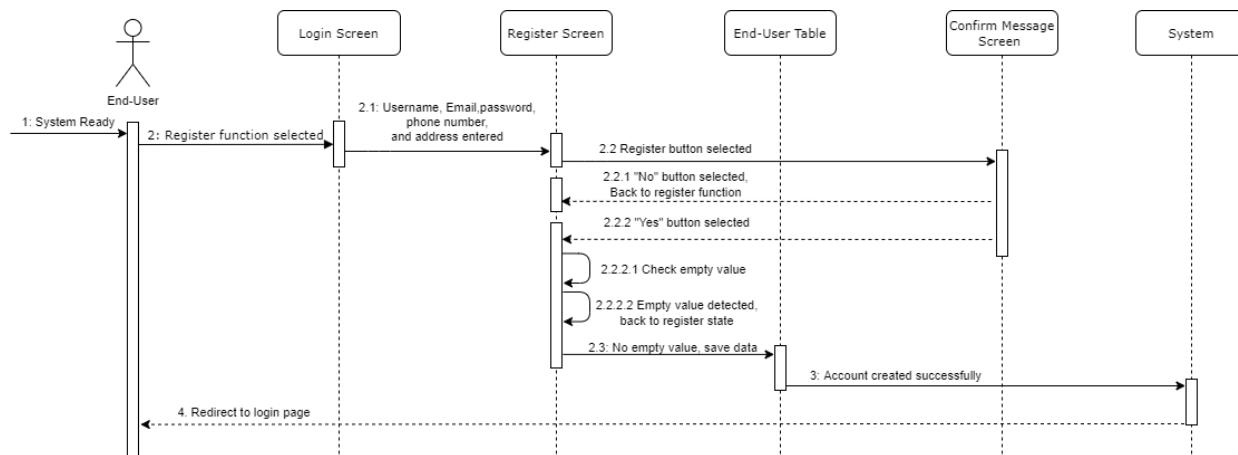
1. The admin enters Username and Password into the system.
2. The system retrieve data from the Admin table and compare the Username and Password.
3. If correct, the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The admin selects the Establish Report function to view the report.
5. The system retrieves data from Food table and Location table, then display the data.



**Figure 4.9: Sequence diagram of Establish Report**

#### 4.2.9 Sign up

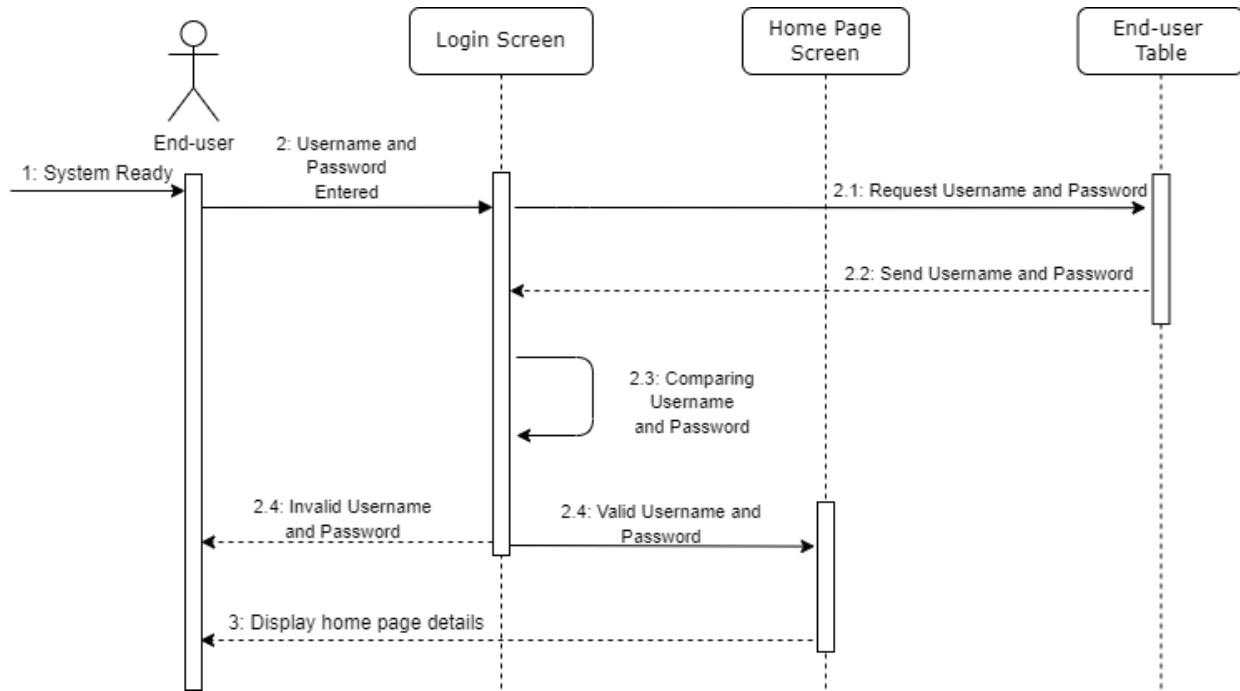
1. The end-user enters Username, Email, Password, Name, Phone Number, and Address into the system.
2. The end-user selects the register button and the system will prompt a confirm message, at which the end-user can either select yes or no. If no, the system goes back to the Register state. If yes, the system will check the entered details which cannot be empty values and wrong input format.
3. The data entered by the end-user will be saved to the End-user table.
4. The system will redirect to the Login page.



**Figure 4.10: Sequence Diagram of Sign up**

#### 4.2.10 Log in (End-user)

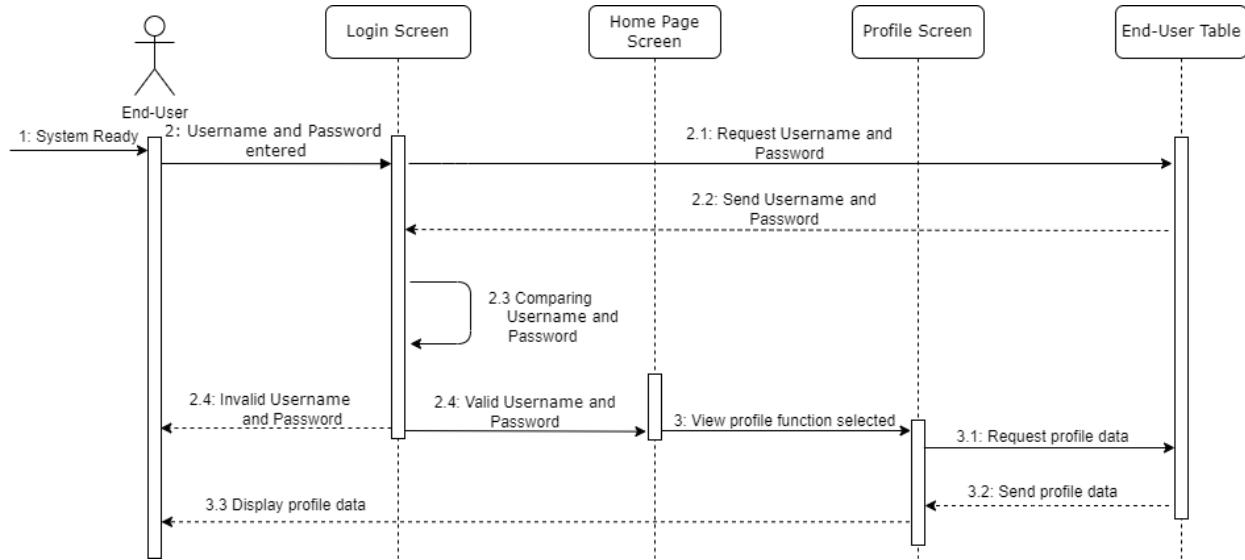
1. The end-user enters Username and Password into the system.
2. The system will retrieve data from the End-user table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.



**Figure 4.11: Sequence diagram of End-user Log In**

#### 4.2.11 View profile

1. The end-user enters Username and Password into the system.
2. The system will retrieve data from the End-user table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The end-user selects the View Profile detail function to view their personal detail.
5. The system will retrieve data from the End-user table and display the profile data.

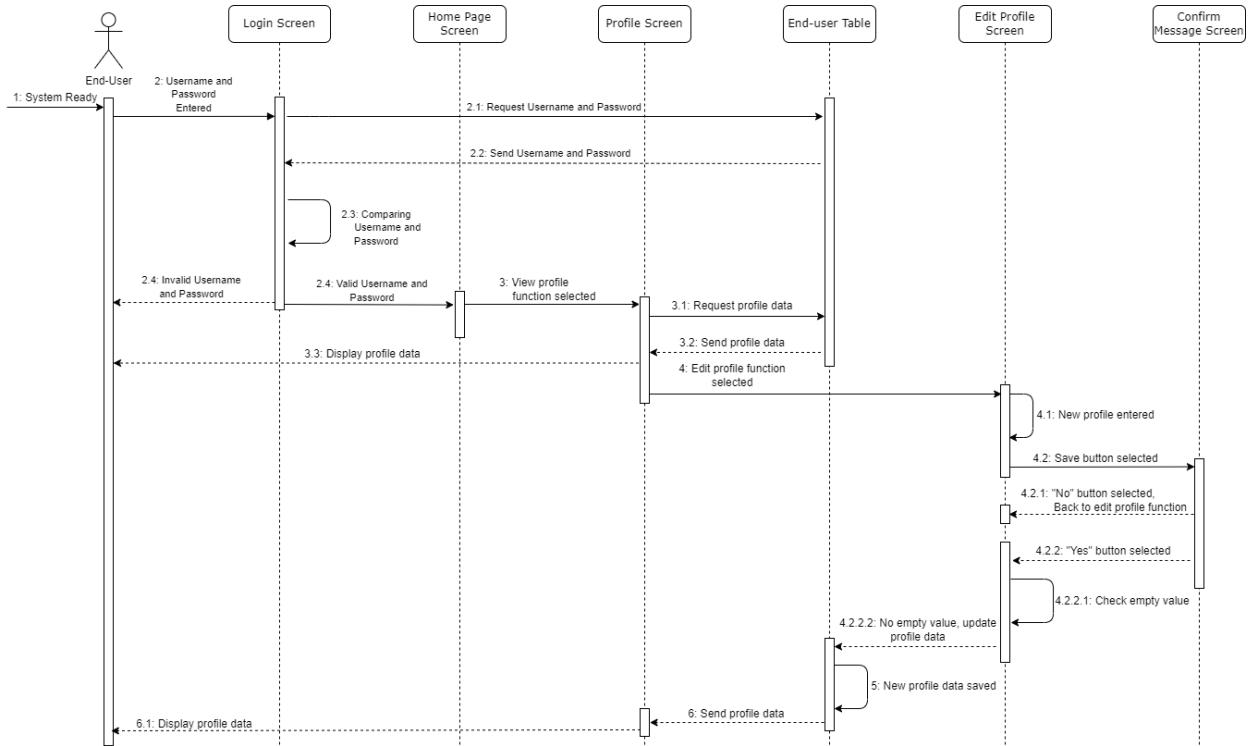


**Figure 4.12: Sequence diagram of View Profile**

#### 4.2.12 Edit profile

1. The end-user enters Username and Password into the system.
2. The system will retrieve data from the End-user table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The end-user selects the View Profile detail function.
5. The system will retrieve data from the End-user table and display the profile data.
6. The end-user selects the Edit Profile function to edit their profile.
7. The end-user enters new profile data and selects the save button to update the profile.
8. The system will prompt confirm message, the end-user can either select yes or no.
9. If yes, the system will check the entered details which cannot be empty values; if no, then the system will go back to the Edit Profile state.
10. Then, the system will save the record in the End-user table.
11. The system will retrieve data from the End-user table to display the profile data.

# Software Requirements Specification for Help@Cyberjaya Web Application

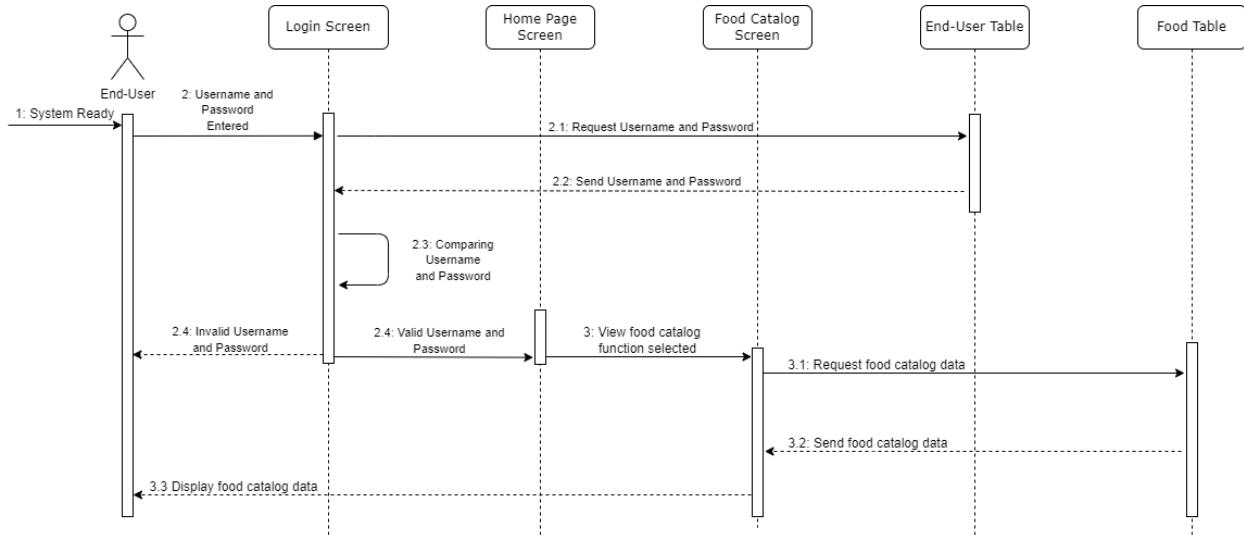


**Figure 4.13: Sequence diagram of Edit Profile**

### 4.2.13 View food catalog

1. The end-user enters Username and Password into the system.
2. The system will retrieve data from the End-user table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The end-user selects the View Food Catalog function to view the food details.
5. The system will retrieve data from the Food table and display the Food data.

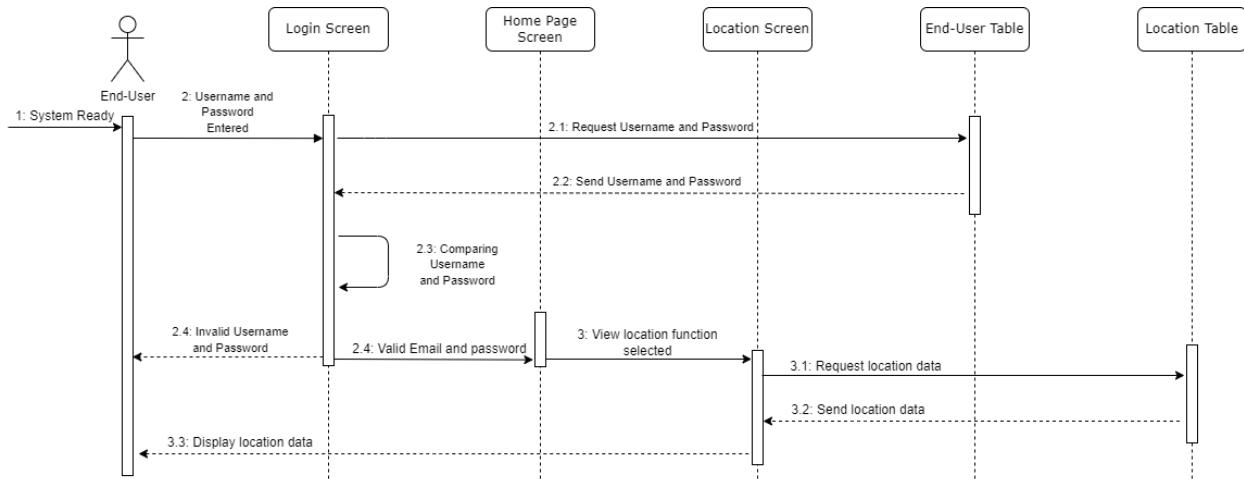
# Software Requirements Specification for Help@Cyberjaya Web Application



**Figure 4.14: Sequence diagram of View Food Catalog**

## 4.2.14 View location

1. The end-user enters Username and Password into the system.
2. The system will retrieve data from the End-user table and compare the Username and Password.
3. If correct, then the system shows the Home Page; If incorrect, the system goes back to the Login page.
4. The end-user selects the View Location function to view the Location details.
5. The system will retrieve data from the Location table and display the Location data.



