

TSE2101

Final Report

for

Food Bank Distribution App

Version <3.0>

Group No.: 15

Student Name	Student ID
Avinash Immanuel A/L Gana Raj Immanuel	1181103370
Kishen Kumar A/L Sivalingam	1191101423
Narvenesh A/L Gevaratnam	1181103203
SHEIKH NAIMULLAH BIN SH MOHD AMINLLAH	1201301338

Date : 22/11/2021

CONTENTS

CONTENTS	2
REVISIONS	4
1 PROJECT MANAGEMENT.....	5
1.1 TEAM MEMBERS	5
1.2 PROJECT PLAN	5
2 SYSTEM OVERVIEWS.....	6
2.1 DESCRIPTION.....	6
2.2 ACTORS.....	7
2.3 ASSUMPTIONS AND DEPENDENCIES.....	8
2.4 USE CASE DIAGRAM	9
3 BASIC REQUIREMENTS.....	12
3.1 DONOR.....	12
3.2 ADMIN	13
3.3 RECIPIENT.....	15
3.4 DISTRIBUTOR.....	17

4 SPECIFIC REQUIREMENTS	18
4.1 CLASS DIAGRAMS	20
4.2 SEQUENCE DIAGRAM.....	21
5 DATA DESIGN.....	80
5.1 DATA DICTIONARY	80
6 ARCHITECTURE DESIGN.....	82
6.1 SOFTWARE ARCHITECTURE.....	82
7 INTERFACE DESIGN.....	87
7.1 MAIN SCREENS.....	87
7.2 SUBSYSTEM 1 SCREENS (DONOR).....	90
7.3 SUBSYSTEM 2 SCREENS (ADMIN).....	94
7.4 SUBSYSTEM 3 SCREENS (RECIPIENT)	109
7.5 SUBSYSTEM 4 SCREENS (DISTRIBUTOR)	118
8 COMPONENT DESIGN.....	122
8.1 MAIN COMPONENTS.....	122
9 DEPLOYMENT DESIGN.....	194
9.1 DEPLOYMENT DIAGRAM	195
10 TESTING RESULT	196
10.1 TEST CASE 1 (DONOR).....	196
10.2 TEST CASE 2 (ADMIN).....	197
10.3 TEST CASE 3 (DISTRIBUTOR)	197
10.4 TEST CASE 4 (RECIPIENT).....	198
11 PROTOTYPE SCREENS.....	199
11.1 DONOR	202
11.2 ADMIN	206
11.3 RECIPIENT.....	214
11.4 DISTRIBUTOR	226
12 CONCLUSIONS	232
12.1 SUMMARY OF RESULTS	232
12.2 PROBLEMS ENCOUNTERED.....	232
12.3 LIMITATIONS AND FUTURE ENHANCEMENTS.....	232



Revisions

Version	Primary Author(s)	Description of Version	Date Completed
Ver 3.0	Avinash Immanuel A/L Gana Raj Immanuel Kishen Kumar A/L Sivalingam Narvenesh A/L Gevaratnam SHEIKH NAIMULLAH BIN SH MOHD AMINLLAH	Information about the revision. This table does not need to be filled in whenever a document is touched, only when the version is being upgraded.	21/11/21

1 PROJECT MANAGEMENT

1.1 Team Members

Name	Actor
Avinash Immanuel A/L Gana Raj Immanuel	Donor
Kishen Kumar A/L Sivalingam	Recipient
Narvenesh A/L Gevaratnam	Distributor
Sheikh Naimullah Bin Sh Mohd Aminllah	Admin

1.2 Problem Statement

- 1.2.1** As more financial difficulties arise, especially during the COVID-19 pandemic where many employers were forced to downsize their employees to keep their company afloat, which led to many people not having sufficient income to provide their family with even basic necessities, such as food. There have been many movements and campaigns in response to aid this problem, one of them is “Bendera Putih”, a campaign intended for those who are in need of help. People that are financially needy hang white flags in front of their houses, so those who pass by these houses can offer help, usually food. For better convenience, Food Banks are another form of aid for families who are unable to purchase food themselves by giving out mostly non-perishable food for free. Through community effort, more food banks were established to show support for the underprivileged members of the community. However, the increase in demand for foods has made most food banks become inefficient and difficult to manage.

The concerns related to inventory checking, locating nearest food banks, lack of volunteers etc paved the path to the development of MyFood, a Food Bank Distribution App that allows users to communicate instantly with those in need of help, updating them with urgent food requirements, looking out for volunteers and also sharing news of charity events.

1.3 Objectives

- 1.3.1** To develop a Food Bank app that makes it seamless for those in need to receive food.
1.3.2 To build a platform that encourages those who are willing to help others in need.

1.4 Project Plan

- 1.4.1** MyFood is a software application designed to improve the current inefficient food bank system.

We referred to the Waterfall model while developing this software as it emphasizes a logical progression of steps. The model helped ensure that a certain step was fulfilled before moving onto the next, which made everything much more easy and organized. The phases in this structure are communication, planning, modeling, construction, and deployment. Since this is a small scale project, implementing this structure made deliverables much easier to define from the start.

The software's main users are the Donor, Admin, Recipient and Distributor. The roles vary among users.



Figure 0: Project Plan

2 System Overview

2.1 Description

Donor

The system will allow the donor to login by keying in the donorID and password. If the login information matches, the donor is shown the home page and certain features which they can choose to access. If a profile is selected, the donor can check information related to the donor and choose to edit them. Moreover, by selecting the donate feature, the donor can donate food or money to the respective food bank directly from the home page. Also, if the donor decides to see the donations they made to the respective food bank they can choose the view history function. Furthermore, the donor can check for foods that are urgently needed through the view food low on stock feature. Find food bank location feature, allows donors to locate the nearest food bank.

Admin

Admin need to login with their AdminID and password in order to access the system with high privileges. Upon login, admin users are present into a main menu page to navigate said privileges. Privileges included in this system are adding, deleting, editing and finding the following data: Users (such as donor, recipients, and distributor), food bank database or reports (fields included are food category, distribution location, and amount), distribution location, and food categories. To control the above data is through their own respected pages with a simple user interface.

Recipient

The system will allow the recipient to login by entering the username and password. After login success, the recipient will have access to certain features which can be displayed in the home page of the app. One of them is viewing the profile in order to check his/her personal details which will be shown in a personal detail form. Then, the recipient also has the option to edit the profile if he/she desires to correct inaccurate profile details. Not only that, the recipient also can view all the foods and the information regarding it which are available at the specific period of time. After seeing all the food details, the recipient is able to reserve the food which he/she wants to eat. If the recipient does not want the food that he/she reserved, he/she can cancel the reservation. Furthermore, additional features were built up for the recipient such as 'community feed' function where the recipient will be notified regularly with the food waste, sharing tips and more and also the 'contact us' feature where the recipient is able to get help from the administration department of the app by receiving replies for the inquiry messages that the recipient sent.

Distributor

Distributors have to login with their riderID and password in order to access the application. If the login information matches, the distributor is shown the homepage and certain features which they can choose to access. When a profile is selected, the distributor can review and modify information about the distributor. Search for nearby food bank locations feature, allows the distributor to locate the nearest foodbank. After this process, the system will notify the distributor on the nearest food bank location. The distributor can access the check status of reserved food feature to identify the availability, type and quantity of food they are assigned to deliver. The distributor can then proceed to accept the delivery by selecting the pick up food feature. During the delivery process, the distributor can check the status of their delivery by selecting the view delivery status option. After the food has been successfully delivered to the recipient, the distributor has to select the drop off food function to complete their delivery task.

2.2 Actors

Actor	Use Cases
DONOR	View profile
	Edit profile
	Donate food
	Donate money
	View history of donations
	View foods low on stock
	Find food bank locations

	Sign Up / Log In
RECIPIENT	Sign Up
	Login
	View Profile
	Edit Profile
	View Food Menu
	Reserve food
	Cancel Reservation of Food
	View Community Feed
	Acquire Assistance

DISTRIBUTOR	Sign up as rider
	Login
	Edit profile
	View profile
	Search for nearby foodbank locations
	Check status of reserved food
	Pick up food
	View delivery status
	Drop-off food
ADMIN	Login
	Add Users
	Add Food bank report
	Add Distribution locations

Add Food Categories
Delete Users
Delete Food bank report
Delete Distribution locations
Delete Food Categories
Edit Users
Edit Food bank report
Edit Distribution locations
Edit Food Categories
Find Users
Find Food bank report
Find Distribution locations
Find Food Categories