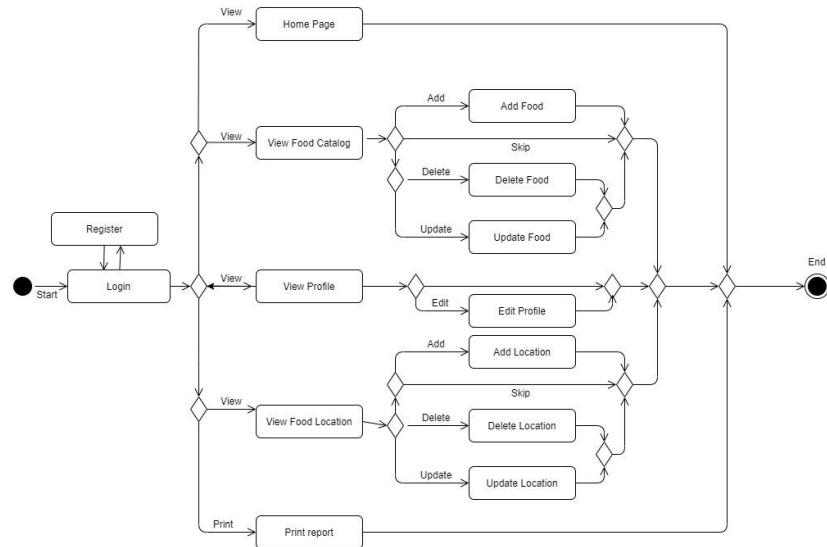
**Figure 4.15: Sequence diagram of View Location**

## Chapter 5: Behavioral Requirements

### 5.1 State Diagram

#### 5.1.1 Admin

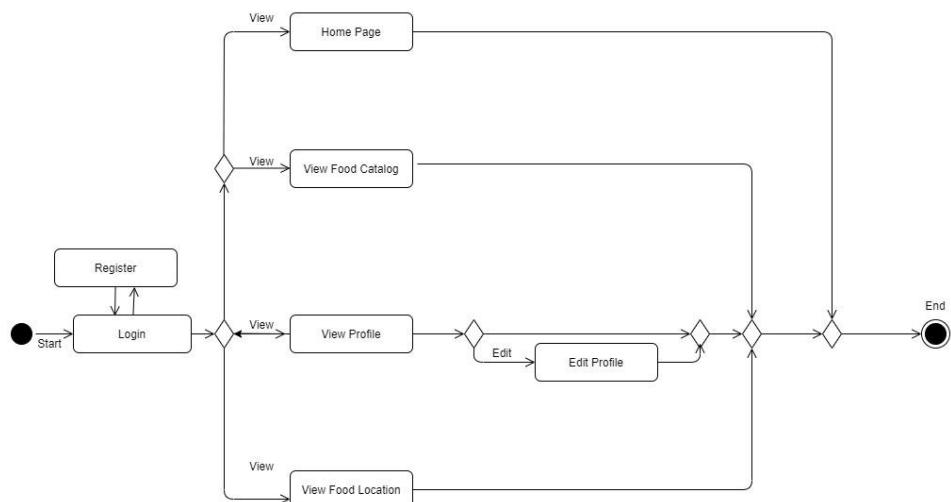
This section discusses the state diagram of the admin.



**Figure 5.1: Admin State Diagram**

#### 5.1.2 End-user

This section discusses the state diagram of the end-user.



**Figure 5.2: End-user State Diagram**

## Chapter 6: Data Design

This section describes the data dictionary used for the database in detail.

### 2.1 Data Dictionary

A data dictionary is a file or a set of files that includes a database's metadata. The data dictionary holds records about other objects in the database, such as data ownership, data relationships to other objects, and other data. The data dictionary is an essential component of any relational database. There are Admin table, End-user table, Location table, Food table, and Ratio Stamp table; Ratio Stamp table is to distinguish the many-to-many relationship between Location table and Food table.

The data dictionary is shown as below:

TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	RANGE	REQUIRED	PK OR FK	FK REFERENCED TABLE
End-User	USER_ID	User ID	VARCHAR2 (10)	Xxxxx			PK	
	USER_USERNAME	User Username	VARCHAR2 (255)	Xxxxx		Y		
	USER_FNAME	User First Name	VARCHAR2 (20)	Xxxxx		Y		
	USER_LNAME	User Last Name	VARCHAR2 (20)	Xxxxx		Y		
	USER_PASSWORD	User Password	VARCHAR2 (20)	Xxxxx		Y		
	USER_EMAIL	User Email	VARCHAR2 (40)	Xxxxx		Y		
	USER_PHONENO	User Phone Number	VARCHAR2 (11)	Xxxxx		Y		
	USER_ADDRESSLINE1	User Address Line 1	VARCHAR2 (40)	Xxxxx				
	USER_ADDRESSLINE2	User Address Line 2	VARCHAR2 (40)	Xxxxx		Y		
	USER_POSTCODE	User Postcode	NUMBER (5)	99999		Y		
	USER_CITY	User City	VARCHAR2 (15)	Xxxxx		Y		
	USER_STATE	User State	VARCHAR2 (15)	Xxxxx		Y		
	IS_ADMIN	Check Role	NUMBER (1)	X	"0", "1"			
Location	LOCATION_ID	Location ID	VARCHAR2 (10)	Xxxxx			PK	

Software Requirements Specification for Help@Cyberjaya Web Application

	LOCATION_NO LOCATION_ADDRESSLINE1 LOCATION_ADDRESSLINE2 LOCATION_POSTCODE LOCATION_CITY LOCATION_STATE LOCATION_PIC_NAME  LOCATION_PIC_PHONENO  LOCATION_PICTURE	Location Name Location Address Line 1 Location Address Line 2 Location Postcode Location City Location State Location Person in Charge Name  Location Person in Charge Phone Number  Location Picture	VARCHAR2 (100) VARCHAR2 (40) VARCHAR2 (40) NUMBER (5) VARCHAR2 (15) VARCHAR2 (15) VARCHAR2 (20)  VARCHAR2 (11)  VARCHAR2 (255)	Xxxxx Xxxxx Xxxxx 99999 Xxxxx Xxxxx Xxxxx  Xxxxx		Y Y Y Y Y Y		
Food	FOOD_ID FOOD_CATEGORY FOOD_NAME FOOD_QUANTITY USER_ID ADMIN_ID FOOD_PICTURE	Food ID Food Category Food Name Food Quantity User ID Admin ID Food Picture	VARCHAR2 (10) VARCHAR2 (20) VARCHAR2 (20) NUMBER (5) VARCHAR2 (10) VARCHAR2 (10) VARCHAR2 (255)	Xxxxx Xxxxx Xxxxx 99999 Xxxxx Xxxxx Xxxxx		Y Y Y	PK  FK FK	USER_ID ADMIN_ID
Ratio Stamp	LOCATION_ID FOOD_ID	Location ID Food ID	VARCHAR2 (10) VARCHAR2 (10)	Xxxxx Xxxxx		Y Y	PK,FK PK, FK	LOCATION_ID FOOD_ID

## Chapter 7: Architecture Design

This section discusses the architecture design of the system.

### 3.1 Software Architecture

The software architecture of Help@Cyberjaya is separated into two major components: admin, and end-user. These two components both have the login component. Admin will be linked to the admin page after login; end-user will be linked to the user homepage after they have successfully logged in. The architecture diagram of the system is included in this section.

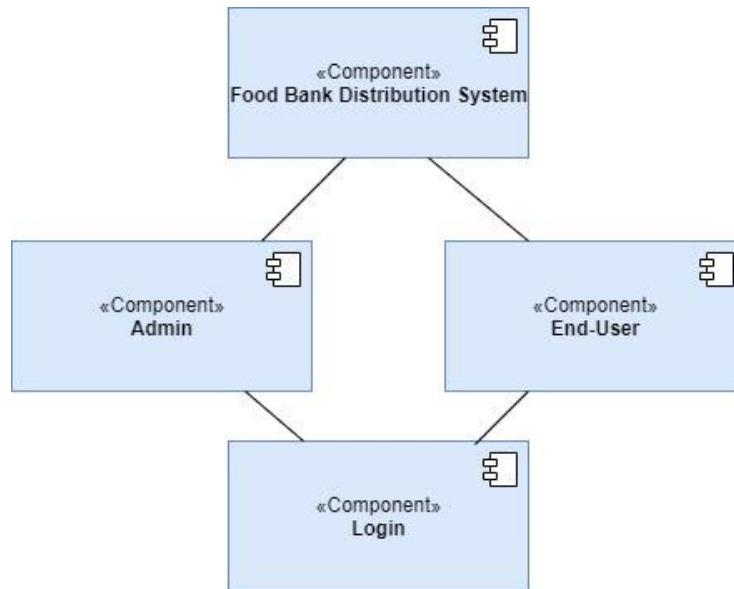


Figure 3.1: Architecture Diagram of Help@Cyberjaya

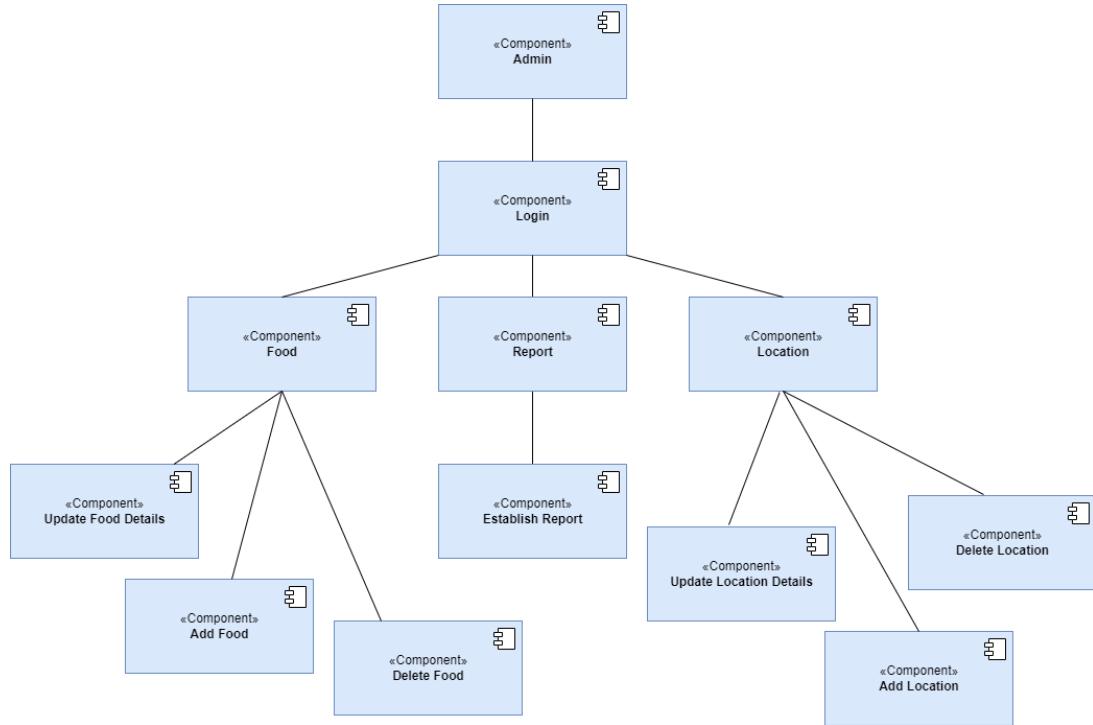
#### 3.1.1 Subsystem (Admin)

The admin subsystem starts from the admin login to the system. Next, there will be several options to be chosen by the admin.

Firstly, the Food component is divided into 5 components: Update Food Details, Add Food, and Delete Food.

Second, in the Report component, the admin is able to establish and view reports that show the information about the food and location.

Lastly, the Location component consists of Update Location Details, Add Location, and Delete Location.



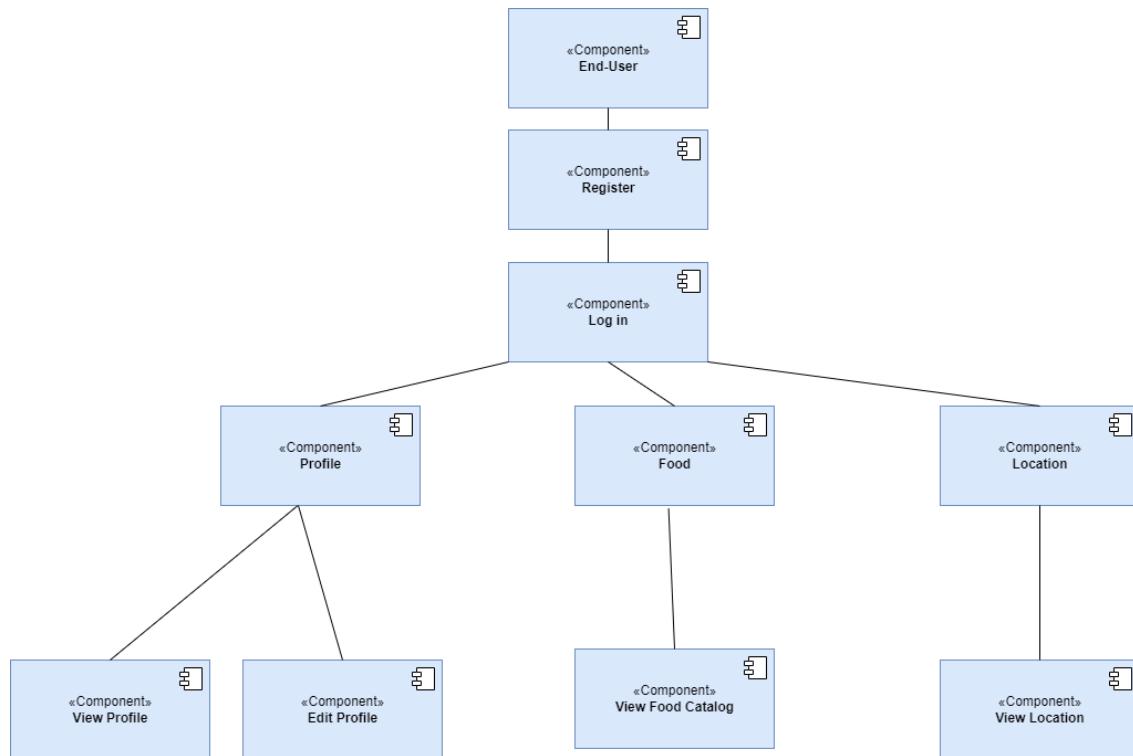
**Figure 3.2: Architecture diagram of subsystem for Admin**

### 3.1.2 Subsystem (*End-user*)

The End-user subsystem starts with a Register component. If the end-user does not have an account, the user needs to register an account before they log in. After registration, the user needs to log in by username and password.

After the user successfully logs in, the user will be linked to the homepage which they can browse to the other three components. First, the profile component allows the user to view, and edit the profile.

The Food component is for the user to view food catalog; while for the Location component, the user is able to view the location of the food banks.



**Figure 3.3: Architecture diagram of subsystem for End-user**

## Chapter 8: Interface Design

### 8.1 Main Screen

This is the homepage of Help@Cyberjaya. This will be shown on the computer screen of the admin or end-user once they have successfully logged in.

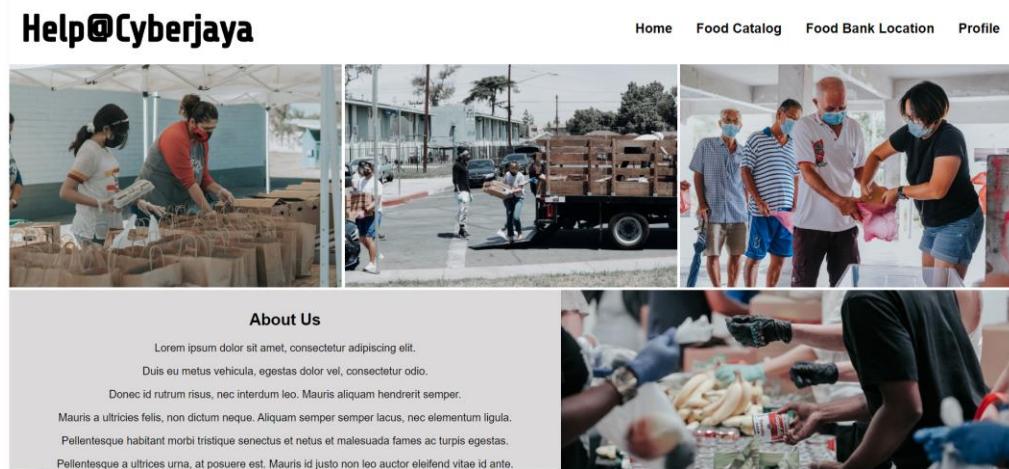


Figure 8.3: Home Page

### 8.2 Log in

The admin and end-user have to log in to access the system.

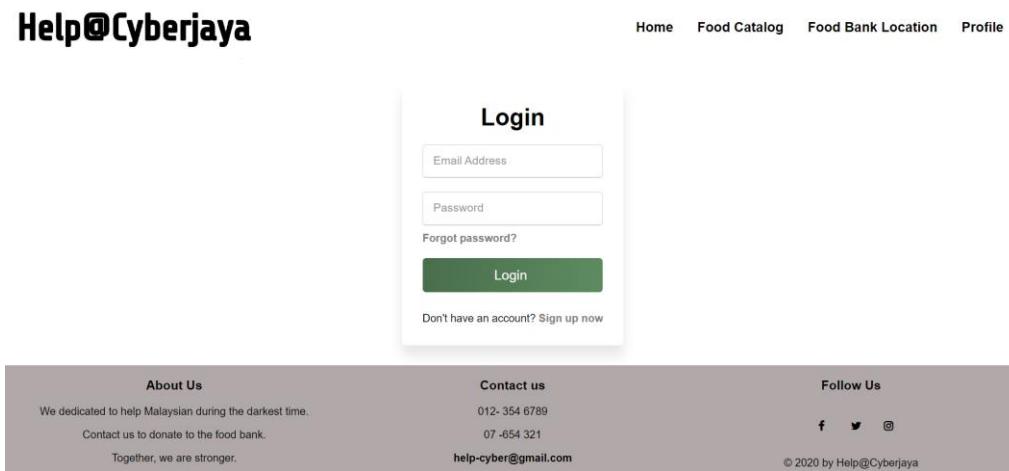


Figure 8.4: Log in page

### 8.3 Sign up

If the end-user doesn't have an account, they must provide username, email address, password, name, phone number, and address to sign up for a new account.

The screenshot shows the 'Sign Up' page of the Help@Cyberjaya website. At the top, there is a navigation bar with links to Home, Food Catalog, Food Bank Location, and Profile. The main content area is titled 'Sign Up' and contains ten input fields for user information: Email Address, Password, Confirm password, First Name, Last Name, Phone number, Address Line 1, Address Line 2, Postcode, City, and State. Below these fields is a green 'Sign up' button. At the bottom of the page, there is a footer section with three columns: 'About Us', 'Contact us', and 'Follow Us'. The 'About Us' column contains text about helping Malaysians during the darkest time, a call to donate to the food bank, and a tagline 'Together, we are stronger.'. The 'Contact us' column lists two phone numbers (012-354 6789, 07-654 321) and an email address (help-cyber@gmail.com). The 'Follow Us' column includes social media icons for Facebook, Twitter, and Instagram, along with a copyright notice: '© 2020 by Help@Cyberjaya'.

Figure 8.5: End-user Sign up page

## 8.4 Profile

The page shows the profile of the end-user.

The screenshot shows the 'Profile' section of the Help@Cyberjaya web application. At the top, there is a navigation bar with links for Home, Food Catalog, Food Bank Location, and Profile. The main content area is titled 'Profile' and contains a form with the following fields:

Email	akt@gmail.com
First Name	Ah Kou
Last Name	Tan
Phone number	0111111222
Address line 1	34, Jalan Hang Tuah
Address line 2	Taman Beruang
Postcode	75350
City	Melaka Tengah
State	Melaka

At the bottom of the form is a green 'Edit Profile' button.

Below the form, there is a footer section with three columns:

- About Us**

We dedicated to help Malaysian during the darkest time.  
Contact us to donate to the food bank.  
Together, we are stronger.
- Contact us**

012- 354 6789  
07 -654 321  
help-cyber@gmail.com
- Follow Us**

f    t    g

At the very bottom right of the footer, it says "© 2020 by Help@Cyberjaya".

**Figure 8.6: End-user Profile page**

## 8.5 Edit Profile

The end-user can click on the edit profile button on the profile page, then it will lead them to edit profile page to change their personal details.

The screenshot shows the 'Edit Profile' page of the Help@Cyberjaya website. At the top, there is a navigation bar with links for Home, Food Catalog, Food Bank Location, and Profile. The main content area is titled 'Edit Profile' and contains a form with the following fields:

- Email Address
- Password
- Confirm password
- First Name
- Last Name
- Phone number
- Address Line 1
- Address Line 2
- Postcode
- City
- State

At the bottom of the form is a green 'Save' button. Below the form, there is a footer section with three columns: 'About Us', 'Contact us', and 'Follow Us'. The 'About Us' column contains text about helping Malaysians during the darkest time and encourages donations. The 'Contact us' column provides phone numbers (012-354 6789, 07-654 321) and an email address (help-cyber@gmail.com). The 'Follow Us' column includes social media icons for Facebook, Twitter, and Instagram, with the text '© 2020 by Help@Cyberjaya' below it.

Figure 8.7: Edit profile page

## 8.6 View Food Catalog

The page shows the food available in the food banks. The end-user can see the quantity and the respective food category.

The screenshot displays the 'FOOD CATALOGUE' section of the Help@Cyberjaya website. It lists three food items:

- Fresh Eggs**: Provided by: Najib bin Mohammad, Quantity Available: 128. Request button.
- Sardine**: Provided by: Tan Xiao Ming, Quantity Available: 24. Request button.
- Instant Noodles**: Provided by: Anbuselvan Ramanan, Quantity Available: 64. Request button.

Below the catalogue, there are three sections: About Us, Contact Us, and Follow Us.

**About Us**  
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Together, we are stronger.

**Contact Us**  
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+60 7-986 5432  
help-cyber@gmail.com

**Follow Us**  
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Figure 8.8: View Food Catalog

## 8.7 View Location

The page shows the details of the location of the food bank.

The screenshot shows the 'View Location' page of the Help@Cyberjaya website. At the top, there is a navigation bar with links for Home, Food Catalogue, Food Bank Location, and Profile. Below the navigation bar, a search form is present with fields for Address (containing 'Jalan Bangswaan') and Postcode, and a SEARCH button. Two locations are listed below the search form:

- Bengkel Kereta Fujiwara**  
G-16, Jalan Bangswaan 3/2, Taman Bestari,  
63000 Cyberjaya, Selangor, Malaysia.  
Person-In-Charge: Keith Tan Ah Beng  
Contact Number: +60 13-435 4269  
[SEE LOCATION](#)
- ABC Pharmacy**  
G-8, Jalan Bangswaan 6/4, Taman Bestari,  
63000 Cyberjaya, Selangor, Malaysia.  
Person-In-Charge: Faisal bin Kammarudin  
Contact Number: +60 19-532 4631  
[SEE LOCATION](#)

At the bottom of the page, there are three columns: 'About Us', 'Contact Us', and 'Follow Us'. The 'About Us' column contains the text: 'We are dedicated to help Malaysian during the darkest time. Together, we are stronger.' The 'Contact Us' column lists phone numbers (+60 12-345 6789, +60 7-986 5432) and an email address (help-cyber@gmail.com). The 'Follow Us' column includes social media icons for Facebook, Twitter, and YouTube, and the text: '@ 2020 by Help@Cyberjaya'.

Figure 8.9: View Location page

## 8.8 Add Location

The admin can add more locations on this page by entering the details of new location.

The screenshot shows the 'ADD LOCATION' form. At the top left is a placeholder image of a street scene. To its right are four input fields: 'Name of Property', 'Address', 'Name of Person-In-Charge', and 'Contact Number'. Below these fields is a 'SUBMIT' button. On the left side of the form is a 'UPLOAD' button with the note 'Maximum file size: 3MB Supports JPEG, PNG image file format.' At the bottom of the page is a footer bar containing three sections: 'About Us', 'Contact Us', and 'Follow Us'.

**Help@Cyberjaya**

Home Food Catalogue Food Bank Location Profile

ADD LOCATION

Name of Property

Address

Name of Person-In-Charge

Contact Number

UPLOAD

Maximum file size: 3MB  
Supports JPEG, PNG image file format.

SUBMIT

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Figure 8.8: Add Location page

## 8.9 Update Location

The admin can update the existing location on this page by editing the details of the location.

The screenshot shows the 'UPDATE LOCATION' page. At the top, there is a navigation bar with links to Home, Food Catalogue, Food Bank Location, and Profile. Below the navigation bar, the main form area has the following fields:

- Name of Property: A1 Car Wash
- Address: G-2, Jalan Permai 3, Taman Rimba Permai, 63100 Cyberjaya, Selangor.
- Name of Person-In-Charge: Jeremy Daniel Mark Clarkson
- Contact Number: +60 12-461

On the left side of the form, there is a placeholder image of a car wash facility and a 'UPLOAD' button. Below the 'UPLOAD' button, there is a note: 'Maximum file size: 3MB Supports JPG, PNG image file format.'

At the bottom right of the form is a large 'UPDATE' button.

At the very bottom of the page, there is a footer section with three columns:

- About Us**: We are dedicated to help Malaysian during the darkest time. *Together, we are stronger.*
- Contact Us**: +60 12-345 6789, +60 7-986 5432, help-cyber@gmail.com
- Follow Us**: Icons for Facebook, Twitter, and YouTube, followed by the text '@ 2020 by Help@Cyberjaya'

Figure 8.9: Update Location page

## 8.10 Delete Location

The admin can delete the existing location on this page by clicking the delete button.

The screenshot shows a web application interface titled "Help@Cyberjaya". At the top, there is a navigation bar with links for Home, Food Catalogue, Food Bank Location, and Profile. Below the navigation bar, a search bar has "DELETE LOCATION" placeholder text. Underneath the search bar, there are two input fields: "Address" containing "Taman Bestari" and "Postcode" which is empty. A "SEARCH" button is located to the right of the postcode field. The main content area displays three location entries, each with a thumbnail image, name, address, contact person, contact number, and a "DELETE" button. The first location is "Bengkel Kereta Fujiwara" at G-16, Jalan Bangsawan 3/2, Taman Bestari, 63000 Cyberjaya, Selangor, Malaysia. The second is "ABC Pharmacy" at G-8, Jalan Bangsawan 6/4, Taman Bestari, 63000 Cyberjaya, Selangor, Malaysia. The third is "Restoran Tom Yam D'Tanjung" at 12, Jalan Semangat 2, Taman Bestari. At the bottom of the page, there are sections for "About Us", "Contact Us", and "Follow Us".

Figure 8.10: Delete Location page

## 8.11 Add Food

The admin can add more food on this page by entering the details of new food.

The screenshot shows the 'ADD FOOD' form. On the left, there is a placeholder image of a yellow can of 'AYAM BRAND Tuna Flakes in Sunflower Oil'. Below it is a grey 'UPLOAD' button. A note below the button specifies a maximum file size of 3MB and supports JPG and PNG formats. To the right of the image are three input fields: 'Name of Food', 'Provided by', and 'Quantity Available'. At the bottom right of the form is a grey 'SUBMIT' button. The top navigation bar includes links for Home, Food Catalogue, Food Bank Location, and Profile.

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**Figure 8.11: Add Food page**

## 8.12 Update Food

The admin can update the existing food on this page by editing the details of the food.

The screenshot shows the 'Update Food' page. At the top, there is a navigation bar with the 'Help@Cyberjaya' logo and links for Home, Food Catalogue, Food Bank Location, and Profile. Below the navigation bar, the title 'UPDATE FOOD' is displayed. On the left side, there is a placeholder image for a food item, labeled 'Jalap SOY SAUCE'. Below the image is a 'UPLOAD' button and a note indicating a maximum file size of 3MB and support for JPG and PNG formats. To the right of the image, there are three input fields: 'Name of Food' containing 'Soy Sauce (Salty)', 'Provided by' containing 'C. M. Rajagopalu', and 'Quantity Available' containing '12'. At the bottom right of the form is a large 'UPDATE' button.

<b>About Us</b> We are dedicated to help Malaysian during the darkest time. Together, we are stronger.	<b>Contact Us</b> +60 12-345 6789 +60 7-986 5432 help-cyber@gmail.com	<b>Follow Us</b> ○ △ □ © 2020 by Help@Cyberjaya
--	--	---

Figure 8.12: Update Food page

### 8.13 Delete Food

The admin can delete the existing food on this page by clicking the delete button.

The screenshot shows a web application interface for managing food items. At the top, there is a navigation bar with links for Home, Food Catalogue, Food Bank Location, and Profile. Below the navigation bar, the main content area has a header "DELETE FOOD". There are three items listed:

- Fresh Eggs**: An image of a tray of brown eggs. Details: Provided by: Najib bin Mohammad, Quantity Available: 128. A "DELETE" button is present.
- Sardine**: An image of a can of Ayam Brand Sardines. Details: Provided by: Tan Xiao Ming, Quantity Available: 24. A "DELETE" button is present.
- Instant Noodles**: An image of a Maggi Kari 5+1 pack. Details: Provided by: Anbuselvan Ramanan, Quantity: 64. A "DELETE" button is present.

At the bottom of the page, there are three footer sections: "About Us", "Contact Us", and "Follow Us".

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Together, we are stronger.

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Figure 8.13: Delete Food page

## 8.14 Establish Report

The admin can view the report on the food and location and their respective details.

**Help@Cyberjaya**

**Summary**

**Food**

Total Food: 4

Food Available	
Food Category:	Vegetable
Name:	QingChong
Quantity:	5
Food Category:	Meat
Name:	Meat
Quantity:	5
Food Category:	Milk
Name:	HL Milk
Quantity:	3
Food Category:	Fruit
Name:	Banana
Quantity:	6

**Location**

Total Food Bank Location: 4

Food Bank Loaction Available	
Property Name:	MMU
Address:	Persiaran Multimedia 63100 Cyberjaya Selangor
Person-in-charge Name:	Kim
Person-in-charge Contact No.:	0126547890
Property Name:	99 SpeedMart
Address:	Biz Avenue II, Lingkaran Cyber Point Bar 63000 Cyberjaya Selangor
Person-in-charge Name:	June
Person-in-charge Contact No.:	037579635
Property Name:	7Eleven Cyber
Address:	Jalan GC 1 63000 Cyberjaya Selangor
Person-in-charge Name:	Ipin
Person-in-charge Contact No.:	034546987
Property Name:	Family Mart
Address:	Dpulze, Lingkaran Cyber Point Timur, Cyb 63000 Cyberjaya Selangor
Person-in-charge Name:	Nurul
Person-in-charge Contact No.:	01145693211

**About Us**

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Contact us to donate to the food bank.

Together, we are stronger.

**Contact us**

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07 -654 321  
[help-cyber@gmail.com](mailto:help-cyber@gmail.com)

**Follow Us**

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Figure 8.14: Establish report page

## Chapter 9: Component Design

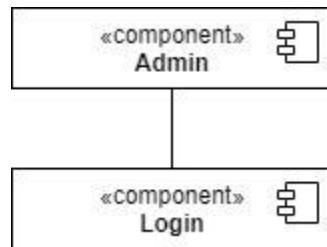
### 9.1 Main Component

There are two actors in Help@Cyberjaya: admin, and end-user. Admin can login, add food, delete food, update food, add location, update location, delete location, and establish report. End-user can login, sign up, view profile, edit profile, view food, and view location.

### 9.2 Admin

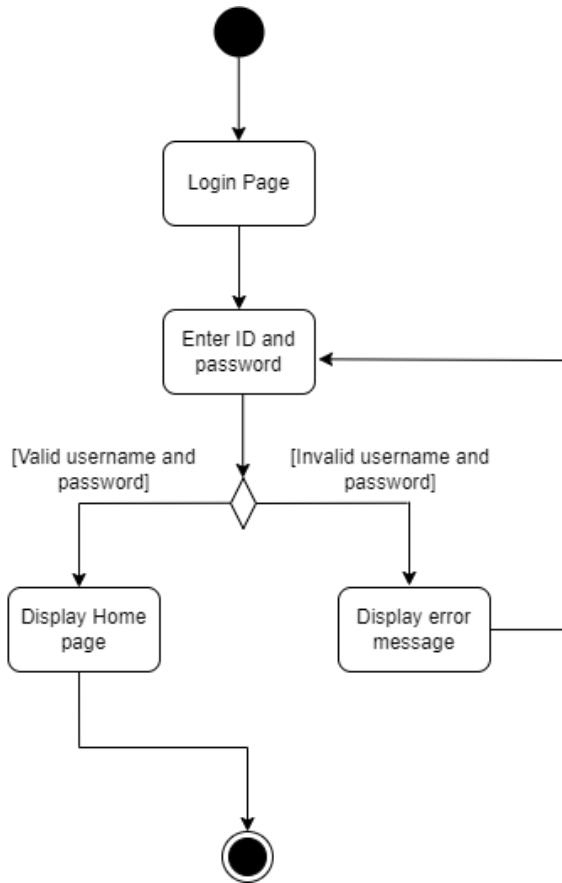
#### 9.2.1 Component 1

This component enables the admin to log in to the system and land on the Home Page.



**Figure 9.1: Component Diagram of Admin Login**

### 9.2.1.1 Activity Diagram



**Figure 9.2: Activity Diagram of Admin Login**

### 9.2.1.2 Pseudocode

"Login" button selected.

```

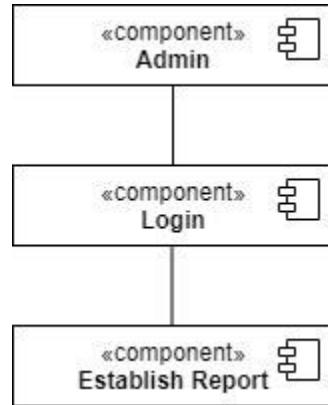
Select * from Admin where Admin = Admin_ID.Text

If
  Admin_ID.Text != String.Empty And
  Admin_Password.Text != String.Empty
Then
  If
    IS_ADMIN = 1
  Then
    Session("ID") = User_ID
    Select Admin/index.php From FoodBank
  Else
    Session("ID") = User_ID
    Select User/index.php From FoodBank
  Else
  
```

```
FailureText = "Invalid credentials. Please try again."  
Else  
FailureText = "Value(s) required."  
End If
```

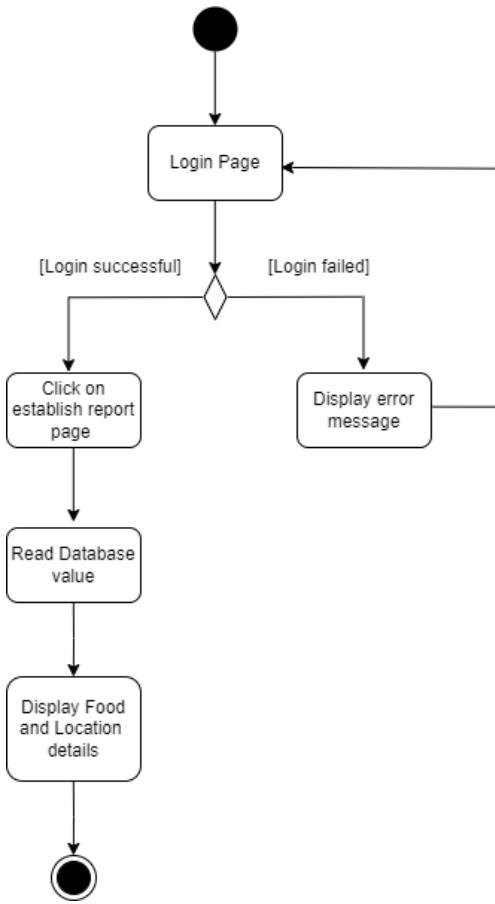
### **9.2.2 Component 2**

This component lets the admin view the summarized report of the food aid distribution and statistics.