2.3 Use Case Diagram

<TO DO: Place the use case diagram here.>

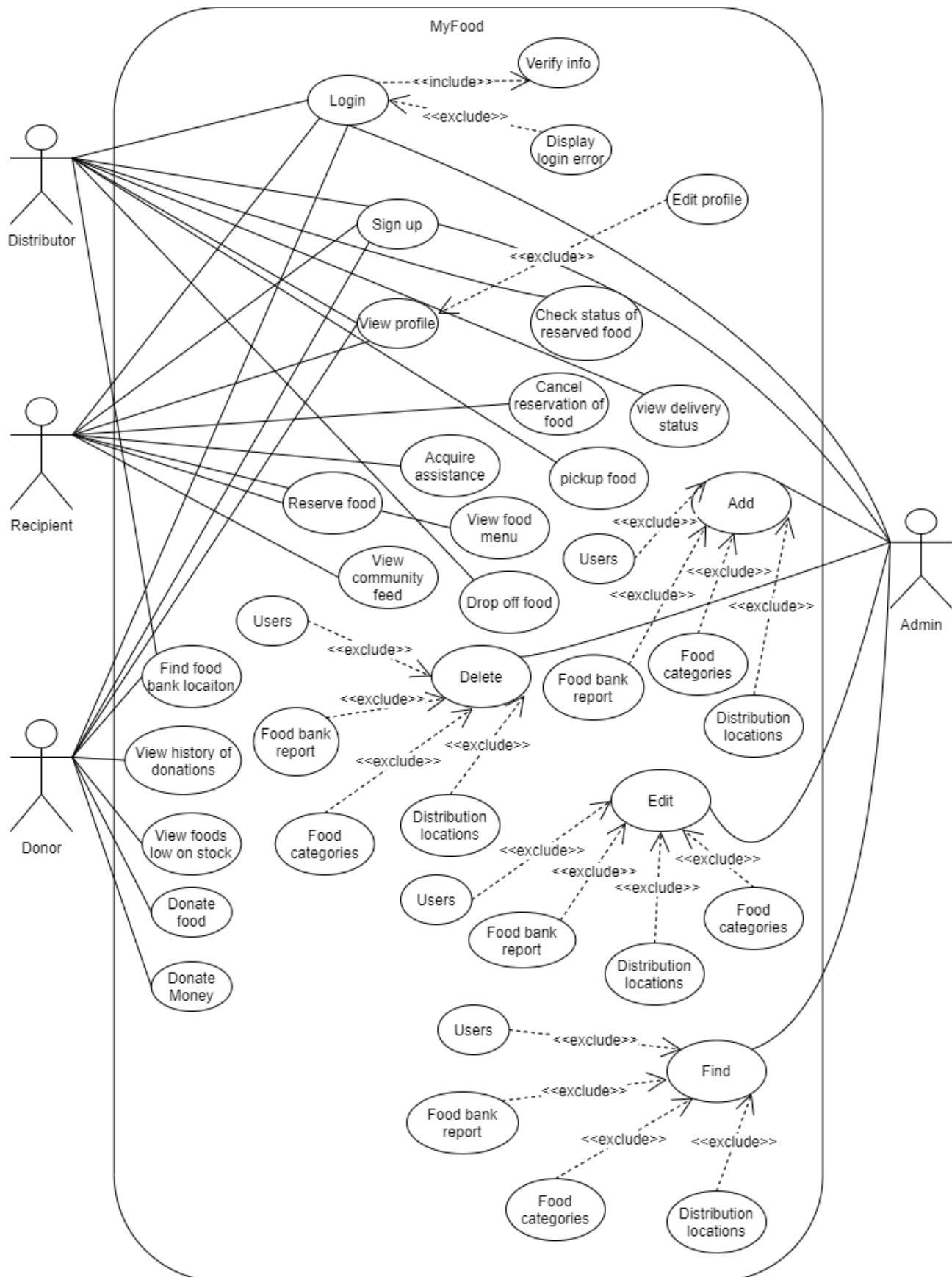


Figure 1 Use Case Diagram

3 Basic Requirements

3.1 Donor

3.1.1 Sign Up / Login

This use case allows the donor to access the app, which they will be prompted with the Sign Up / Login screen where they are required to either register if they don't have an account or login if they do with their donorID and password. If the login credentials match, the system displays the home page by which the donor is able to access the relevant functions according to the donor's role.

3.1.2 View profile

This use case allows donors to view their profile. The data is retrieved from the database and displayed to the donor. The data consists of their unique donorID, Full name, Email, Password and Mobile number, Location.

3.1.3 Edit profile

This use case allows donors to edit their profile. The data is retrieved from the database for viewing and will be updated if the donor decides to change any information listed on his profile. The information that can be edited are the unique donorID, Full name, Email, Password and Mobile number, Location.

3.1.4 Donate foods

This use case allows donors to donate food to the Food Bank. The donor is prompted a screen to select between different types of non-perishable foods and their quantity that they wish to donate. The amount of foods donated will be updated in the Menu database.

3.1.5 Donate money

This use case allows donors to donate money to the Food Bank's fund. The donor is prompted a screen to select between different presetted amounts or an amount of their preference to donate. The amount of donation will be updated in the Food Bank funds collection.

3.1.6 View history of donations

This use case allows donors to view their history of donations made. The system retrieves the donations made by the donor from the database and displays all past donations made by the donor. This can help them keep track of how much donations they have made.

3.1.7 View foods low on stock

This use case allows donors to view foods that are low on supply. The food supply data is retrieved from the database and displayed to the donor. This allows donors to see which items are urgently in need.

3.1.8 Find food bank locations

This use case allows donors to find other Food Bank locations that may be in their area of reach by comparing between the donor's and food bank's state.

3.2 Admin

3.2.1 Login

Login use case allow the admin of the website to access the website's admin controls. Admin accounts are pre-registered through the database itself by authorized back-end users only. This makes sure that only the owner of the website or any other users who are given the permission to access these controls. Login credentials are the admin's ID and password. If input is matched, Admins are prompted into the webpage's basic main menu.

3.2.2 Add Users

This use case allows the admins to add users such as donor, recipient and distributor. Despite these users being able to sign up or register through another page this add users use case might be needed if in some circumstances reported that their accounts are deleted, or forgot their password provided with verification that these circumstances happen.

3.2.3 Add Food Bank report

This use case gives the admins the ability to add food bank reports manually if there is need to. Report contains food category, distribution location, and amount.

3.2.4 Add Distribution Locations

This use case gives admins to add distribution location if there is a new established location for the food bank.

3.2.5 Add Food Categories

This use case allows admins to add new categories of food into the database which the Food Bank needed to refer to.

3.2.6 Delete Users

This use case allows the admins to delete any users due to specific reasons such as request for deletion, users that break apps policies and terms of service.

3.2.7 Delete Food Bank report

This use case gives the admins the ability to delete food bank reports manually if there is an error.

3.2.8 Delete Distribution Locations

This use case gives admins to delete distribution locations if needed.

3.2.9 Delete Food Categories

This use case allows admins to delete a category of food into the database.

3.2.10 Edit Users

This use case allows the admins to edit any users for correction purposes if there is need to.

3.2.11 Edit Food Bank report

This use case gives the admins the ability to edit food bank reports manually if there is a need for correction.

3.2.12 Edit Distribution Locations

This use case gives admins to edit distribution locations if needed.

3.2.13 Edit Food Categories

This use case allows admins to edit a category of food into the database.

3.2.14 Find Users

This use case allows the admins to find any users by using certain keywords such as ID or name to make it easier to search a specific user.

3.2.15 Find Food Bank report

This use case gives the admins the ability to find food bank reports by using keywords from the database.

3.2.16 Find Distribution Locations

This use case allows admins to find distribution locations by using keywords from the database.

3.2.17 Find Food Categories

This use case allows admins to find a category of food into the database by using keywords from the database.

3.3 Recipient

5.3.1 Sign Up / Log In

For the Login Use Case, it starts when a recipient wishes to log into the Foodbank Distribution Application System. The system requests that the recipient enter his/her username and password. Then, the recipient enters his/her username and password. The system will retrieve data from the recipient database and compare the username and password. If the information provided is correct, The system will validate the entered username and password and log the recipient into the system. However, if the recipient enters an invalid username and/or password, the system displays an error message. The recipient can choose to either return to the login system or cancel the login, at which point this use case ends.

For the Sign Up Use Case, it starts when a recipient accesses the system feature that enables him/her to create an account by entering information that is maintained in the Recipient's account database. The Recipient enters the required Recipient Account information values and requests that the system saves the entered values. The system validates the entered Recipient Account information. The values for the Recipient Account information are stored in the Recipient's account database. The system notifies the Recipient that the account has been created. However, if during Sign Up Account, the system determines that the Recipient entered invalid Recipient Account information, The system describes which entered data was invalid and presents the Recipient with suggestions for entering valid data. The system prompts the recipient to re-enter the valid information. The recipient re-enters the information and the system re-validates it. If valid information is entered, the Recipient Account Information is stored into the recipient's database. If invalid information is entered, the Entered Information is Invalid and this process will be executed again. This continues until the recipient enters valid information.

5.3.2 View Profile

This Use Case starts when the recipient selects the view profile function to view their personal details which consist of Username, First name, Last name, Birth Date, Gender, Nationality, Email, Password, Mobile number, and Home Address. System will retrieve data from the recipient database and display the data in the personal detail form.

5.3.3 Edit Profile

This use case occurs when a recipient wishes to change his/her profile information. Recipient can enter new personal details and select the save button to update. System will prompt a confirmation message, and the recipient can either select yes or no. If yes ,then the system will check the entered details which cannot be an empty value or wrong input format. If no, then the system will go back to the edit state. After checking, if there is no input error, then the system will update the record in the recipient database.

5.3.4 View Food Menu

This use case occurs when a recipient is able to view all the food that they offer and that is available for deliveries. This process also shows all of the food information related transactions such as the food name, foodbank location, Date, Range of time for the food delivery, Count of the food reservations and the remaining available for reservation.

5.3.5 Reserve food

This use case describes that a recipient is able to reserve food from all the food that is available at the specific period of time. This can be done when a recipient selects one or more food items from the available food menu. Then, System displays Foodbank Location, Food Name, Quantity, Date and range of time for the food delivery. After viewing all the information regarding the food, the recipient is able to reserve the food. After that, System stores the reservation of food in the recipient's database and sends food item information to the specific Food Bank Inventory System. A confirmation regarding the reserved food details will be displayed. If the recipient enters a wrong reservation of food, he/she will have the go back to the food menu screen.

5.3.6 Cancel Reservation of Food

This use case allows the recipient to cancel back the reservation if the recipient does not want the food. A recipient firstly chooses the record that needs to be cancelled. Then, the recipient can click the cancel reservation button and a confirmation dialog box will be shown. If the recipient confirms to cancel the reservation, he/she can click the yes button. This makes the system to delete the food information that has been reserved in the database and the specific Food Bank Inventory System also will be updated regarding this matter and a confirmation message will be displayed. If the recipient does not want to make the changes, he/she can click the no button to cancel the process.

5.3.7 View Community Feed

This use case is mainly applied to the community of users in the app. There are two sections such as community and news. For the section of the community, it is the daily announcement about food waste, sharing tips and more. Then, we can get news and information about food from Section news.

5.3.8 Acquire Assistance

This use case is often the go-to for a new recipient on a mission. It's where they go when they have a question and truly want to speak to an individual at the organization. They exist to serve the recipient with the purpose of providing the recipient with information on how they can get in touch with him/her in order to answer his/her questions. The goal of this use case is to convert by clearly and effectively presenting the method(s) of getting in touch with the food bank organization as quickly as possible. This use case can be fulfilled when the recipient fills in the details such as subject and message and submit it. Contact details of the recipient that he/she provides during registration will be attached automatically when he/she submit the message so that the individual at the organization can contact the recipient through it. Confirmation message regarding the submission of the message will be displayed.

3.4 Distributor

3.4.1 Sign up as rider

This use case allows distributors to access the app as riders in which then they will be brought about with the Sign up screen where they are required to register if they don't have an account.

3.4.2 Login

This use case allows the distributor to access the app which then will be led to the Login screen where they're required to login if they do have their riderID and password. If the login credentials are correct, the system displays the home page by which the distributor is able to access the relevant functions according to the distributor's role.

3.4.3 Edit profile

This use case allows distributors to edit their profile. The data retrieved from the database for viewing and will be updated if the distributor decides to change any information listed on his/her profile. The information that can be edited are the unique riderID, Full name, Email, Password, Mobile number and Location.

3.4.4 View profile

This use case allows distributors to view their profile. The data is retrieved from the database and displayed to the distributor. The data consists of their unique riderID, Full name, Email, Password, Mobile number and Location.

3.4.5 Search for nearby foodbank locations

This use case allows distributors to search for nearby foodbank locations by comparing between the distributor's and foodbank's location. The system then will request the distributor to turn on their GPS function on their mobile device as this is required to locate the nearest foodbank. After the system has successfully located a foodbank, it will then give the distributor the option whether to

accept or reject the delivery after the distributor has checked the status of the reserved food. During this option, There will be an estimated time of delivery where the system accepts the data received from the GPS locations of the distributor and recipient. Then, the system will calculate the estimated time to deliver the food to the recipient based on their locations.

3.4.6 Check status of reserved food

This use case allows distributors to check the status of the reserved food that is available at the specific foodbank location and period of time. The system displays Foodbank Location, Recipient Location, Food Name, Quantity, and estimated time of food delivery.

3.4.7 Pick up food

This use case allows distributors to confirm to the system that they have picked up the food from the specified foodbank location and will proceed to the delivery.

3.4.8 View delivery status

This use case allows the distributor to view their delivery status. The system will track the distributor's and recipient's location and update the delivery status from time to time to revise the estimated delivery time.

3.4.9 Food drop-off

This use case allows the distributor to confirm to the system the completion of their delivery after they have successfully delivered their food to the recipient's location.

4 Specific Requirements

4.1 Class Diagrams / ERD

<TO DO: Describe the classes and place the class diagram.>

User class

User class is used for login of the users, verifying login of the users, signing up of the users, verifying sign up of the users, acquiring assistance from the administration of the app, viewing community feed, alert notifications, and viewing delivery status of foods.

Donor class

Donor class is able to display profile, update profile, get Transaction, add transaction, get food, add food, view food low on stock, find food bank and view donation

Food Bank class

Food bank class is able to get the name of the foodbank, add the donor's money donation and donor's food donation.

Admin class

Admin class is able to manipulate the database by adding, editing, deleting and finding data of the following database; Users, Distribution Location, Food Bank Reports and Food Categories.

Recipient class

Recipient class is used for storing, displaying, updating and verifying the recipient's personal information.

Food Menu class

Food Menu class is used for displaying the food menu, updating number of reserved and available foods, reserving foods, displaying, storing and deleting reserved foods' details, canceling the food reservation and checking the status of reserved foods.

Distributor class

Distributor class is able to search nearby foodbanks, pick up food, drop off food. Furthermore, it can also store, display and update the distributor's personal information hence verify the update.

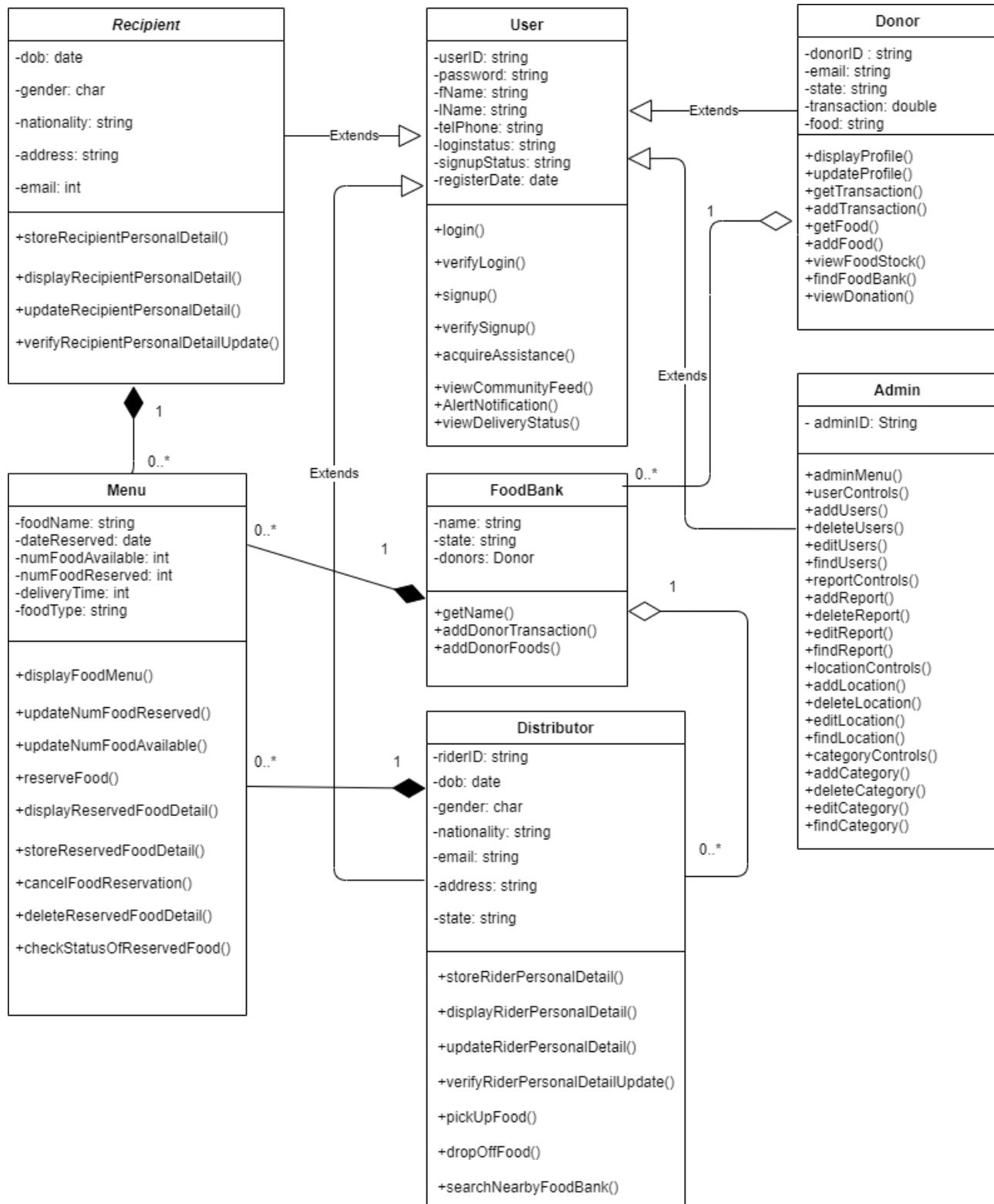


Figure 2 Class Diagram

4.2 Sequence Diagrams

4.2.1 Donor

4.2.1.1 Sign Up / Login

1. *The donor enters the required donor account information values and requests that the system saves the entered values.*
2. *The system validates the entered donor account information.*
3. *The values for the donor account information are stored in the Donor database.*
4. *The system notifies the donor that the account has been created.*
5. *If the system determines that the donor entered invalid donor account information, an error message will be displayed and the system will prompt the donor to re-enter the valid information.*
6. *The system requests the donor to enter their donorID and password.*
7. *The donor will enter their donorID and password into the system.*
8. *The system will retrieve data from the donor database and compare the donorID and password.*
9. *If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.*

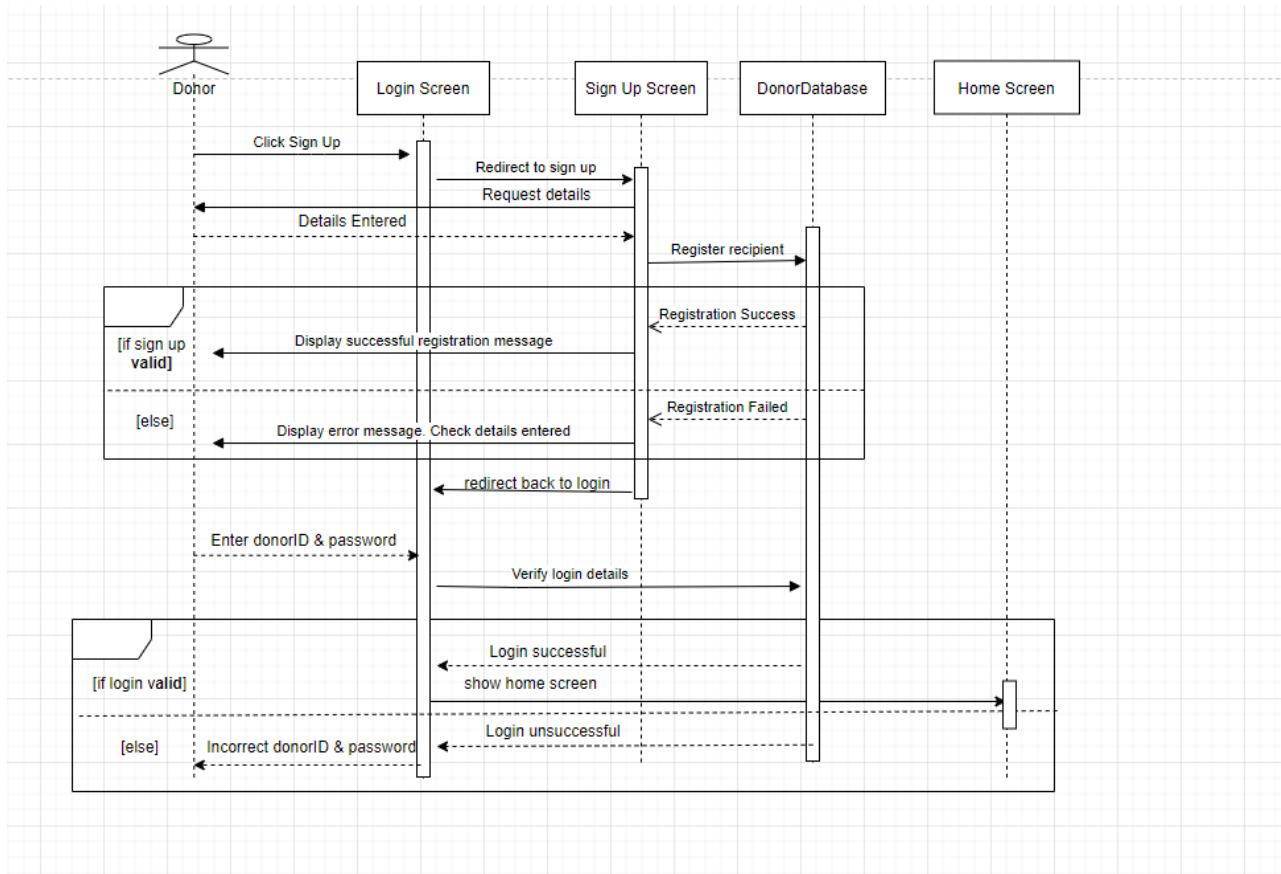


Figure 1.1 Donor's 'Sign Up / Login' sequence diagram

4.2.1.2 View Profile

1. The system requests the donor to enter their donorID and password.
2. The donor will enter their donorID and password into the system.
3. The system will retrieve data from the donor database and compare the donorID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The donor selects the 'View Profile' page to view their personal details.
6. System will retrieve data from the donor database and display the data in the personal detail form.