**Figure 9.3: Component Diagram of Establish Report**

### 9.2.2.1 Activity Diagram



**Figure 9.4: Activity Diagram of Establish Report**

### 9.2.2.2 Pseudocode

“Establish Report” button selected.

```

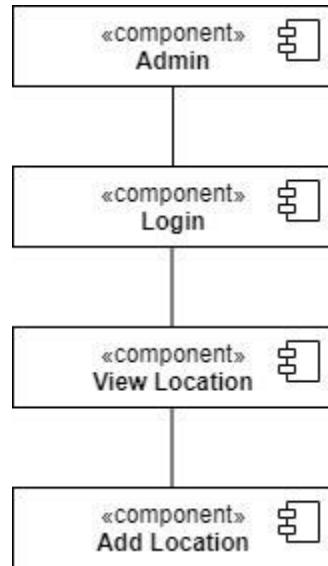
Select * from User
Select * from RatioStamp
Select * from Location
Select * from Food

Location_ID.String = Location_ID
Location_Postcode.Integer = Location_Postcode
Location_City.String = Location_City
Location_State.String = Location_State
Location_PIC_Name.String = Location_PIC_Name
Location_PIC_PhoneNo.String = Location_PIC_PhoneNo
Food_ID.String = Food_ID
Food_Category.String = Food_Category
Food_Name.String = Food_String
Food_Quantity.Integer = Food_Quantity
  
```

```
Food_Status.String = Food_Status
```

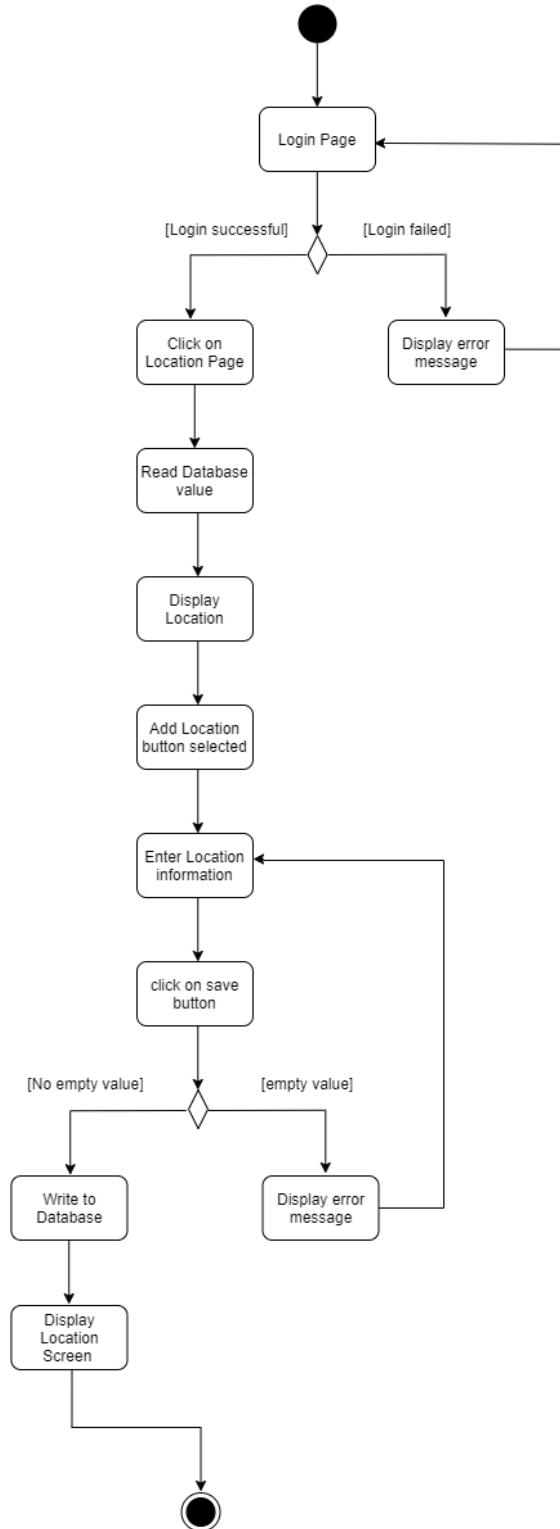
### 9.2.3 Component 4

This component lets the admin add new food aid locations via the “View Location” component.



**Figure 9.5: Component Diagram of Add Location**

### 9.2.3.1 Activity Diagram



**Figure 9.6: Activity Diagram of Add Location**

### 9.2.3.2 Pseudocode

"View Location" button selected.

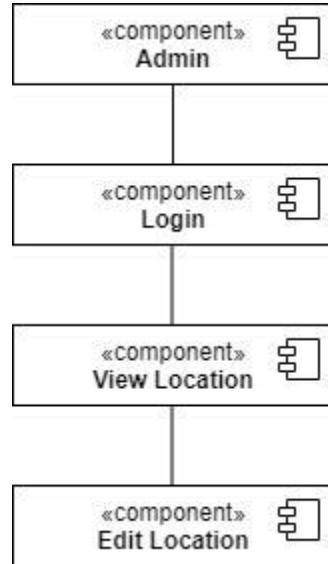
```
Select * from Location

Location_ID.String = Location_ID
Location_UnitNo.String = Location_UnitNo
Location_AddressLine1.String = Location_AddressLine1
Location_AddressLine2.String = Location_AddressLine2
Location_Postcode.Integer = Location_Postcode
Location_City.String = Location_City
Location_State.String = Location_State
Location_PIC_Name.String = Location_PIC_Name
Location_PIC_PhoneNo.String = Location_PIC_PhoneNo

If
    AddLocation.Button clicked
Then
    If
        Location_UnitNo.Text != String.Empty And
        Location_AddressLine1.Text != String.Empty And
        Location_Postcode.Text != String.Empty And
        Location_City.Text != String.Empty And
        Location_State.Text != String.Empty And
        Location_PIC_Name.Text != String.Empty And
        Location_PIC_PhoneNo.Text != String.Empty
    Then
        Insert Into Location(Location_ID, Location_UnitNo,
        Location_AddressLine1, Location_AddressLine2, Location_Postcode,
        Location_City, Location_State, Location_PIC_Name, Location_PIC_PhoneNo)
            Values ((Location_ID.Size + 1), Location_UnitNo.Text,
        Location_AddressLine1.Text, Location_AddressLine2.Text,
        Location_Postcode.Text, Location_City.Text, Location_State.Text,
        Location_PIC_Name.Text, Location_PIC_PhoneNo.Text)
    Else
        FailureText = "Value(s) required."
    End If
End If
```

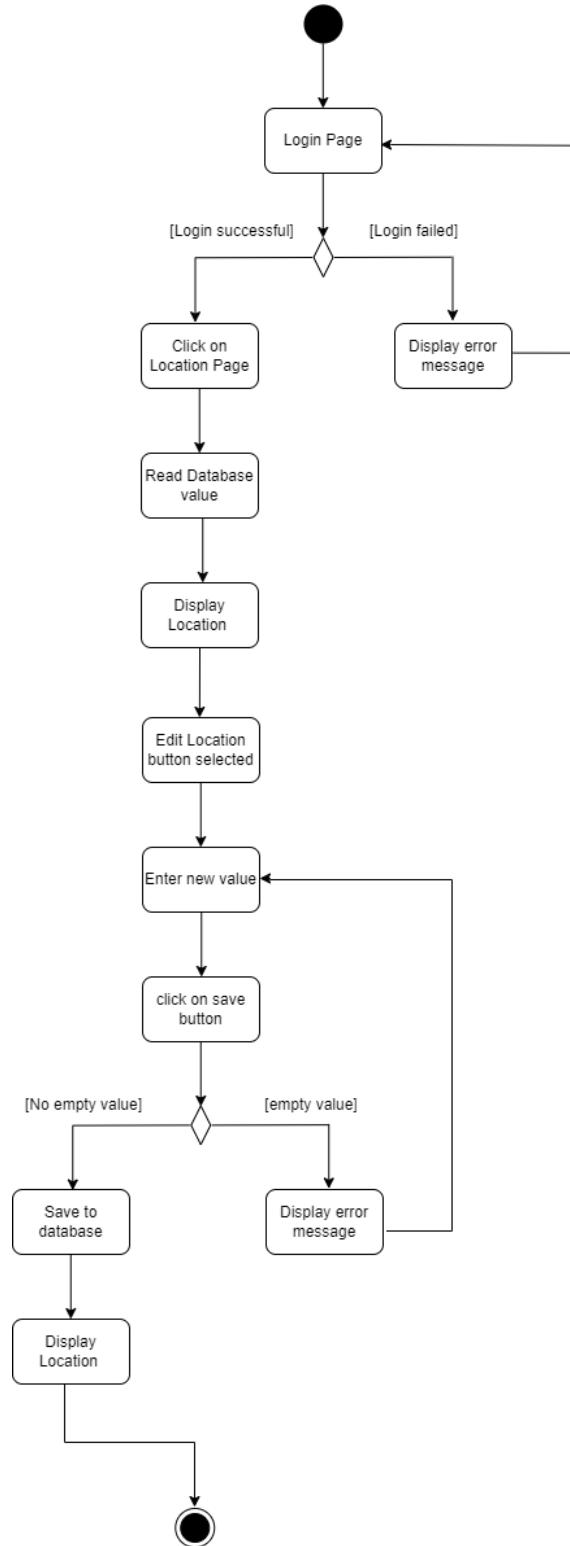
#### **9.2.4 Component 4**

This component lets the admin modify the existing entries of the food aid location.



**Figure 9.7: Component Diagram of Edit Location**

#### 9.2.4.1 Activity Diagram



**Figure 9.8: Activity Diagram of Edit Location**

#### **9.2.4.2 Pseudocode**

"View Location" button selected.

```

Select * from Location

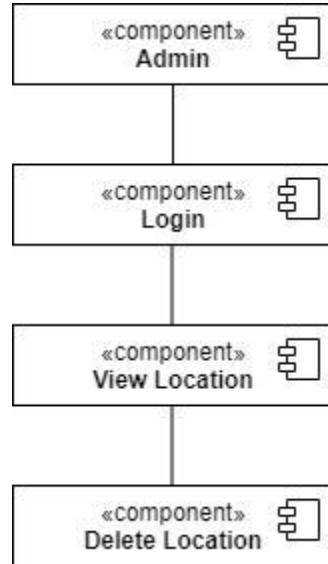
Location_ID.String = Location_ID
Location_UnitNo.String = Location_UnitNo
Location_AddressLine1.String = Location_AddressLine1
Location_AddressLine2.String = Location_AddressLine2
Location_Postcode.Integer = Location_Postcode
Location_City.String = Location_City
Location_State.String = Location_State
Location_PIC_Name.String = Location_PIC_Name
Location_PIC_PhoneNo.String = Location_PIC_PhoneNo

If
    Location.Location_ID clicked
Then
    Session.Location_ID = Location.Location_ID.String
    If
        EditLocation.Button clicked
    Then
        If
            Location_UnitNo.Text != String.Empty And
            Location_AddressLine1.Text != String.Empty And
            Location_Postcode.Text != String.Empty And
            Location_City.Text != String.Empty And
            Location_State.Text != String.Empty And
            Location_PIC_Name.Text != String.Empty And
            Location_PIC_PhoneNo.Text != String.Empty
        Then
            Update (Location_UnitNo.Text, Location_AddressLine1.Text,
            Location_AddressLine2.Text, Location_Postcode.Text, Location_City.Text,
            Location_State.Text, Location_PIC_Name.Text, Location_PIC_PhoneNo.Text)
            where (Session.Location_ID = Location.Location_ID)
        Else
            FailureText = "Value(s) required."
        End If
    End If
End If

```

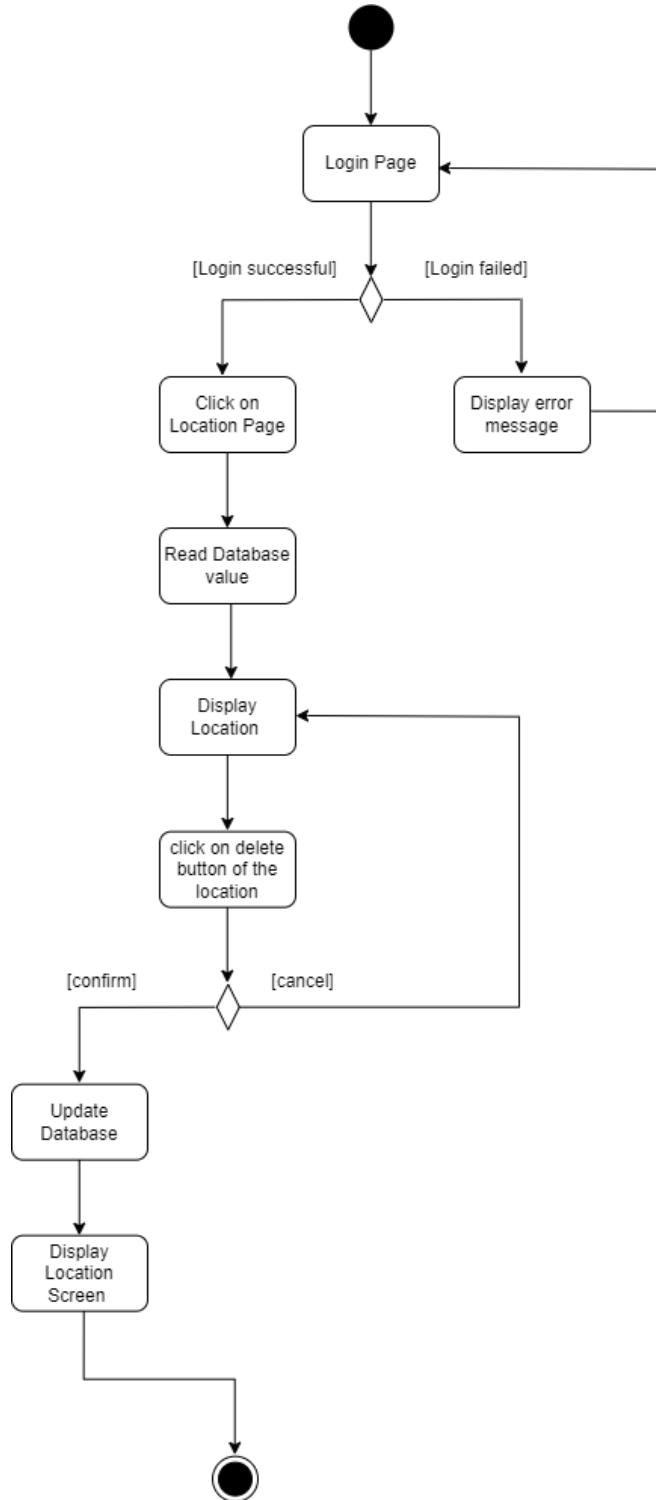
### 9.2.5 Component 5

This component lets the admin remove the existing entries of the food aid location.



**Figure 9.9: Component Diagram of Delete Location**

### 9.2.5.1 Activity Diagram



**Figure 9.10: Activity Diagram of Delete Location**

### 9.2.5.2 Pseudocode

"View Location" button selected.

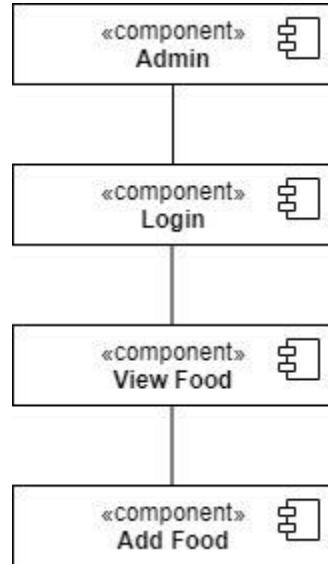
```
Select * from Location

Location_ID.String = Location_ID
Location_UnitNo.String = Location_UnitNo
Location_AddressLine1.String = Location_AddressLine1
Location_AddressLine2.String = Location_AddressLine2
Location_Postcode.Integer = Location_Postcode
Location_City.String = Location_City
Location_State.String = Location_State
Location_PIC_Name.String = Location_PIC_Name
Location_PIC_PhoneNo.String = Location_PIC_PhoneNo

If
  Location.Location_ID clicked
Then
  Session.Location_ID = Location.Location_ID
  If
    RemoveLocation.Button clicked
  Then
    Session.DialoguePrompt("Do you want to remove the entry?")
    If
      Session.DialoguePrompt.Choice(Y)
    Then
      Delete from Location where (Location.Location_ID =
Session.Location_ID)
    End If
  End If
End If
```

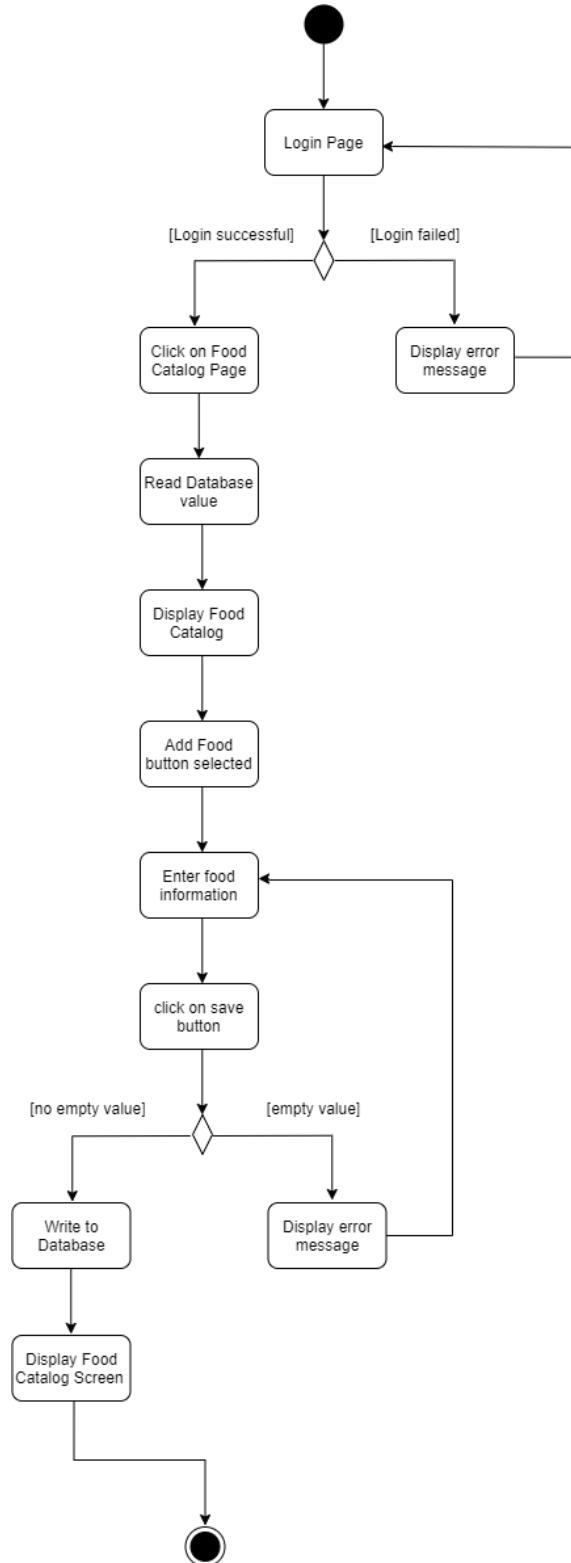
### 9.2.6 Component 6

This component lets the admin add new food entries into the Food table.