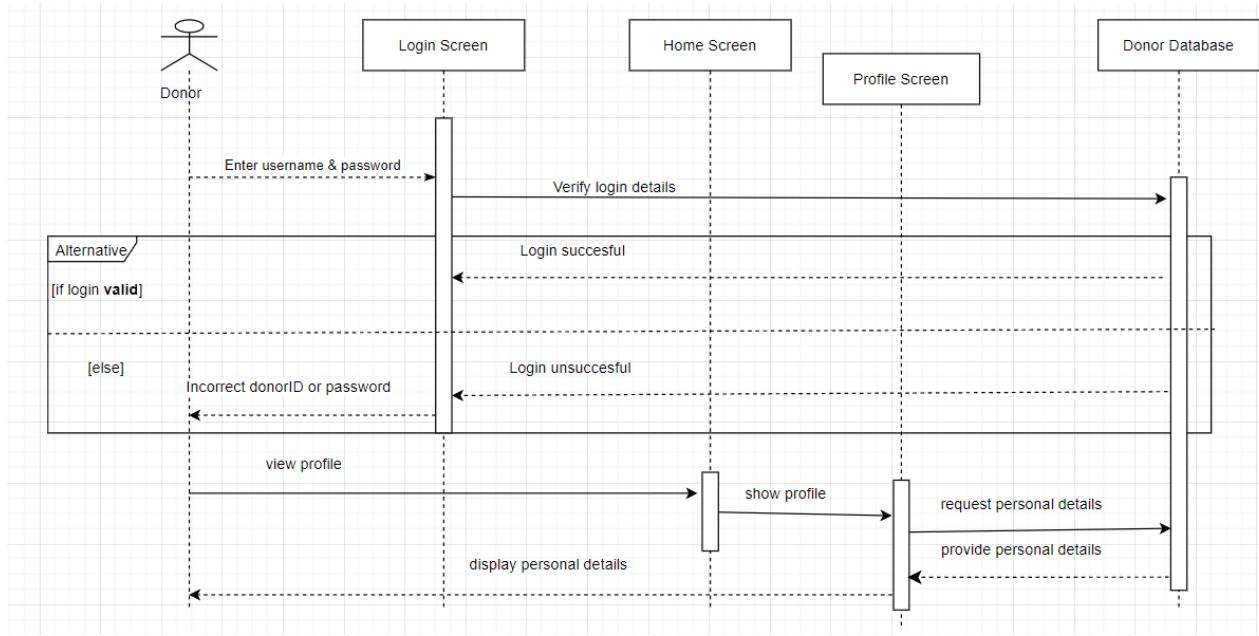


Figure 1.2 Donor's "View Profile" sequence diagram

4.2.1.3 Edit Profile

1. The system requests the donor to enter their donorID and password.
2. The donor will enter their donorID and password into the system.
3. The system will retrieve data from the donor database and compare the donorID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The donor selects the "View Profile" page to view their personal details.
6. System will retrieve data from the donor database and display the data in the personal detail form.
7. The donor later selects the 'Edit Profile' feature to update their personal details.
8. The donor can edit their personal details and select the save button once they're done to update their information.
9. System will prompt a confirmation message, and the donor can either select yes or no.

10. If the donor chooses yes ,the system confirms and updates the information in the donor's database. If the donor chooses no, then the system will go back to the edit profile state.

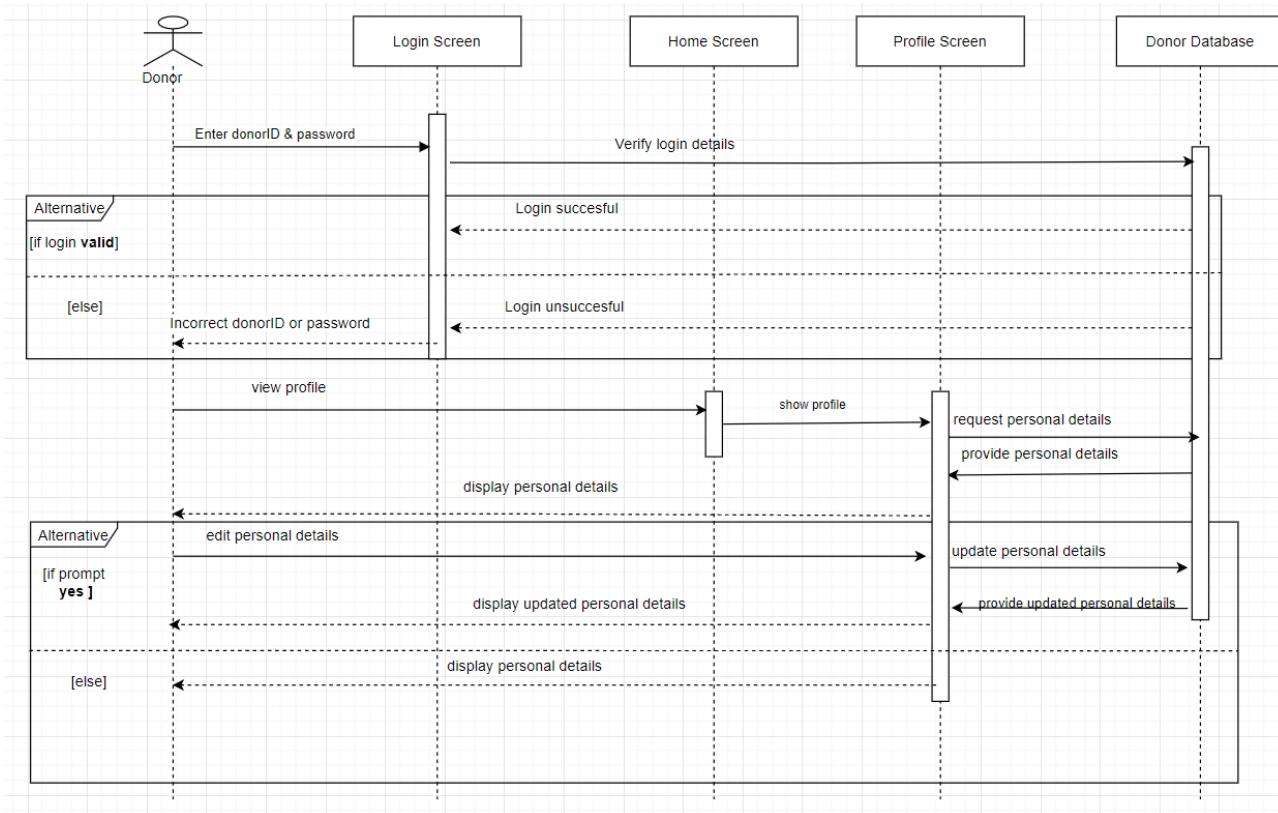


Figure 1.3 Donor's "Edit Profile" sequence diagram

4.2.1.4 Donate Food

1. The system requests the donor to enter their donorID and password.
2. The donor will enter their donorID and password into the system.
3. The system will retrieve data from the donor database and compare the donorID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The donor selects the "View Donation" page.
6. The donor selects the "Donate Food" feature to donate food to the food bank.
7. System will request food types from the Food Bank. The Food Bank sends the request to the Menu Database to retrieve the food types.

8. The Food Bank receives the food types and displays the types of food that are donatable.
9. The donor has an option to choose the type and amount of food they want to donate to the food bank.
10. System will prompt a confirmation message, and the donor can either select yes or no to proceed with the donation.
11. If the donor chooses yes ,the system adds the food donated to the Food Bank as well as into the Menu Database and in return prompts a message saying “Donation Successful” while displaying the food donated. If the donor chooses no, then the system remains at the donation screen.

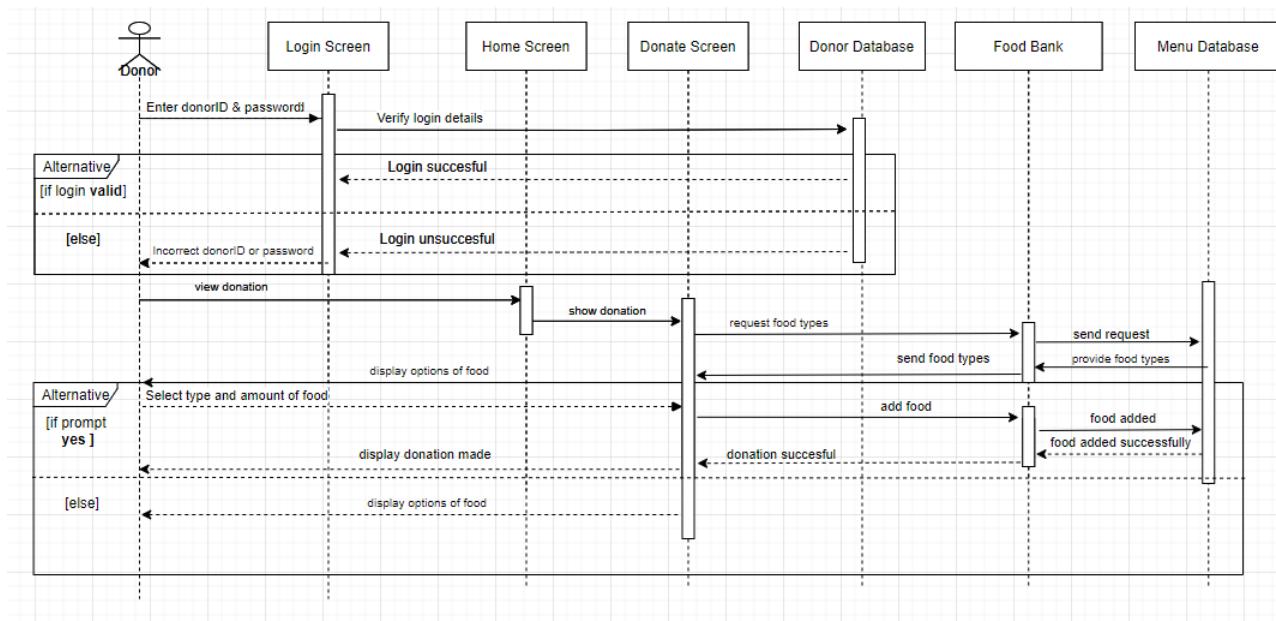


Figure 1.4 Donor’s “Donate Food” sequence diagram

4.2.1.5 Donate Money

- 1.The system requests the donor to enter their donorID and password.
- 2.The donor will enter their donorID and password into the system.
- 3.The system will retrieve data from the donor database and compare the donorID and password.
- 4.If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.