**Figure 9.11: Component Diagram of Add Food**

### 9.2.6.1 Activity Diagram



**Figure 9.12: Activity Diagram of Add Food**

### 9.2.6.2 Pseudocode

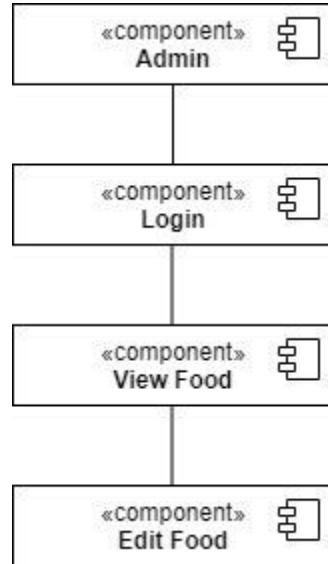
"View Food" button selected.

```
Select * from Food

Food_ID.String = Food_ID
Food_Category.String = Food_Category
Food_Name.String = Food_Name
Food_Quantity.Integer = Food_Quantity
Food.Admin_ID = Session.Admin_ID.String
If
    AddFood.Button clicked
Then
    If
        Food_Category.Text != String.Empty And
        Food_Quantity.Text != String.Empty And
        Food_Name.Text != String.Empty And
        User_ID.Text != String.Empty
    Then
        Insert Into Food(Food_ID, Food_Category, Food_Name, Food_Status,
User_ID, Admin_ID)
        Values ((Food_ID.size + 1), Food_Category.Text, Food_Name.Text,
Food_Quantity.Text)
    Else
        FailureText = "Value(s) required."
    End If
End If
```

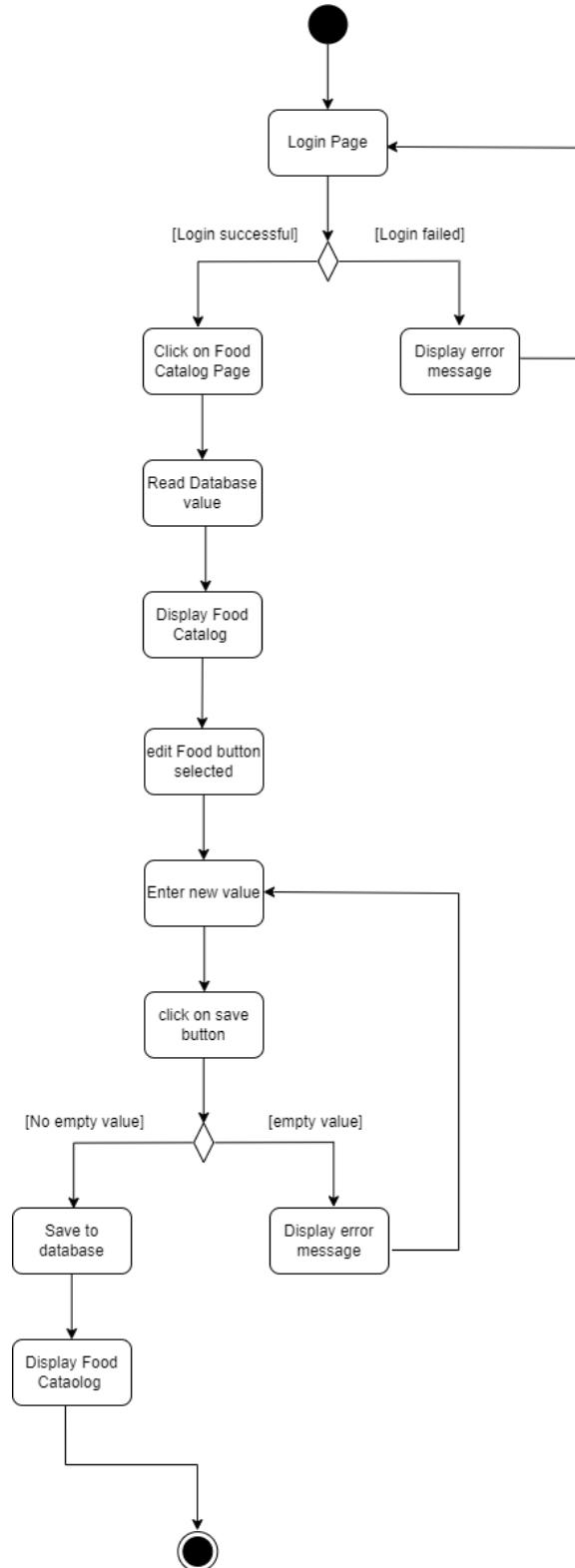
### 9.2.7 Component 7

This component lets the admin modify the existing entries of the Food table.



**Figure 9.13: Component Diagram of Edit Food**

### 9.2.7.1 Activity Diagram



**Figure 9.14: Activity Diagram of Edit Food**

### 9.2.7.2 Pseudocode

"View Food" button selected.

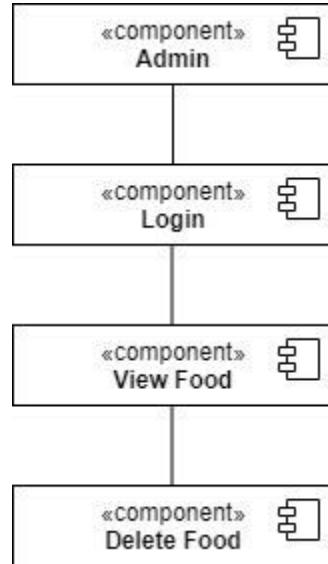
```
Select * from Food

Food_ID.String = Food_ID
Food_Category.String = Food_Category
Food_Name.String = Food_Name
Food_Quantity.Integer = Food_Quantity
User_ID.String = User_ID
Admin_ID.String = Admin_ID

If
  Food.Food_ID clicked
Then
  Session.Food_ID = Food.Food_ID.String
  If
    EditFood.Button clicked
  Then
    If
      Food_Category.Text != String.Empty And
      Food_Name.Text != String.Empty And
      Food_Quantity.Text != String.Empty And
      Food_Status.Text != String.Empty And
      User_ID.Text != String.Empty And
      Admin_ID.Text != String.Empty
    Then
      Update (Food_Category.Text, Food_Name.Text, Food_Quantity.Text,
Food_Status.Text, User_ID.Text, Admin_ID.Text) where (Session.Food_ID
= Food.Food_ID)
    Else
      FailureText = "Value(s) required."
    End If
  End If
End If
```

### 9.2.8 Component 8

This component lets the admin remove the selected entries from the Food table.



**Figure 9.15: Component Diagram of Delete Food**

### 9.2.8.1 Activity Diagram

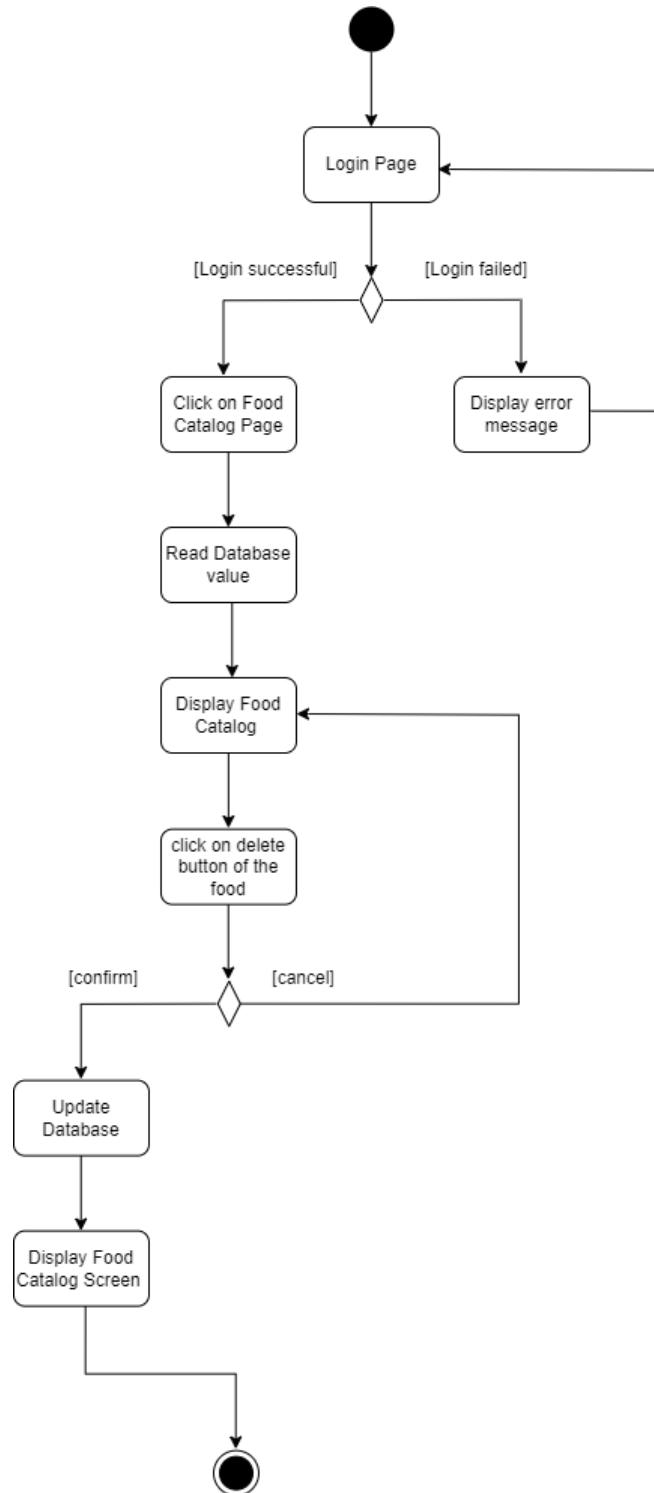


Figure 9.16: Activity Diagram of Delete Food

### 9.2.8.2 Pseudocode

"View Food" button selected.

```
Select * from Food

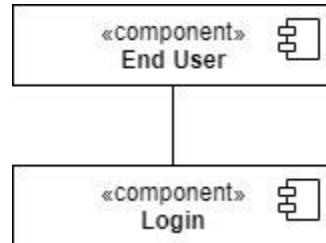
Food_ID.String = Food_ID
Food_Category.String = Food_Category
Food_Name.String = Food_Name
Food_Quantity.Integer = Food_Quantity
User_ID.String = User_ID
Admin_ID.String = Admin_ID

If
  Food.Food_ID clicked
Then
  Session.Food_ID = Food.Food_ID
  If
    RemoveLocation.Button clicked
  Then
    Session.DialoguePrompt("Do you want to remove the entry?")
    If
      Session.DialoguePrompt.Choice(Y)
    Then
      Delete from Food where (Food.Food_ID = Session.Food_ID)
    End If
  End If
End If
End If
```

### 9.3 End-user

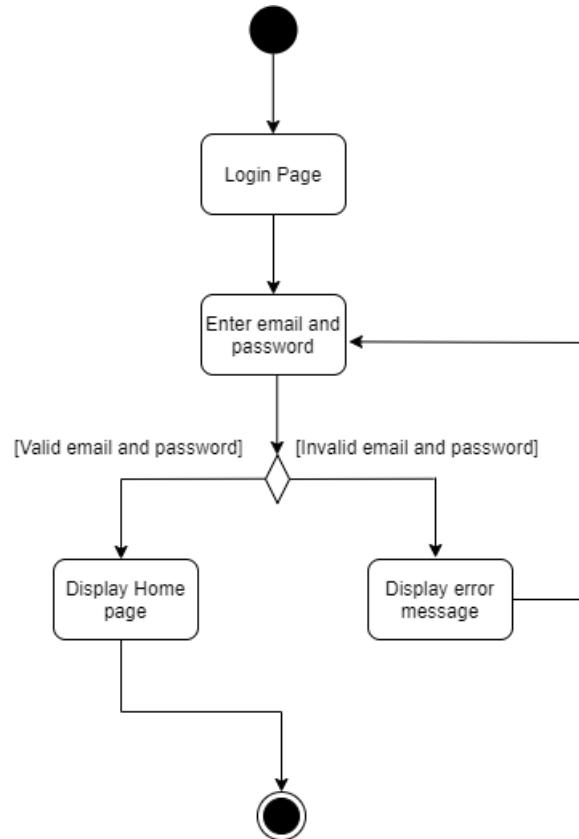
#### 9.3.1 Component 1

This component enables the End-user to log in to the system and land on the Home Page.



**Figure 9.17: Component Diagram of End-user login**

##### 9.3.1.1 Activity Diagram



**Figure 9.18: Activity Diagram of End-user login**

### 9.3.1.2 Pseudocode

“Login” button selected.

```
Select * from User where User_ID = User_ID.Text  
If  
    User_ID.Text != String.Empty And  
    User_Password.Text != String.Empty  
Then  
    If  
        User_ID.Text = User_ID And  
        User_Password.Text = User_Password  
Then  
        Session("ID") = User_ID  
        Select HomePage_Path From HomePage  
Else  
        FailureText = "Invalid credentials. Please try again."  
Else  
    FailureText = "Value(s) required."  
End If
```

### 9.3.2 Component 2

This component lets End-user with no account registered prior to sign up for a user account.

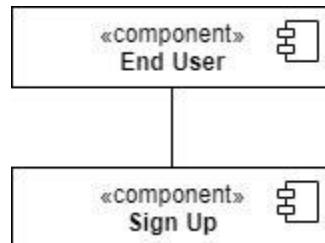
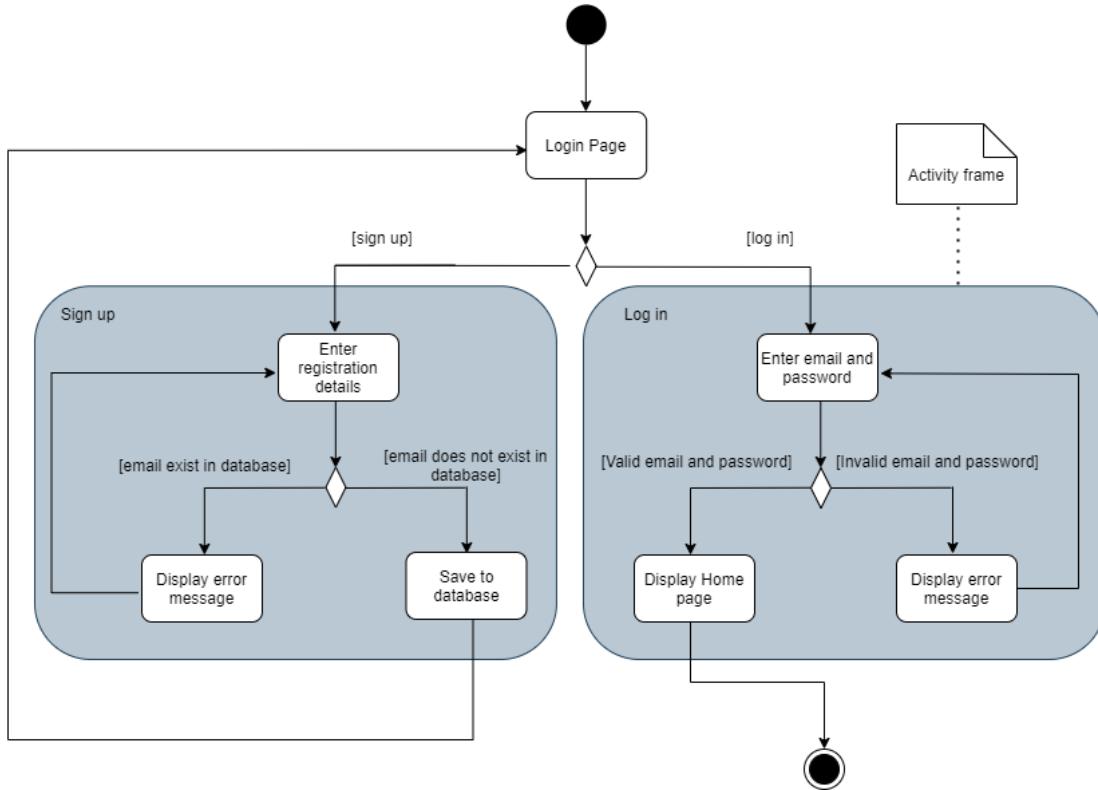


Figure 9.19: Component Diagram of End-user Sign up

### 9.3.2.1 Activity Diagram



**Figure 9.20: Activity Diagram of End-user Sign up**

### 9.3.2.2 Pseudocode

"Sign Up" button selected.

```

Select * from Login where User_ID = User_ID.Text

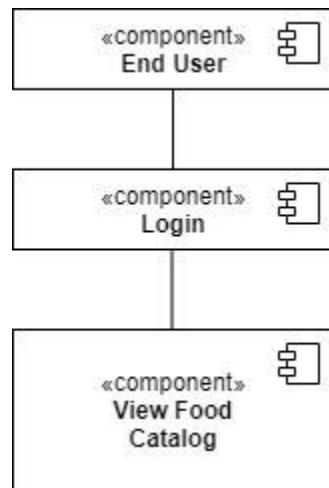
If
    User_Username.Text != String.Empty And
    User_Email.Text != String.Empty And
    User_Password.Text != String.Empty And
    User_ConfirmPassword.Text != String.Empty And
    User_FName.Text != String.Empty And
    User_LName.Text != String.Empty And
    User_PhoneNo.Text != String.Empty And
    User_AddressLine1.Text != String.Empty And
    User_AddressLine2.Text != String.Empty And
    User_PostCode.Text != String.Empty And
    User_City.Text != String.Empty And
    User_State.Text != String.Empty And
Then
    Insert Into User(User_Username, User_ConfirmPassword,
    User_AddressLine1, User_AddressLine2, User_PostCode, User_City,

```

```
User_State, User_Password, User_FName, User_LName, User_Email,  
User_PhoneNo)  
    Values (User_Username.Text, User_ConfirmPassword.Text,  
User_AddressLine1.Text, User_AddressLine2.Text, User_PostCode.Text,  
User_City.Text, User_State.Text, User_Password.Text, User_FName.Text,  
User_LName.Text, User_Email.Text, User_PhoneNo.Text)  
)  
Else  
    FailureText = "Value(s) required."  
End If
```

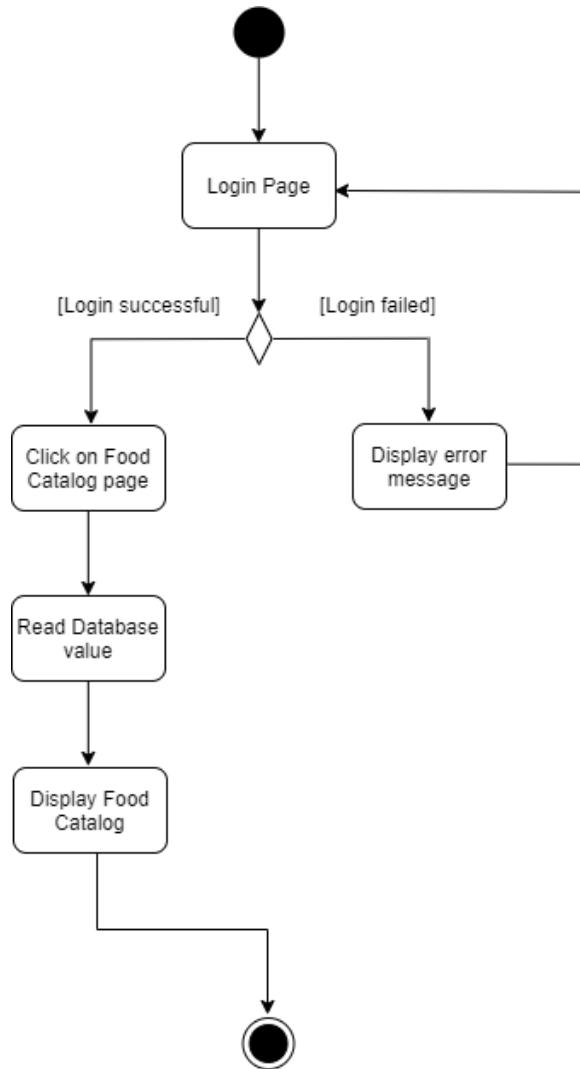
### 9.3.3 Component 3

This component lets End-user to view the complete catalogue of food available.



**Figure 9.21: Component Diagram of View Food Catalog**

### 9.3.3.1 Activity Diagram



**Figure 9.22: Activity Diagram of View Food Catalog**

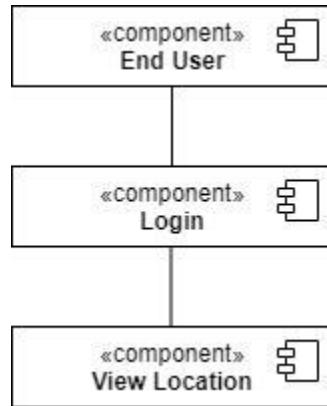
### 9.3.3.2 Pseudocode

"View Food Catalogue" button selected.

```
Select * from Food  
Food_Category.String = Food_Category  
Food_Name.String = Food_Name  
Food_Quantity.String = Food_Quantity
```

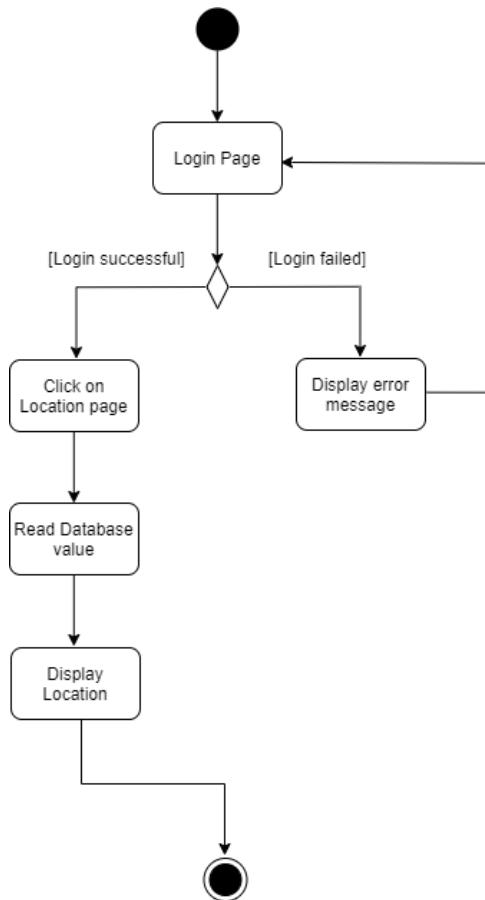
### 9.3.4 Component 4

This component lets End-user to view the list of locations of the food back around the area.



**Figure 9.23: Component Diagram of View Location**

#### **9.3.4.1 Activity Diagram**



**Figure 9.24: Activity Diagram of View Location**

#### **9.3.4.2 Pseudocode**

“View Location” button selected.

```
Select * from Location
```

```
Location_ID.String = Location_ID  
Location_No.String = Location_No  
Location_AddressLine1.String = Location_AddressLine1  
Location_AddressLine2.String = Location_AddressLine2  
Location_Postcode.Integer = Location_Postcode  
Location_City.String = Location_City  
Location_State.String = Location_State  
Location_PIC_Name.String = Location_PIC_Name  
Location_PIC_PhoneNo.String = Location_PIC_PhoneNo
```

### 9.3.5 Component 5

This component lets the End-user view their personal details stored in the user database. “Edit Profile” components nested in the “View Profile” components can be invoked if the End User desires to update their personal details.

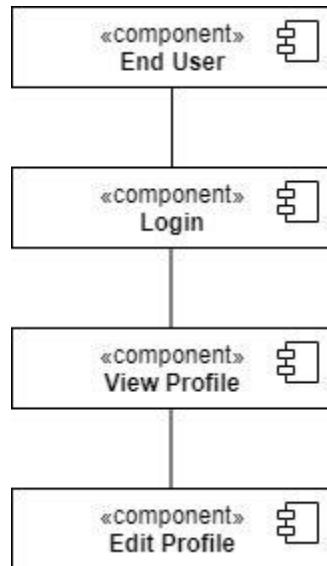
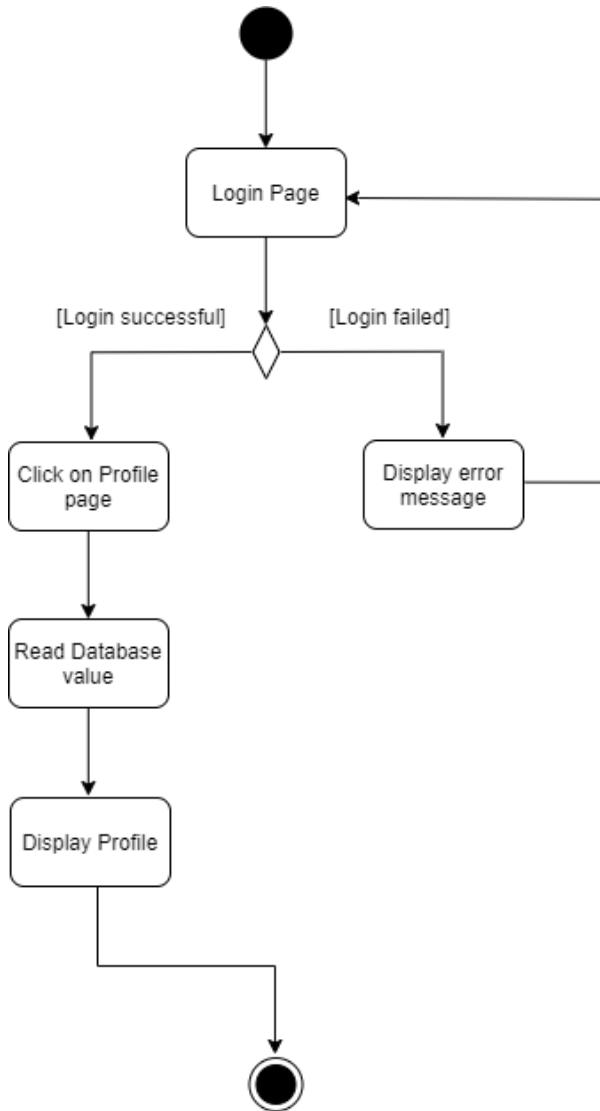
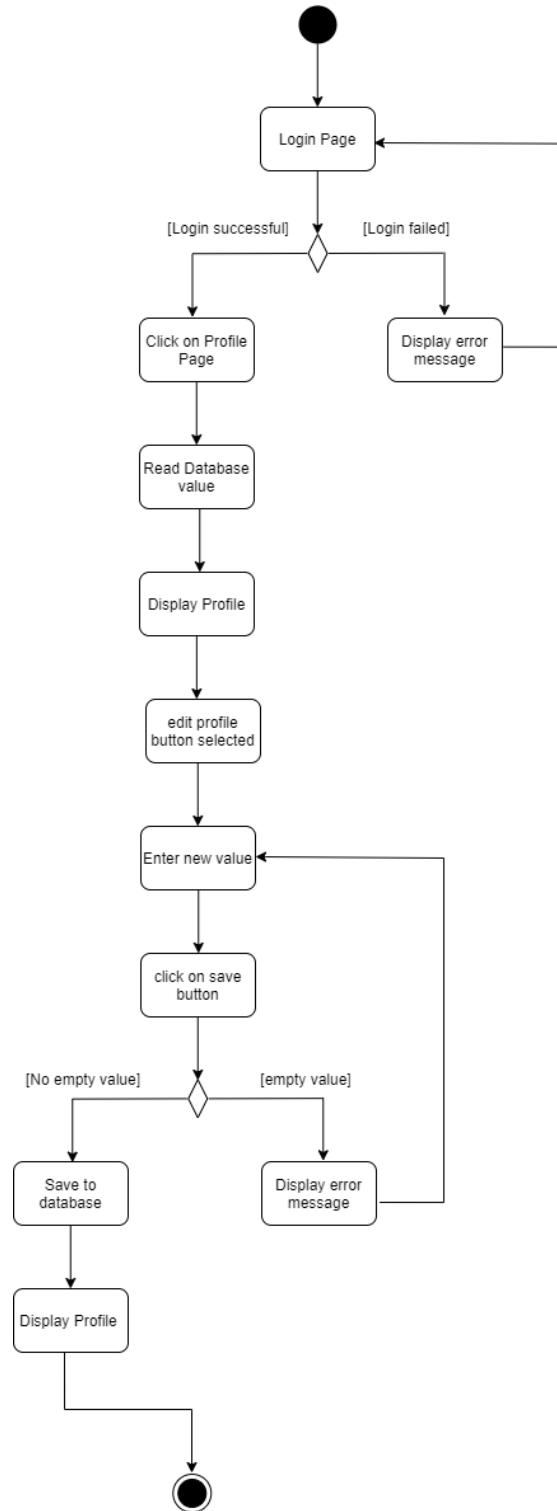


Figure 9.25: Component Diagram of View and Edit Profile

### 9.3.5.1 Activity Diagram



**Figure 9.26: Activity Diagram of View Profile**



**Figure 9.27: Activity Diagram of Edit Profile**

### 9.3.5.2 Pseudocode

“View Profile” button selected.

```

Select * from User

User_ID.String = User_ID
User_FName.String = User_FName
User_LName.String = User_LName
User_Password.String = User_Password
User_Email.String = User_Email
User_PhoneNo.String = User_PhoneNo
User_UnitNo.String = User_UnitNo
User_AddressLine1.String = User_AddressLine1
User_AddressLine2.String = User_AddressLine2
User_Postcode.Integer = User_Postcode
User_City.String = User_City
User_State.String = User_State

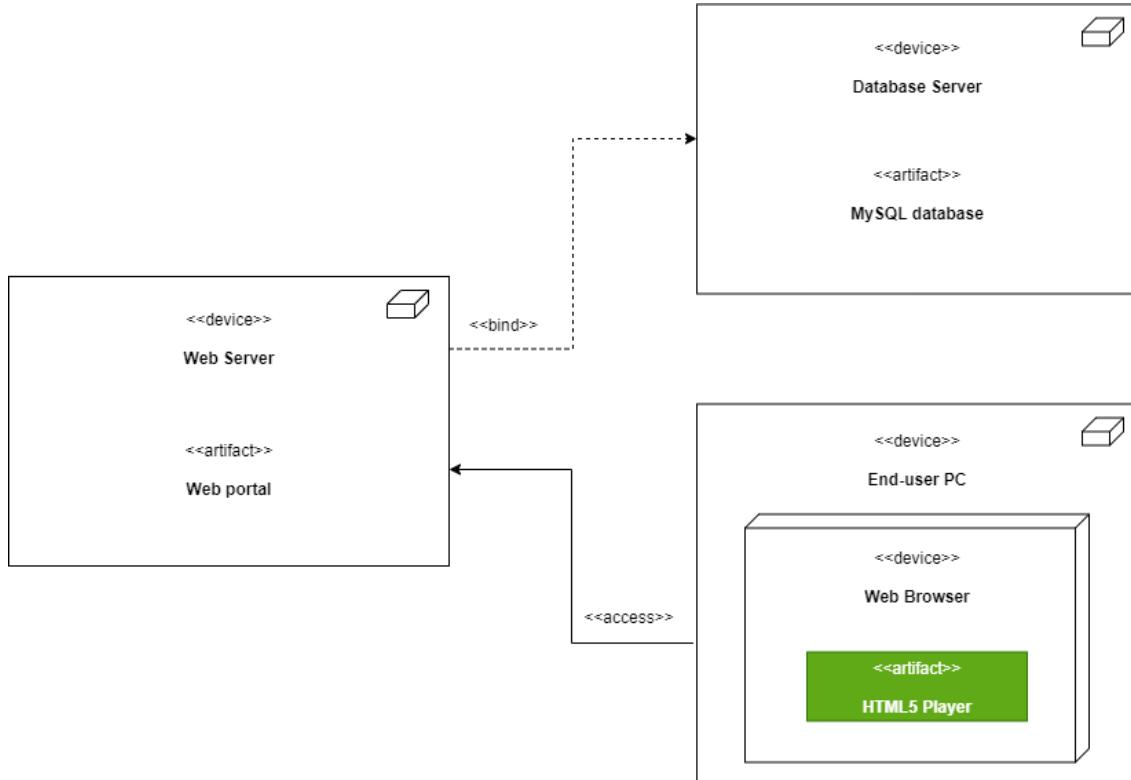
If
    EditProfile.Button clicked
Then
    User_FName.Text = User_FName And
    User_LName.Text = User_LName And
    User_Password.Text = User_Password And
    User_Email.Text = User_Email And
    User_PhoneNo.Text = User_PhoneNo And
    User_UnitNo.Text = User_UnitNo And
    User_AddressLine1.Text = User_AddressLine1 And
    User_AddressLine2.Text = User_AddressLine2 And
    User_Postcode.Text = User_Postcode And
    User_City.Text = User_City And
    User_State.Text = User_State

    If
        User_Password.Text != String.Empty And
        User_FName.Text != String.Empty And
        User_LName.Text != String.Empty And
        User_Email.Text != String.Empty And
        User_PhoneNo.Text != String.Empty
    Then
        Update (User_Password.Text, User_FName.Text, User_LName.Text,
        User_Email.Text, User_PhoneNo.Text, User_UnitNo.Text,
        User_AddressLine1.Text, User_AddressLine2.Text, User_Postcode.Text,
        User_City.Text) where (User_ID.String = User_ID)
    Else
        FailureText = “Value(s) required.”
    End
End If
If
```

## Chapter 10: Deployment Design

### 10.1 Deployment diagram

This section includes a deployment diagram which visualize the execution architecture of Help@Cyberjaya, including nodes such as hardware or software execution environments.