5. The donor selects the “View Donation” page.
6. The donor selects the “Donate Money” feature to donate money to the food bank.
7. The donor has an option to choose from the preset amount displayed by the system or to pay an amount of their choice.
8. Once the amount is selected, the system will prompt a confirmation message, and the donor can either select yes or no to proceed with the transaction.
9. The entered amount is later added to the Food Bank’s funds collection.
10. System will prompt a message saying “ Transaction successful” while displaying the amount of donation made.

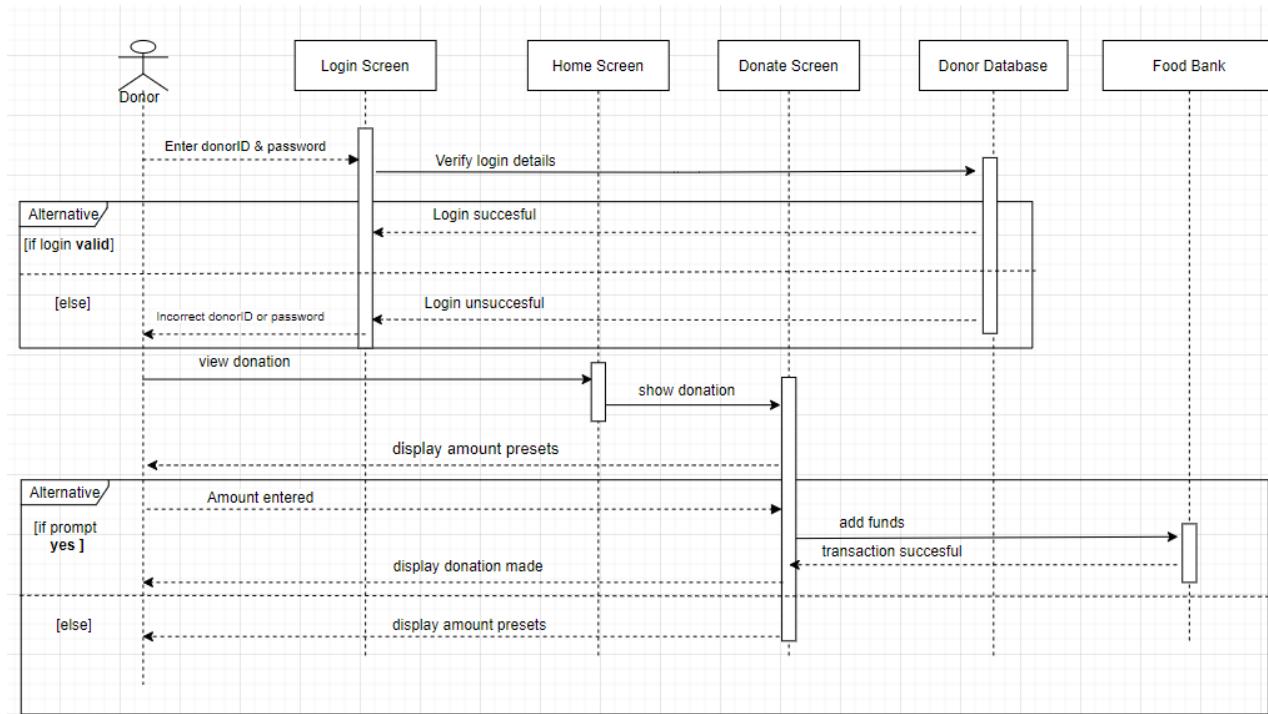


Figure 1.5 Donor’s “Donate Money” sequence diagram

4.2.1.6 View History of Donations

1. The system requests the donor to enter their donorID and password.
2. The donor will enter their donorID and password into the system.

3. The system will retrieve data from the donor database and compare the donorID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The donor selects the “View Donation” page.
6. System requests the history of donations made from the Food Bank.
7. Food Bank provides the information, and is displayed for the user in the Donate Screen.

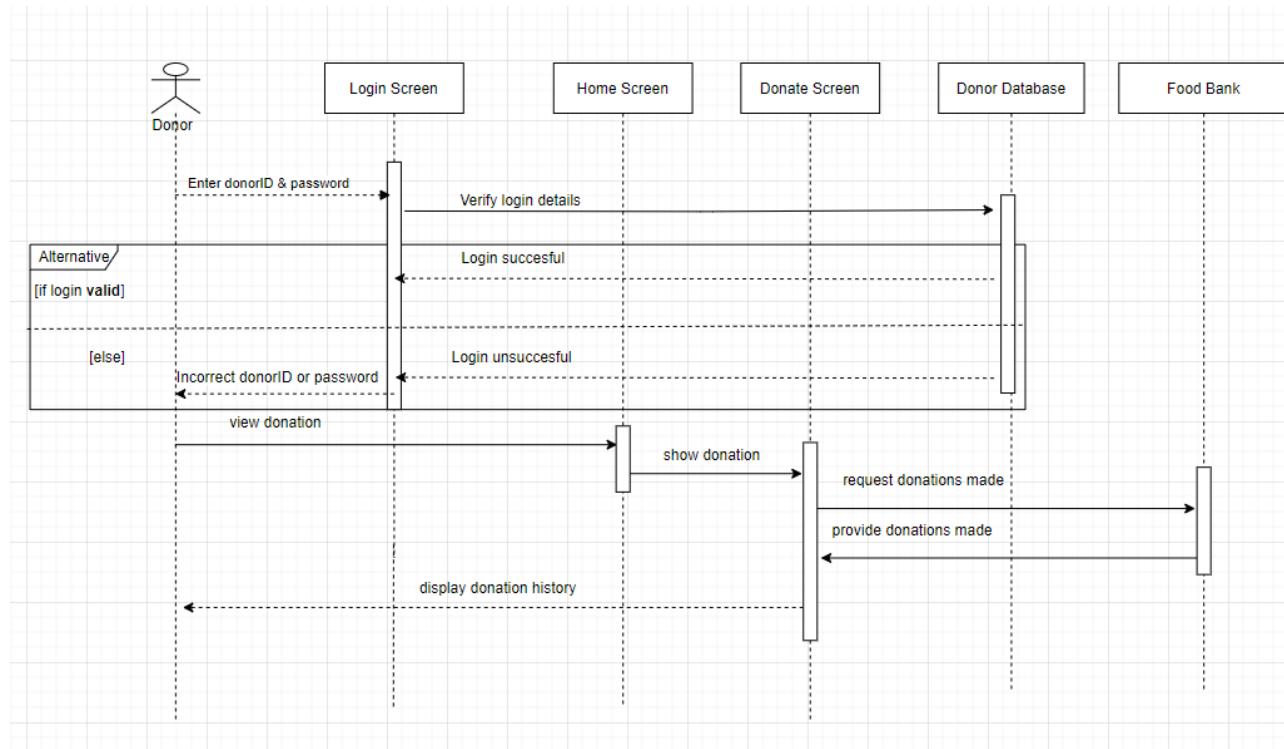


Figure 1.6 Donor’s “View History of Donations” sequence diagram

4.2.1.7 View Foods low on stock

1. The system requests the donor to enter their donorID and password.
2. The donor will enter their donorID and password into the system.
3. The system will retrieve data from the donor database and compare the donorID and password.

4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.

5. The donor selects the “View Donation” page.

6. System requests the food quantity from the Food Bank. Later, the Food Bank sends the request to the Menu Database.

7. The Menu Database provides the food quantity data to the Food Bank. The Food Bank sends the information to the Donate Screen interface.

8. From the Donate Screen interface, the system displays the foods that are low on stock.

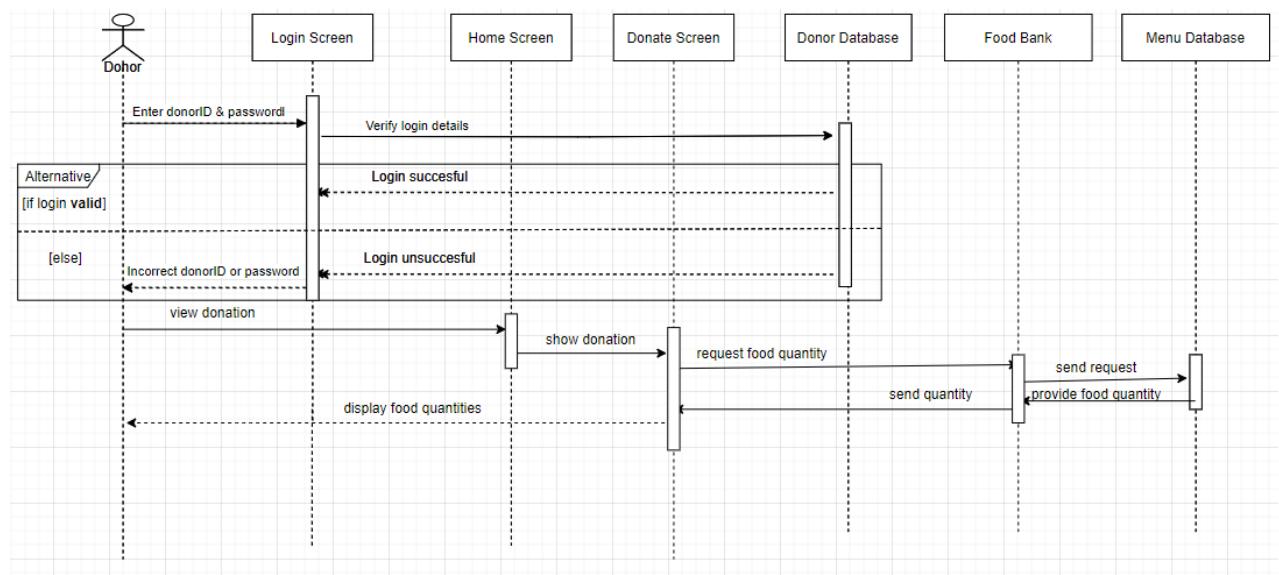


Figure 1.7 Donor’s ‘View Foods low on stock’ sequence diagram

4.2.1.8 Find food bank locations

1. The system requests the donor to enter their donorID and password.

2. The donor will enter their donorID and password into the system.

3. The system will retrieve data from the donor database and compare the donorID and password.

4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.

5. The donor selects the “Find” page.

6. System requests the donor’s state from the Donor Database and receives it.

7. System requests the Food Bank's state the Food Bank and receives it.
8. System compares the location of the donor and the food bank according to the state.
9. If the donor is in the same state as the food bank, the system displays the nearest food bank to the donor. If the donor is not in the same state as the food bank, the system displays all food banks.

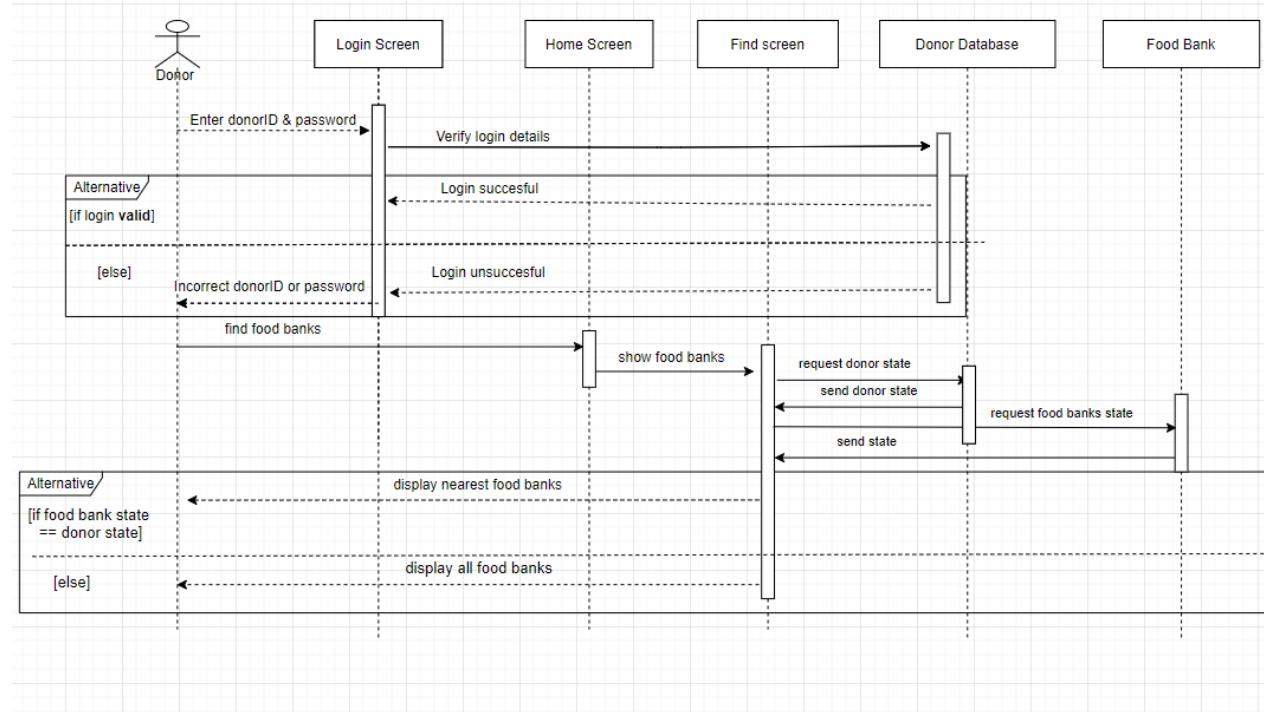


Figure 1.8 Donor's "Find food bank location" sequence diagram

4.2.2 Recipient

4.2.2.1 Sign Up

- 1) The Recipient enters the required Recipient Account information values and requests that the system saves the entered values.
- 2) The system validates the entered Recipient Account information.
- 3) The values for the Recipient Account information are stored in the Recipient's account database.
- 4) The system notifies the Recipient that the account has been created.

5) If the system determines that the Recipient entered invalid Recipient Account information, an error message will be displayed and the system will prompt the recipient to re-enter the valid information.

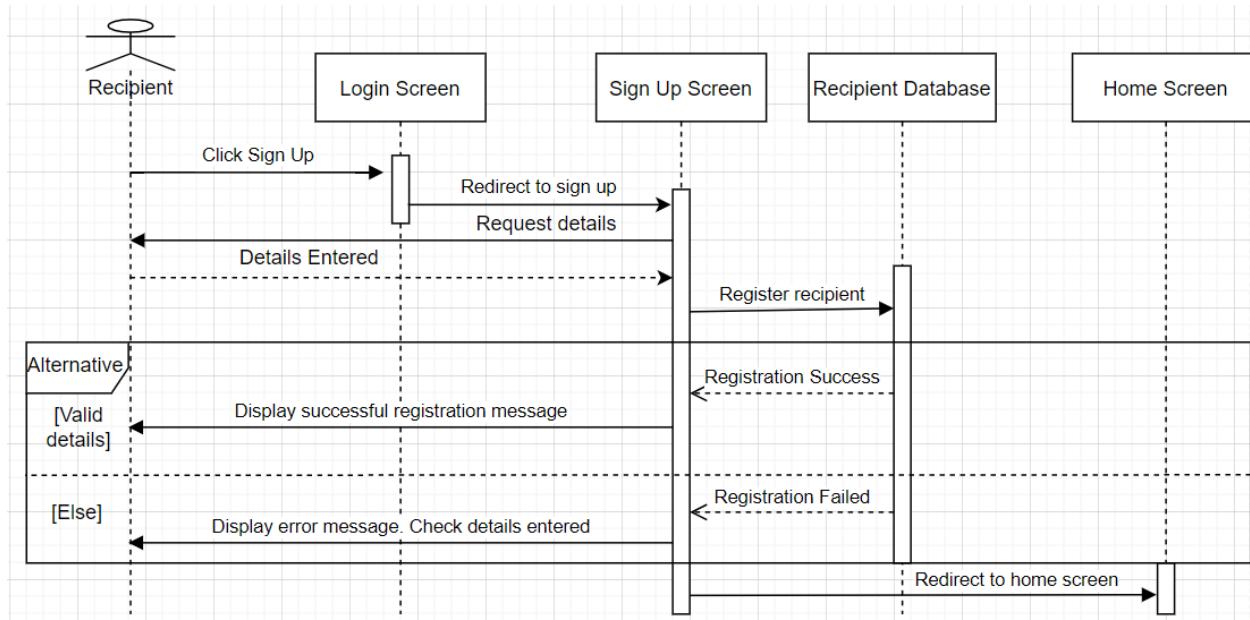


Figure 2.1 Recipient's 'Sign Up' sequence diagram

4.2.2.2 Login

- 1) The system requests that the recipient enter his/her username and password.
- 2) Then, the recipient enters his/her username and password.
- 3) The system will retrieve data from the recipient database and compare the username and password.
- 4) If the information provided is correct, The system will validate the entered username and password and log the recipient into the system.
- 5) If the recipient enters an invalid username and/or password, the system displays an error message.

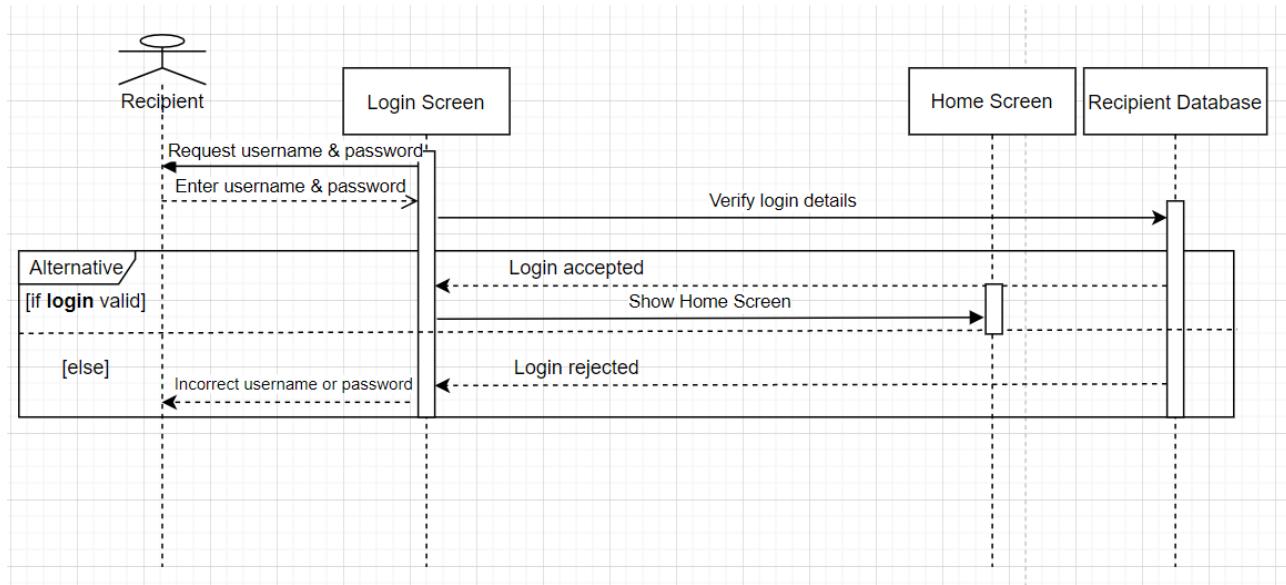


Figure 2.2 Recipient's 'Login' sequence diagram

4.2.2.3 View Profile

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and Password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. The recipient selects the 'view profile' feature to view their personal details.
6. System will retrieve data from the recipient database and display the data in the personal detail form.