**Figure 10.1: Deployment Diagram**

## Chapter 11: Test Case

### 11.1 Test Case (Admin)

#### 11.1.1 login successful

<b>Test Scenario</b>	Login-1	<b>Test Case ID</b>	Login-1A
<b>Test Case Description</b>	Login- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	A valid admin account	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:41 PM]: Launch successful
2.	Enter correct Username & Password, hit login	username: 123 Password:12345	Login success, go to Help@Cyberjaya home page	Login success, go to Help@Cyberjaya home page	Microsoft Edge	Pass	[Tam 21/11/2021 8:41 PM]: Login Successful

	button						
--	--------	--	--	--	--	--	--

### **11.1.2 login failed**

<b>Test Scenario</b>	Login-1	<b>Test Case ID</b>	Login-1B
<b>Test Case Description</b>	Login- Negative test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	N/A	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:43 PM]: Launch successful
2.	Enter valid Username & wrong Password, hit login button	username: 123 Password:0	wrong password or username	wrong password or username	Microsoft Edge	Pass	[Tam 21/11/2021 8:45 PM]: Invalid login, attempt stopped
3.	Enter invalid	username: 0	wrong	wrong	Microsoft	Pass	[Tam 21/11/2021]

Software Requirements Specification for Help@Cyberjaya Web Application

	Username & Password, hit login button	Password:0	password or username	password or username	Edge		8:46 PM]: Invalid login, attempt stopped
<b>4.</b>	Enter empty value	username: 123 Password:	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 8:46 PM]: Invalid login, attempt stopped

**11.1.3 Establish report**

<b>Test Scenario</b>	EstablishReport-1	<b>Test Case ID</b>	EstablishReport-1A
<b>Test Case Description</b>	EstablishReport-Positive test case	<b>Test Priority</b>	Moderate
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
<b>1.</b>	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:46 PM]: Launch successful

Software Requirements Specification for Help@Cyberjaya Web Application

<b>2.</b>	Go to Report page	click on Report at the header	Report page	Report page	Microsoft Edge	Pass	[Tam 21/11/2021 8:47 PM]: Report generated successful

**11.1.4 add location successful**

<b>Test Scenario</b>	AddLocation-1	<b>Test Case ID</b>	AddLocation-1A
<b>Test Case Description</b>	AddLocation- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
<b>1.</b>	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:49 PM]: Launch successful
<b>2.</b>	Go to Location	click on Location on the header	Location page	Location page	Microsoft Edge	Pass	[Tam 21/11/2021 8:49 PM]: Location page

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	page						shown successful
<b>3.</b>	Click add location button, insert new location details	Location Name: Family Mart Location Address Line 1: Dpulze, Lingkaran Cyber Point Timur, Cyb Location Address Line 2: 4354345 Location Postcode: 63000 Location City: Cyberjaya Location State: Selangor Location_PIC_Name: Nurul Location_PIC_Phone: 01145693211	All done!	All done!	Microsoft Edge	Pass	[Tam 21/11/2021 8:50 PM]: Data added successful

**11.1.5 add location failed**

<b>Test Scenario</b>	AddLocation-1	<b>Test Case ID</b>	AddLocation-1B
<b>Test Case Description</b>	AddLocation- Negative test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments

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<b>1.</b>	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:50 PM]: Launch successful
<b>2.</b>	Go to Location page	click on Location on the header	Location page	Location page	Microsoft Edge	Pass	[Tam 21/11/2021 8:50 PM]: Location page shown successful
<b>3.</b>	Click add location button, insert new location details with empty value	Location Name: Family Mart Location Address Line 1: Location Address Line 2: Location Postcode: Location City: Location State: Location_PIC_Name: Location_PIC_Phone:	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 8:51 PM]: Invalid input, attempt stopped

***11.1.6 edit location successful***

<b>Test Scenario</b>	EditLocation-1	<b>Test Case ID</b>	EditLocation-1A
<b>Test Case Description</b>	EditLocation- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:52 PM]: Launch successful
2.	Go to Location page	click on Location on the header	Location page	Location page	Microsoft Edge	Pass	[Tam 21/11/2021 8:52 PM]: Location page shown successful
3.	Click edit button on the location, and enter new details, save	Location Name: MMU Location Address Line 1: Persiaran Multimedia Location Address Line 2: cyb Location Postcode: 63100 Location City: Cyberjaya Location State: Selangor Location_PIC_Name: Kim Location_PIC_Phone: 0126547890	All done!	All done!	Microsoft Edge	Pass	[Tam 21/11/2021 8:54 PM]: Data updated successful

### 11.1.7 edit location failed

Test Scenario	EditLocation-1	Test Case ID	EditLocation-1B
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<b>Test Case Description</b>	EditLocation- Negative test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:55 PM]: Launch successful
2.	Go to Location page	click on Location on the header	Location page	Location page	Microsoft Edge	Pass	[Tam 21/11/2021 8:55 PM]: Location page shown successful
3.	Click edit button on the location, and enter new details with empty value, save	Location Name: MMU Location Address Line 1: Persiaran Multimedia Location Address Line 2: Location Postcode: Location City: Location State: Location_PIC_Name: Location_PIC_Phone:	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 8:56 PM]: Invalid input, attempt stopped

### **11.1.8 delete location**

<b>Test Scenario</b>	DeleteLocation-1	<b>Test Case ID</b>	DeleteLocation-1A
<b>Test Case Description</b>	DeleteLocation-Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 8:57 PM]: Launch successful
2.	Go to Location page	click on Location on the header	Location page	Location page	Microsoft Edge	Pass	[Tam 21/11/2021 8:57 PM]: Location page shown successful
3.	Click delete button on the location	-	Location page updated with new	Location page updated with new data	Microsoft Edge	Pass	[Tam 21/11/2021 8:57 PM]: Data deleted successful

			data				
--	--	--	------	--	--	--	--

### ***11.1.9 add food successful***

<b>Test Scenario</b>	AddFood-1	<b>Test Case ID</b>	AddFood-1A
<b>Test Case Description</b>	AddFood- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:00 PM]: Launch successful
2.	Go to Food Catalog page	click on Food Catalog on the header	Food Catalog page	Food Catalog page	Microsoft Edge	Pass	[Tam 21/11/2021 9:00 PM]: Food page shown successful
3.	Click add food button,	Food Name: QingChong Food Category: Vegetable	All done!	All done!	Microsoft Edge	Pass	[Tam 21/11/2021 9:01 PM]: Data

	Insert new food details	Food Quantity: 99					added successful
--	-------------------------	-------------------	--	--	--	--	------------------

#### ***11.1.10 add food failed***

<b>Test Scenario</b>	AddFood-1	<b>Test Case ID</b>	AddFood-1B
<b>Test Case Description</b>	AddFood- Negative test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:02 PM]: Launch successful
2.	Go to Food Catalog page	click on Food Catalog on the header	Food Catalog page	Food Catalog page	Microsoft Edge	Pass	[Tam 21/11/2021 9:02 PM]: Food page shown successful
3.	Click add food	Food Name: Food Category: Vegetable	Please fill in all	Please fill in	Microsoft	Pass	[Tam 21/11/2021 9:02 PM]: Invalid

	button, insert new food details with empty value, save	Food Quantity: 99	fields!	all fields!	Edge		input, attempt stopped
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#### ***11.1.11 edit food successful***

Test Scenario	EditFood-1	Test Case ID	EditFood-1A
Test Case Description	EditFood- Positive test case	Test Priority	High
Pre-Requisite	log in successfully	Post-Requisite	N/A

Test Execution Steps:							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:02 PM]: Launch successful
2.	Go to Food Catalog page	click on Food Catalog on the header	Food Catalog page	Food Catalog page	Microsoft Edge	Pass	[Tam 21/11/2021 9:03 PM]: Food page shown

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							successful
<b>3.</b>	Click edit button on the food, and enter new details, save	Food Name: Spring Onion Food Category: Vegetable Food Quantity: 99	All done!	All done!	Microsoft Edge	Pass	[Tam 21/11/2021 9:03 PM]: Data updated successful

***11.1.12 edit food failed***

Test Scenario	EditFood-1	Test Case ID	EditFood-1B
Test Case Description	EditFood- Negative test case	Test Priority	High
Pre-Requisite	log in successfully	Post-Requisite	N/A

Test Execution Steps:							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
<b>1.</b>	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:04 PM]: Launch successful

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<b>2.</b>	Go to Food Catalog page	click on Food Catalog on the header	Food Catalog page	Food Catalog page	Microsoft Edge	Pass	[Tam 21/11/2021 9:04 PM]: Food page shown successful
<b>3.</b>	Click edit button on the food, and enter new details with empty value, save	Food Name: Food Category: Vegetable Food Quantity: 99	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 9:04 PM]: Invalid input, attempt stopped

**11.1.13 delete food**

<b>Test Scenario</b>	DeleteFood-1	<b>Test Case ID</b>	DeleteFood-1A
<b>Test Case Description</b>	DeleteFood- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments

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<b>1.</b>	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:05 PM]: Launch successful
<b>2.</b>	Go to Food Catalog page	click on Food Catalog on the header	Food Catalog page	Food Catalog page	Microsoft Edge	Pass	[Tam 21/11/2021 9:05 PM]: Food page shown successful
<b>3.</b>	Click delete button on the food	-	Food Catalog page updated with new data	Food Catalog page updated with new data	Microsoft Edge	Pass	[Tam 21/11/2021 9:05 PM]: Data deleted successful

## 11.2 Test Case (End-user)

### 11.2.1 login successful

<b>Test Scenario ID</b>	Login-2	<b>Test Case ID</b>	Login-2A
<b>Test Case Description</b>	Login- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	A valid user account	<b>Post-Requisite</b>	N/A

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<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login Page	Login Page	Microsoft Edge	Pass	[Tam 21/11/2021 9:06 PM]: Login Successful
2.	Enter correct Username & Password, hit login button	username: 1234 Password:12345	Login success, go to Help@Cyberjaya home page	Login success, go to Help@Cyberjaya home page	Microsoft Edge	Pass	[Tam 21/11/2021 9:06 PM]: Login Successful

**11.2.2 login failed**

Test Scenario ID	Login-2	Test Case ID	Login-2B
Test Case Description	Login- Negative test case	Test Priority	High
Pre-Requisite	N/A	Post-Requisite	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:07 PM]: Launch successful
2.	Enter valid Username & wrong Password, hit login button	username: 1234 Password:0	wrong password or username	wrong password or username	Microsoft Edge	Pass	[Tam 21/11/2021 9:07 PM]: Invalid login, attempt stopped
3.	Enter invalid Username & Password, hit login button	username: 0 Password:0	wrong password or username	wrong password or username	Microsoft Edge	Pass	[Tam 21/11/2021 9:07 PM]: Invalid login, attempt stopped
4.	Enter empty value	username: 1234 Password:	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 9:07 PM]: Invalid login, attempt stopped

### **11.2.3 Sign up successful**

<b>Test Scenario ID</b>	SignUp-1	<b>Test Case ID</b>	SignUp-1A
<b>Test Case Description</b>	SignUp- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	N/A	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login Page	Login Page	Microsoft Edge	Pass	[Tam 21/11/2021 9:10 PM]: Login Successful
2.	Enter register details	Username: 123 Email address:janji temu.online@epf.gov.my Password: 1234 First name: TEST Last name: TEsTSTS Phone number:0129350714 Address Line 1: Uptown xxx, 303A, Level3A, 1, Jalan SS 21 Address Line 2: : Uptown 1, 303A, Level3A	Register successful, go to Login page	Register successful, go to Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:10 PM]: Login Successful

		Postcode: 47400 City: Petaling Jaya State :Selangor					
--	--	---	--	--	--	--	--

#### 11.2.4 Sign up failed

Test Scenario ID	SignUp-1	Test Case ID	SignUp-1B
Test Case Description	SignUp- Negative test case	Test Priority	High
Pre-Requisite	N/A	Post-Requisite	N/A

Test Execution Steps:							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login Page	Login Page	Microsoft Edge	Pass	[Tam 21/11/2021 9:12 PM]: Login Successful
2.	Enter register details	Username: abcds Email address: Password: First name: Last name: Phone number:	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 9:12 PM]: Invalid input, attempt stopped

		Address Line 1: Address Line 2: Postcode: City: State:					
--	--	--	--	--	--	--	--

#### ***11.2.5 View Food Catalog***

<b>Test Scenario ID</b>	ViewFoodCatalog-1	<b>Test Case ID</b>	ViewFoodCatalog-1A
<b>Test Case Description</b>	ViewFoodCatalog- Positive test case	<b>Test Priority</b>	Moderate
<b>Pre-Requisite</b>	N/A	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:13 PM]: Launch successful
2.	Enter correct	username: 1234	Login success, go to	Login success, go to	Microsoft	Pass	[Tam 21/11/2021

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	Username & Password, hit login button	Password:12345	Help@Cyberjaya home page	Help@Cyberjaya home page	Edge		9:13 PM]: Login Successful
3.	Go to Food Catalog page	click on Food Catalog on the header	Food Catalog page	Food Catalog page	Microsoft Edge	Pass	[Tam 21/11/2021 9:13 PM]: Food page shown successful

#### 11.2.6 View Location

Test Scenario ID	ViewLocation-1	Test Case ID	ViewLocation-1A
Test Case Description	ViewLocation- Positive test case	Test Priority	Moderate
Pre-Requisite	N/A	Post-Requisite	N/A

Test Execution Steps:							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments

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<b>1.</b>	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:13 PM]: Launch successful
<b>2.</b>	Enter correct Username & Password, hit login button	username: 1234 Password:12345	Login success, go to Help@Cyberjaya home page	Login success, go to Help@Cyberjaya home page	Microsoft Edge	Pass	[Tam 21/11/2021 9:13 PM]: Login Successful
<b>3.</b>	Go to Location page	click on Location on the header	Location page	Location page	Microsoft Edge	Pass	[Tam 21/11/2021 9:13 PM]: Location page shown successful

#### **11.2.7 View Profile**

<b>Test Scenario ID</b>	ViewProfile-1	<b>Test Case ID</b>	ViewProfile-1A
<b>Test Case Description</b>	ViewProfile- Positive test case	<b>Test Priority</b>	Moderate

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<b>Pre-Requisite</b>	N/A	<b>Post-Requisite</b>	N/A
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<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:15 PM]: Launch successful
2.	Enter correct Username & Password, hit login button	username: 1234 Password:12345	Login success, go to Help@Cyberjaya home page	Login success, go to Help@Cyberjaya home page	Microsoft Edge	Pass	[Tam 21/11/2021 9:15 PM]: Login Successful
3.	Go to Profile page	click on Profile on the header	Profile page	Profile page	Microsoft Edge	Pass	[Tam 21/11/2021 9:15 PM]: Profile page shown successful

### **11.2.8 Edit Profile successful**

<b>Test Scenario ID</b>	EditProfile-1	<b>Test Case ID</b>	EditProfile-1A
<b>Test Case Description</b>	EditProfile- Positive test case	<b>Test Priority</b>	High
<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A

<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:16 PM]: Launch successful
2.	Enter correct Username & Password, hit login button	username: 1234 Password:12345	Login success, go to Help@Cyberjaya home page	Login success, go to Help@Cyberjaya home page	Microsoft Edge	Pass	[Tam 21/11/2021 9:16 PM]: Login Successful
3.	Go to	click on Profile on the header	Profile page	Profile page	Microsoft	Pass	[Tam

	Profile page				Edge		21/11/2021 9:16 PM]: Profile page shown successful
<b>4.</b>	Click edit profile button, enter new details	Username: 123 Email address:janji temu.online@epf.gov.my Password: 1234 First name: TEST Last name: TEsTSTS Phone number:0129350714 Address Line 1: Uptown 1, 303A, Level3A, 1, Jalan SS 21 Address Line 2: : Uptown 1, 303A, Level3A Postcode: 47400 City: Petaling Jaya State :Selangor	All done!	All done!	Microsoft Edge	Pass	[Tam 21/11/2021 9:16 PM]: Profile updated successful

#### ***11.2.9 Edit Profile failed***

Test Scenario ID	EditProfile-1	Test Case ID	EditProfile-1B
Test Case Description	EditProfile- Negative test case	Test Priority	High

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<b>Pre-Requisite</b>	log in successfully	<b>Post-Requisite</b>	N/A
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<b>Test Execution Steps:</b>							
No.	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1.	Launch application	http://localhost/foodbank/login.php	Login page	Login page	Microsoft Edge	Pass	[Tam 21/11/2021 9:18 PM]: Launch successful
2.	Enter correct Username & Password, hit login button	username: 1234 Password:12345	Login success, go to Help@Cyberjaya home page	Login success, go to Help@Cyberjaya home page	Microsoft Edge	Pass	[Tam 21/11/2021 9:18 PM]: Login Successful
3.	Go to Profile page	click on Profile on the header	Profile page	Profile page	Microsoft Edge	Pass	[Tam 21/11/2021 9:18 PM]: Profile page shown successful

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4.	Click edit profile button, enter new details	Username: ahshs Email address: asd Password: First name: Last name: Phone number: Address Line 1: Address Line 2: Postcode: City: State:	Please fill in all fields!	Please fill in all fields!	Microsoft Edge	Pass	[Tam 21/11/2021 9:18 PM]: Invalid, attempt stopped
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## Chapter 12: Sample Screens

### 12.1 Admin

#### 12.1.1 login

The admin has to log in to access the system.

The screenshot shows the login page for the Help@Cyberjaya website. At the top, there is a logo with the text "Help@Cyberjaya". Below the logo is a "Login" form. The form contains two input fields: "Email Address / ID" and "Password". There is also a link "Forgot password?". A green "Submit" button is at the bottom of the form. Below the form, a link "Don't have an account? Sign up now" is visible. At the bottom of the page, there is a footer with three sections: "About Us", "Contact us", and "Follow Us". The "About Us" section contains text about helping Malaysians during the darkest time, donating to the food bank, and a message about being stronger together. The "Contact us" section provides phone numbers (012-354 6789, 07-654 321) and an email address (help-cyber@gmail.com). The "Follow Us" section includes social media icons for Facebook, Twitter, and Instagram, along with a copyright notice: "© 2020 by Help@Cyberjaya".

Figure 12.1: Log in page

# Software Requirements Specification for Help@Cyberjaya Web Application

## 12.1.2 establish report

The admin can establish report.

The screenshot shows the 'Establish report' page of the Help@Cyberjaya web application. At the top, there is a navigation bar with links for 'Home', 'Food Catalog', and 'Food Bank Location'. Below the navigation bar, the page title 'Help@Cyberjaya' is displayed. A 'Summary' section is present. The main content area is divided into two sections: 'Food' and 'Location'.

**Food**

Total Food: 4

Food Available	
Food Category:	Vegetable
Name:	QingChong
Quantity:	5
Food Category:	Meat
Name:	Meat
Quantity:	5
Food Category:	Milk
Name:	HL Milk
Quantity:	3
Food Category:	Fruit
Name:	Banana
Quantity:	6

**Location**

Total Food Bank Location: 4

Food Bank Location Available	
Property Name:	MMU
Address:	Persiaran Multimedia 63100 Cyberjaya Selangor
Person-in-charge Name:	Kim
Person-in-charge Contact No.:	0126547890
Property Name:	99 SpeedMart
Address:	Biz Avenue II, Lingkaran Cyber Point Bar 63000 Cyberjaya Selangor
Person-in-charge Name:	June
Person-in-charge Contact No.:	037579635
Property Name:	7Eleven Cyber
Address:	Jalan GC 1 63000 Cyberjaya Selangor
Person-in-charge Name:	Ipin
Person-in-charge Contact No.:	034546987
Property Name:	Family Mart
Address:	Dpuize, Lingkaran Cyber Point Timur, Cyb 63000 Cyberjaya Selangor
Person-in-charge Name:	Nurul
Person-in-charge Contact No.:	01145693211

The footer section of the website includes three main links: 'About Us', 'Contact us', and 'Follow Us'.