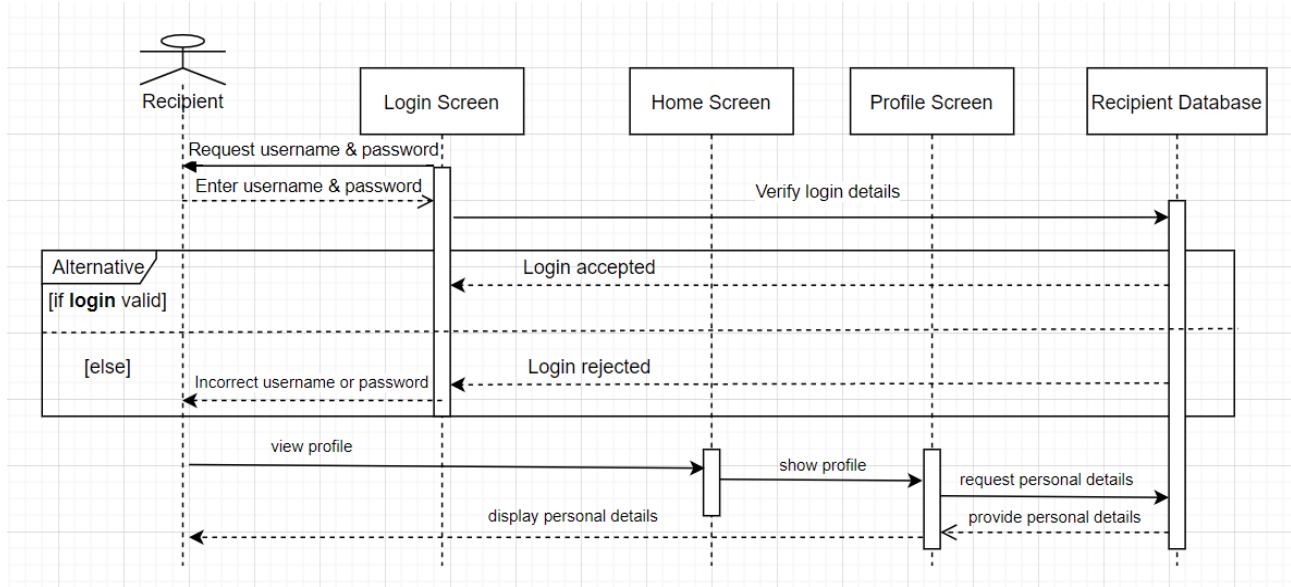


Figure 2.3 Recipient's 'view profile' sequence diagram

4.2.2.4 Edit Profile

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. The recipient selects the view profile feature to view his/her personal details.
6. System will retrieve data from the recipient database and display the data in the personal detail form.
7. The recipient also can select the 'edit profile' feature to update his/her personal details.
8. The recipient can enter new personal details and select the save button to update.
9. System will prompt a confirmation message, and the recipient can either select yes or no.
10. If yes ,then the system will check the entered details which cannot be an empty value or wrong input format. If no, then the system will go back to the edit state.
11. After checking, if there is no input error, then the system will update the record in the recipient database.

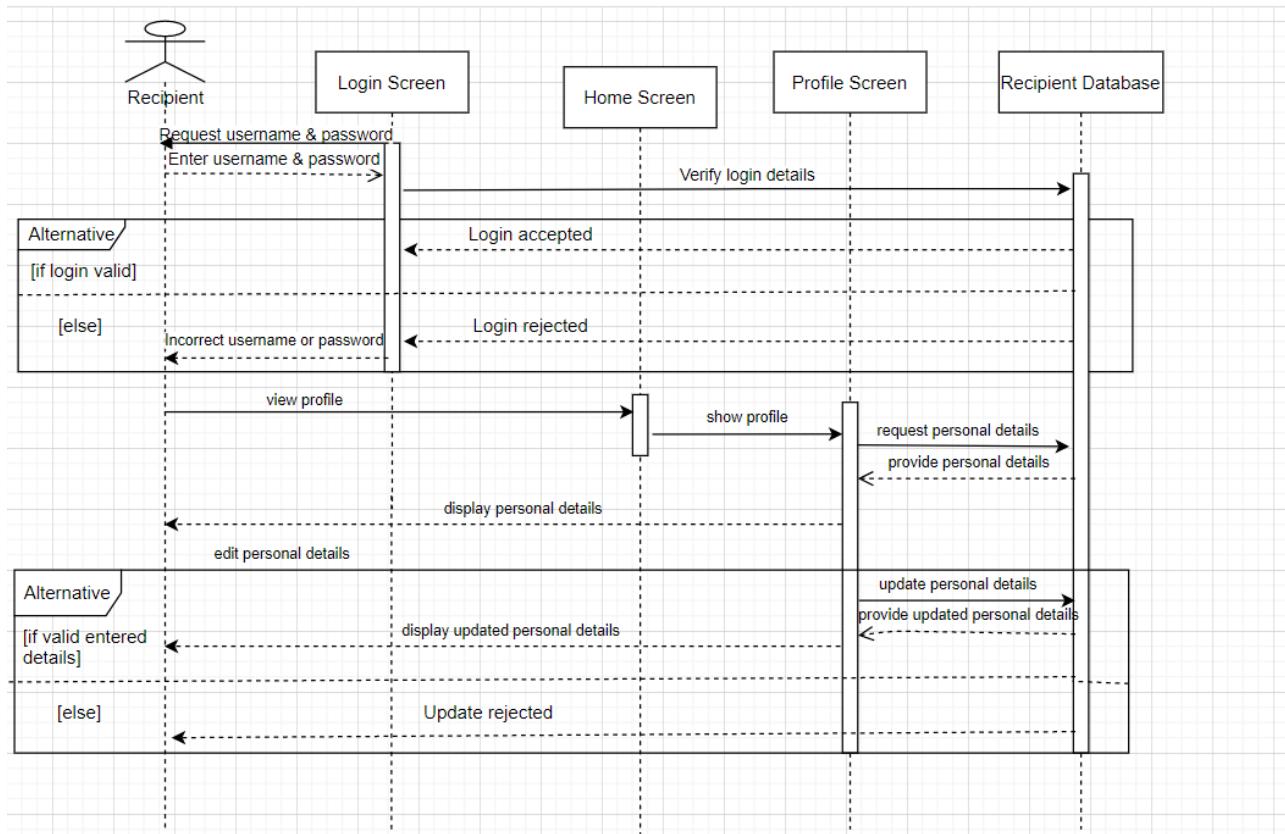


Figure 2.4 Recipient's 'edit profile' sequence diagram

4.2.2.5 View food menu

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. The recipient can select 'View food menu' function to view all the food that they offer and that is available for deliveries
6. System will retrieve data from the menu database and display the food details in the menu page.

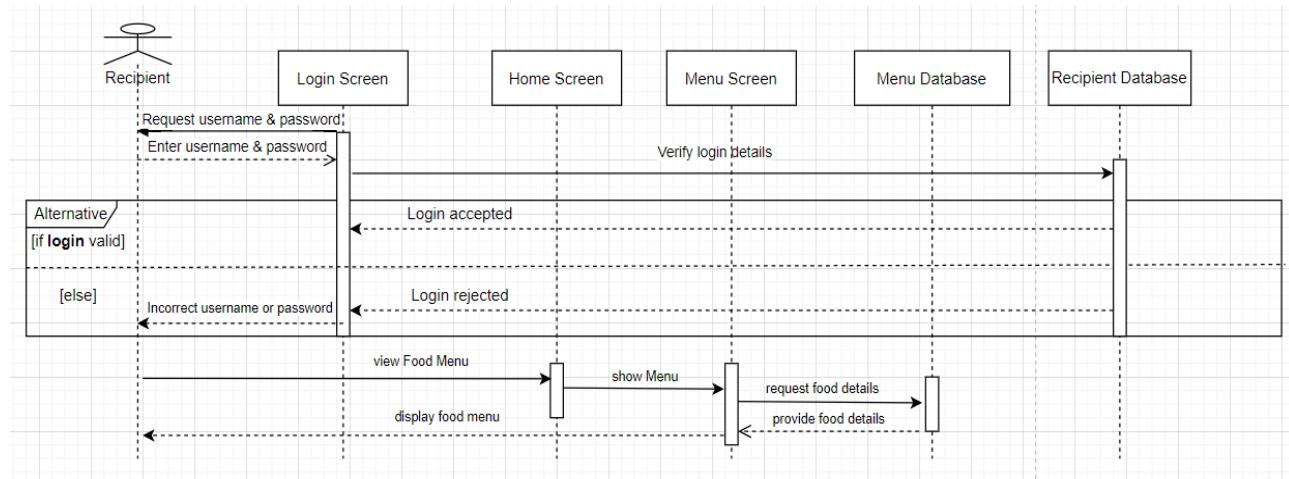


Figure 2.5 Recipient's 'view food menu' sequence diagram

4.2.2.6 Reserve food

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. A recipient selects one or more food items from the available food menu.
6. Then, System displays details related to the chosen food.
7. After viewing all the information regarding the food, the recipient is able to reserve the food.
8. After that, System stores the reservation of food in the recipient's database and sends food item information to the specific Food Bank Inventory System.
9. Confirmation regarding the reserved food details will be displayed.
10. If the recipient enters a wrong reservation of food, he/she will have the go back to the food menu screen.

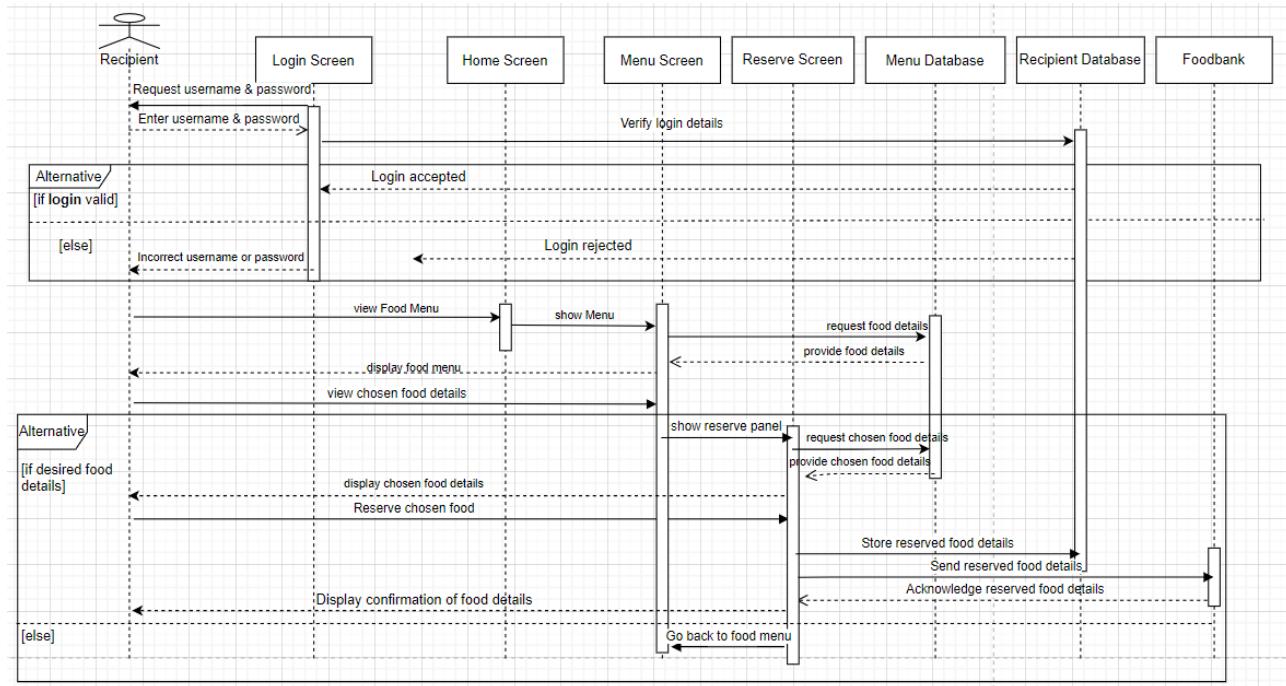


Figure 2.6 Recipient's 'Reserve Food' sequence diagram

4.2.2.7 Cancel Reservation of Food

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. A recipient chooses the record that needs to be cancelled.
6. Then, the recipient can click the cancel reservation button and a confirmation dialog box will be shown.
7. If the recipient confirms to cancel the reservation, he/she can click the yes button.
8. This makes the system to delete the food information that has been reserved in the database
9. The specific Food Bank Inventory System also will be updated regarding this matter and a confirmation message will be displayed.