**About Us**

We dedicated to help Malaysian during the darkest time.  
Contact us to donate to the food bank.  
Together, we are stronger.

**Contact us**

012- 354 6789  
07 -654 321  
[help-cyber@gmail.com](mailto:help-cyber@gmail.com)

**Follow Us**

[f](#) [t](#) [g](#)

© 2020 by Help@Cyberjaya

Figure 12.2: Establish report page

### 12.1.3 add location

The admin can add more location on this page by entering the details of new location.

The screenshot shows the 'Add Location' form on a web page. At the top, there is a navigation bar with links for Home, Food Catalog, Food Bank Location, and Log Out. The main content area has a title 'Add Location'. Below the title are several input fields:

- Name Of Property: A text input field labeled 'Property Name'.
- Address Line 1: A text input field labeled 'Address Line 1'.
- Address Line 2: A text input field labeled 'Address Line 2'.
- Postcode: A text input field labeled 'Postcode'.
- City: A text input field labeled 'City'.
- State: A text input field labeled 'State'.
- Person In Charge: A text input field labeled 'Person In Charge'.
- Contact No.: A text input field labeled 'Contact No.'.
- Property Image: A file upload input field with a 'Choose File' button and a message 'No file chosen'.

At the bottom of the form is a large green 'Submit' button.

**About Us**  
We dedicated to help Malaysian during the darkest time.  
Contact us to donate to the food bank.  
Together, we are stronger.

**Contact us**  
012- 354 6789  
07 -654 321  
help-cyber@gmail.com

**Follow Us**  
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**Figure 12.3: Add Location page**

#### 12.1.4 edit location

The admin can update the existing location on this page by editing the details of the location.

**Help@Cyberjaya**

Home Food Catalog Food Bank Location Log Out

### Update Location

Name Of Property  
MMU

Address Line 1  
Persiaran Multimedia

Address Line 2  
Address Line 2

Postcode  
63100

City  
Cyberjaya

State  
Selangor

Person In Charge  
Kim

Contact No.  
0126547890

Property Image  
 No file chosen

**Submit**

---

**About Us**  
We dedicated to help Malaysian during the darkest time.  
Contact us to donate to the food bank.  
Together, we are stronger.

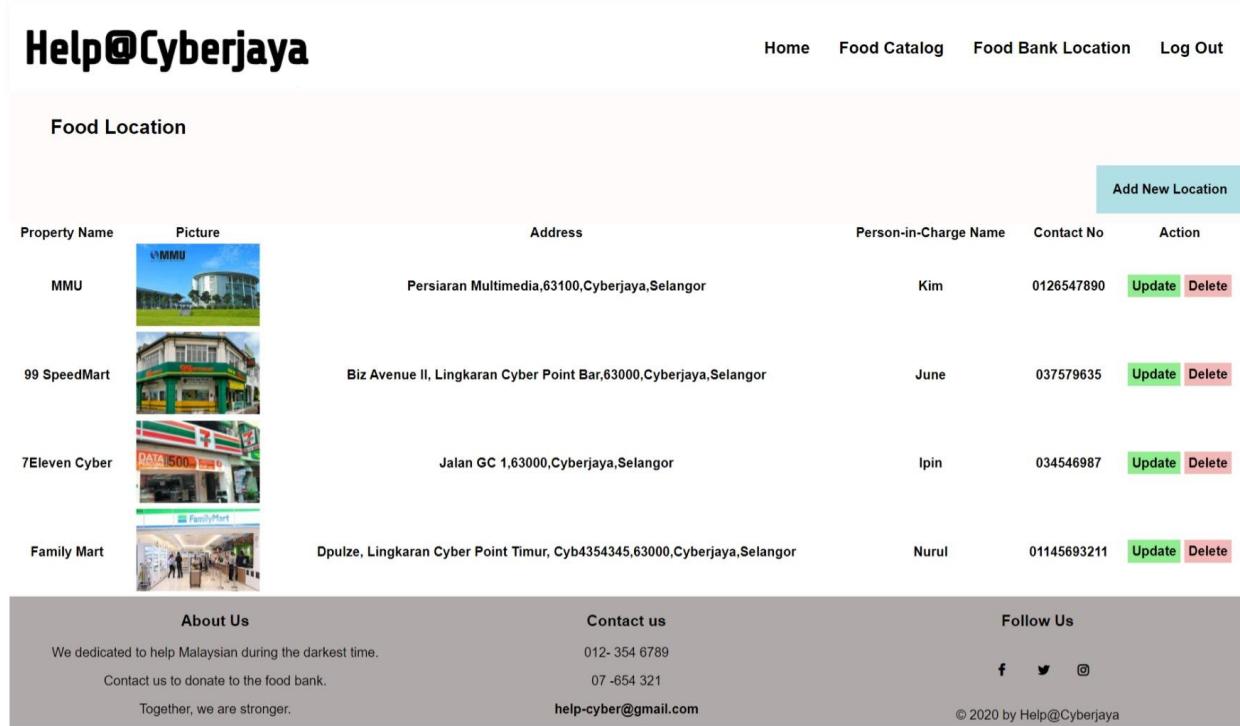
**Contact us**  
012- 354 6789  
07 -654 321  
[help-cyber@gmail.com](mailto:help-cyber@gmail.com)

**Follow Us**  
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Figure 12.4: Edit Location page

### 12.1.5 delete location

The admin can delete the existing location on this page by clicking the delete button.



The screenshot shows the 'Food Location' section of the Help@Cyberjaya web application. At the top right, there are navigation links: Home, Food Catalog, Food Bank Location, and Log Out. A green button labeled 'Add New Location' is visible. Below the header, the title 'Food Location' is displayed. The main content area contains a table with four columns: Property Name, Picture, Address, and Person-in-Charge Name. Each row represents a location with its details and two buttons: 'Update' and 'Delete'. The locations listed are MMU, 99 SpeedMart, 7Eleven Cyber, and Family Mart. The 'Address' column includes specific addresses like 'Persiaran Multimedia, 63100, Cyberjaya, Selangor' and 'Jalan GC 1, 63000, Cyberjaya, Selangor'. The 'Person-in-Charge Name' column lists Kim, June, Ipin, and Nurul respectively. The 'Action' column contains the 'Update' and 'Delete' buttons. At the bottom of the page, there are three sections: 'About Us', 'Contact us', and 'Follow Us'. The 'About Us' section contains a brief message about helping Malaysians during difficult times. The 'Contact us' section provides phone numbers (012-354 6789, 07-654 321) and an email address (help-cyber@gmail.com). The 'Follow Us' section includes social media icons for Facebook, Twitter, and Instagram. Copyright information at the bottom right states '© 2020 by Help@Cyberjaya'.

Property Name	Picture	Address	Person-in-Charge Name	Contact No	Action
MMU		Persiaran Multimedia, 63100, Cyberjaya, Selangor	Kim	0126547890	<button>Update</button> <button>Delete</button>
99 SpeedMart		Biz Avenue II, Lingkaran Cyber Point Bar, 63000, Cyberjaya, Selangor	June	037579635	<button>Update</button> <button>Delete</button>
7Eleven Cyber		Jalan GC 1, 63000, Cyberjaya, Selangor	Ipin	034546987	<button>Update</button> <button>Delete</button>
Family Mart		Dpulze, Lingkaran Cyber Point Timur, Cyb4354345, 63000, Cyberjaya, Selangor	Nurul	01145693211	<button>Update</button> <button>Delete</button>

Figure 12.5: Delete Location page

### 12.1.6 add food

The admin can add more food on this page by entering the details of new food.

The screenshot shows the 'Add Food' form on the Help@Cyberjaya website. At the top, there is a navigation bar with links for Home, Food Catalog, Food Bank Location, and Log Out. The main content area has a title 'Add Food'. Below it are four input fields: 'Food Category', 'Name', 'Quantity', and 'Food Image' (with a file upload button). A large green 'Submit' button is at the bottom. At the bottom of the page, there is a footer section with 'About Us', 'Contact us', and 'Follow Us' sections, along with copyright information.

**Add Food**

Food Category

Name

Quantity

Food Image  
 Choose File No file chosen

**Submit**

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Together, we are stronger.

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[help-cyber@gmail.com](mailto:help-cyber@gmail.com)

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**Figure 12.6: Add Food page**

### 12.1.7 edit food

The admin can add more food on this page by entering the details of new food.

Help@Cyberjaya

Home Food Catalog Food Bank Location Log Out

Update Food

Food Category  
Vegetable

Name  
QingChong

Quantity  
99

Food Image  
Choose File No file chosen

Submit

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Figure 12.7: Edit Food page

### **12.1.8 delete food**

The admin can delete the existing food on this page by clicking the delete button.

Food Category	Picture	Name	Quantity	
Vegetable		QingChong	99	<a href="#">Update</a> <a href="#">Delete</a>
Meat		Meat	5	<a href="#">Update</a> <a href="#">Delete</a>
Milk		HL Milk	3	<a href="#">Update</a> <a href="#">Delete</a>
Fruit		Banana	6	<a href="#">Update</a> <a href="#">Delete</a>

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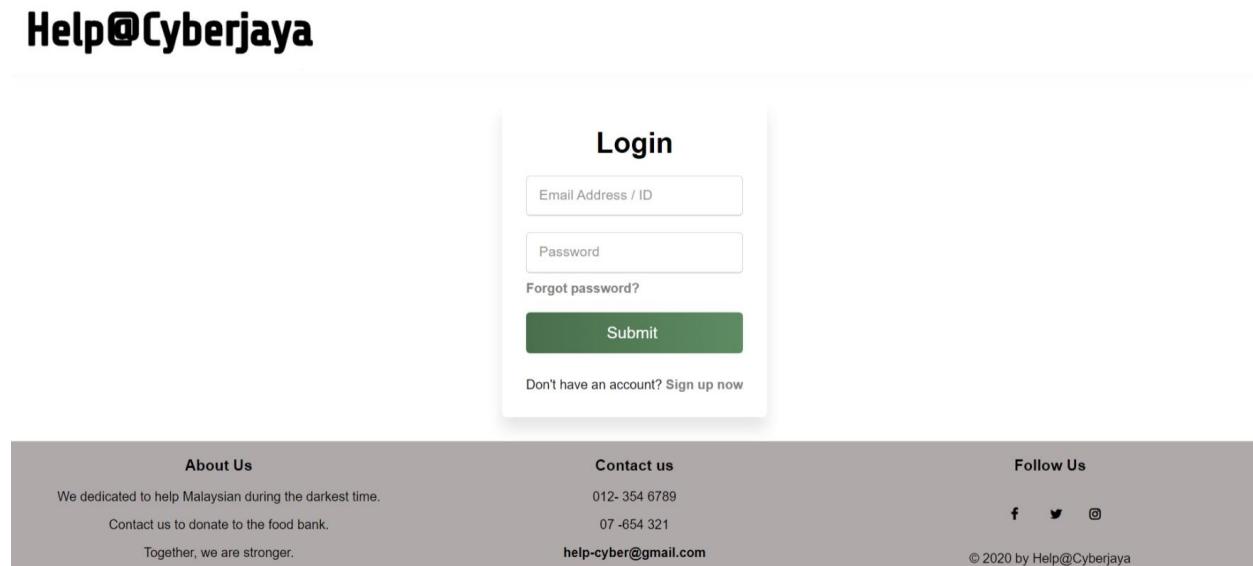
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**Figure 12.8: Delete Food page**

## 12.2 End-user

### 12.2.1 login

The end-user has to log in to access the system.



**Figure 12.9: Login page**

### 12.2.2 Sign up

If the end-user doesn't have an account, they must provide email address, password, name, phone number, and address to sign up for a new account.

## Help@Cyberjaya

The screenshot shows the 'Sign Up' page of the Help@Cyberjaya website. The page has a light gray header with the 'Help@Cyberjaya' logo. Below the header is a large white form area with a dark green 'Submit' button at the bottom. The form fields are labeled as follows:

- Username
- Email Address
- Password
- Confirm password
- First Name
- Last Name
- Phone number
- Address Line 1
- Address Line 2
- Postcode
- City
- State

Below the form is a dark gray footer section containing three columns: 'About Us', 'Contact us', and 'Follow Us'. The 'About Us' column contains text about helping Malaysians during the darkest time, donating to the food bank, and a message of strength. The 'Contact us' column lists phone numbers and an email address. The 'Follow Us' column includes social media icons for Facebook, Twitter, and Instagram, along with a copyright notice.

Figure 12.10: Sign up page

### 12.2.3 View Food Catalog

The page shows the details of the food catalog.

# Help@Cyberjaya

Home   Food Catalog   Food Bank Location   Log Out

Food Category		Picture	Name	Quantity
Food Category	Vegetable		QingChong	99
	Meat		Meat	5
	Milk		HL Milk	3
	Fruit		Banana	6

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**Follow Us**  
   
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Figure 12.11: View Food Catalog page

### 12.2.4 View Location

The page shows the details of the location of the food bank.

**Help@Cyberjaya**
[Home](#)
[Food Catalog](#)
[Food Bank Location](#)
[Log Out](#)

<b>Food Location</b>				
Property Name	Picture	Address	Person-in-Charge Name	Contact No
MMU		Persiaran Multimedia,63100,Cyberjaya,Selangor	Kim	0126547890
99 SpeedMart		Biz Avenue II, Lingkaran Cyber Point Bar,63000,Cyberjaya,Selangor	June	037579635
7Eleven Cyber		Jalan GC 1,63000,Cyberjaya,Selangor	Ipin	034546987
Family Mart		Dpulze, Lingkaran Cyber Point Timur, Cyb4354345,63000,Cyberjaya,Selangor	Nurul	01145693211

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 07-654 321  
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**Follow Us**  
  

**Figure 12.12: View Location page**

### 12.2.5 View Profile

The page shows the profile of the end-user. One can edit profile here too.

The screenshot shows the 'Profile' section of the Help@Cyberjaya website. At the top, there is a navigation bar with links for Home, Food Catalog, Food Bank Location, and Log Out. The main content area is titled 'Profile' and contains form fields for user information:

Email	janji.temu.online@epf.gov.my
First Name	TEST
Last Name	TEsTSTS
Phone Number	0129350714
Address Line 1	Uptown 1, 303A, Level 3A, 1, Jalan SS 21
Address Line 2	Uptown 1, 303A, Level 3A
Postcode	47400
City	PETALING JAYA
State	SELANGOR

A large green 'Submit' button is located at the bottom of the form.

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help-cyber@gmail.com

**Follow Us**  
[f](#) [t](#) [g](#)

Figure 12.13: View Profile page

### 12.2.6 Edit Profile

The page shows the profile of the end-user. One can edit profile here too.

The screenshot shows the 'Edit Profile' page of the Help@Cyberjaya web application. At the top, there is a navigation bar with links for Home, Food Catalog, Food Bank Location, and Log Out. The main content area is titled 'Profile'. It contains form fields for various user details:

- Email: janji.temu.online@epf.gov.my
- First Name: TEST
- Last Name: TEStSTS
- Phone Number: 0129350714
- Address Line 1: Uptown 1, 303A, Level 3A, 1, Jalan SS 21
- Address Line 2: Uptown 1, 303A, Level 3A
- Postcode: 47400
- City: PETALING JAYA
- State: SELANGOR

A large green 'Submit' button is located at the bottom of the form. Below the form, there is a footer section with three columns: 'About Us', 'Contact us', and 'Follow Us'.

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help-cyber@gmail.com

**Follow Us**  
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Figure 12.14: Edit Profile page

### 12.2.7 Register

If the end-user doesn't have an account, they must provide email address, password, name, phone number, and address to sign up for a new account.

## Help@Cyberjaya

The screenshot shows the 'Sign Up' page of the Help@Cyberjaya website. The page features a clean, minimalist design with a white background. At the top, the 'Sign Up' heading is centered in a bold, black font. Below the heading is a vertical stack of twelve input fields, each with a placeholder label. The labels are: 'Username', 'Email Address', 'Password', 'Confirm password', 'First Name', 'Last Name', 'Phone number', 'Address Line 1', 'Address Line 2', 'Postcode', 'City', and 'State'. All input fields are contained within a single vertical column. At the bottom of the form is a prominent green 'Submit' button. The overall layout is simple and functional, designed for user registration.

Figure 12.15: Register page

## Chapter 13: Conclusion

### ***13.1 Summary of results***

After many efforts and hard work, Help@Cyberjaya, a food bank website that allows the end-user to view the food bank location and the food offered by the location was developed. Although the interface is not very pleasing, it fulfills the requirements where the admin can manage the location and food, and generate reports; and the end-user can view the food and location, and manage one's profile.

This project gives the team members an opportunity to learn new things that will not be taught in the class. The teamwork, communication, and collaboration amongst the team members are very much appreciated. The experience with project management will make an important contribution to every team member in the future workplace.

### ***13.2 Problems Encounter***

Throughout the project, several problems were faced by the group members. One of the major problems is the inchoate quality of the project due to the limitation of time. A fully developed project with well-coded backend and frontend scripts would take longer than the time given, not to mention that half of the team has no experience with HTML and CSS; and all of the team has zero experience in PHP and ***JavaScript***. By the time some research and study were done on these scripting languages, there is only a little to no time left for the development of the website. To tackle this problem, the focus of the project was slanted over to the backend development of the website, as it is wished to deliver a proper functioning website with zero to moderate design on the interface.

### ***13.3 Limitations and Future Enhancement***

As mentioned in section 14.2, one of the limitations in this project is the underdevelopment of the interface design. This could be improved by creating a more aesthetically pleasing interface. Other than that, the request food functions could be included to allow the end-user to request certain food. Moreover, a notification function that will alert the user on the events such as change of food bank location, restock of food, and more could be added to make the website more dynamic.