10. If the recipient does not want to make the changes, he/she can click the no button to cancel the process.

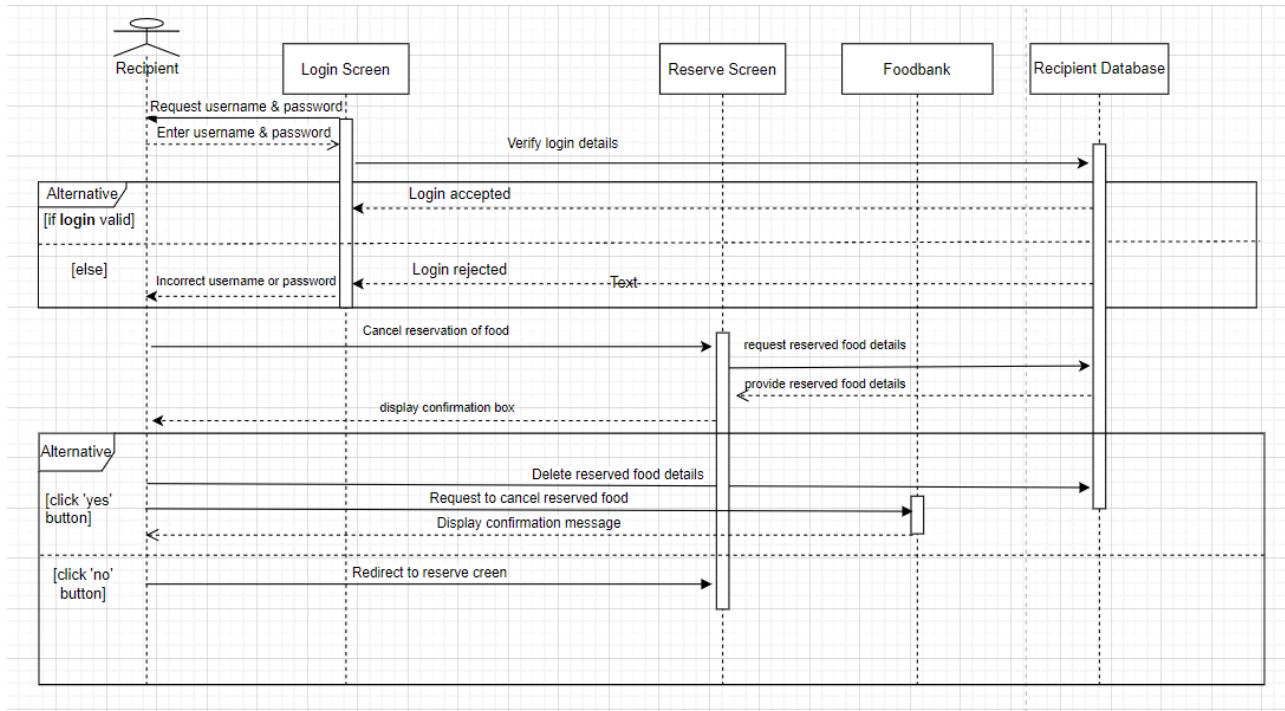


Figure 2.7 Recipient's 'Cancel Reservation of food' sequence diagram

4.2.2.8 View Community Feed

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. Select the 'community' section in the home screen to view the daily announcement about food waste, sharing tips and more.
6. In the home screen also, Select the 'news' feature that provides news and information about food.

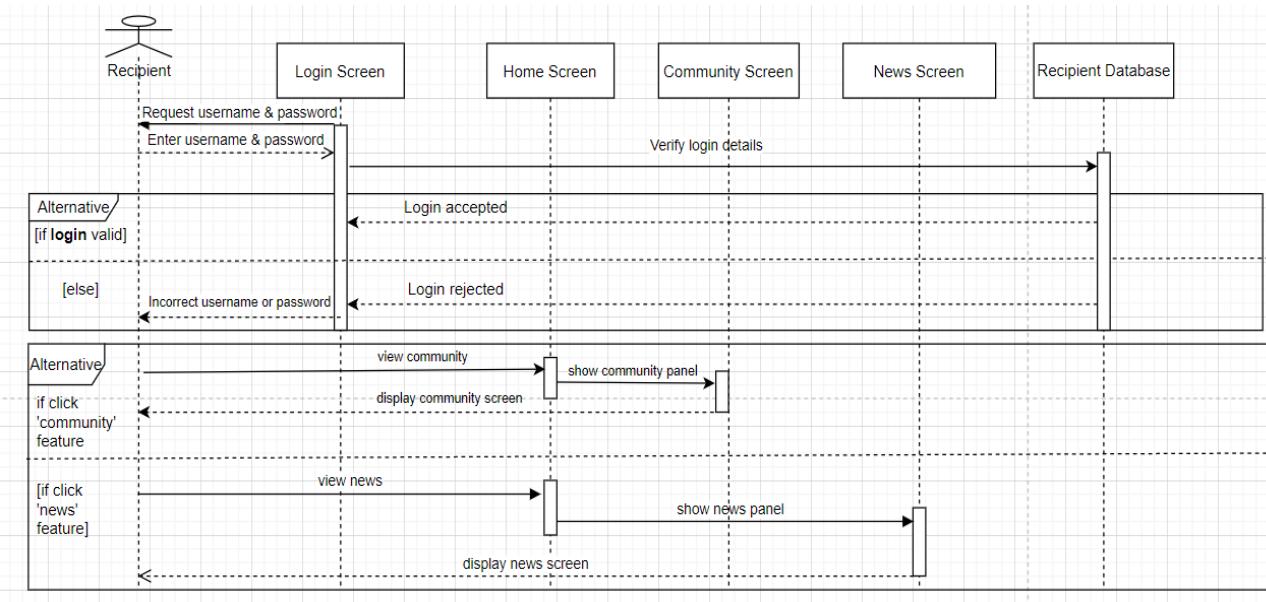


Figure 2.8 Recipient's 'View Community Feed' sequence diagram

4.2.2.9 Acquire Assistance

1. The system requests that the recipient enter his/her username and password.
2. The recipient will enter his/her username and password into the system.
3. The system will retrieve data from the recipient database and compare the username and password.
4. If correct, then the system shows the home page; If incorrect, the system will go back to login.
5. The recipient fills in the details such as subject and message in the 'contact us' feature in the home screen.
6. Submit it. Some of the details of the recipient that he/she provides during registration will be attached automatically when he/she submit the message.
7. Confirmation message regarding the submission of the message will be displayed.

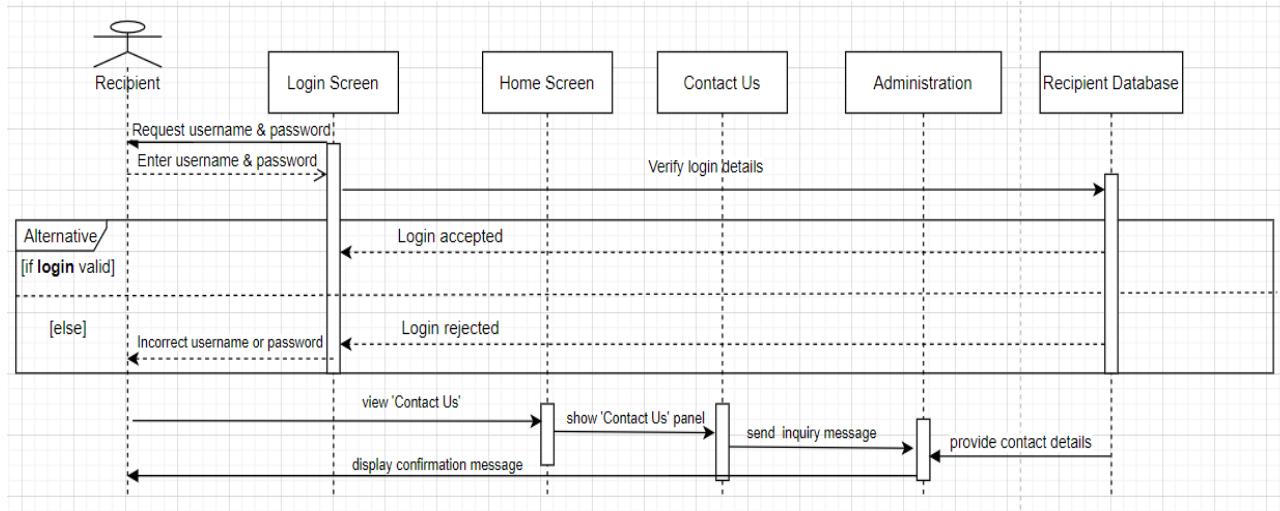


Figure 2.9 Recipient's 'Acquire Assistance' sequence diagram

4.2.3 Distributor

4.2.3.1 Sign up as rider

- 1) The Distributor enters the required Distributor Account information values and requests that the system saves the entered values.
- 2) The system validates the entered Distributor Account information.
- 3) The values for the Distributor Account information are stored in the Distributor's account database.
- 4) The system notifies the Distributor that the account has been created.
- 5) If the system determines that the Distributor entered invalid Distributor Account information, an error message will be displayed and the system will prompt the distributor to re-enter the valid information.

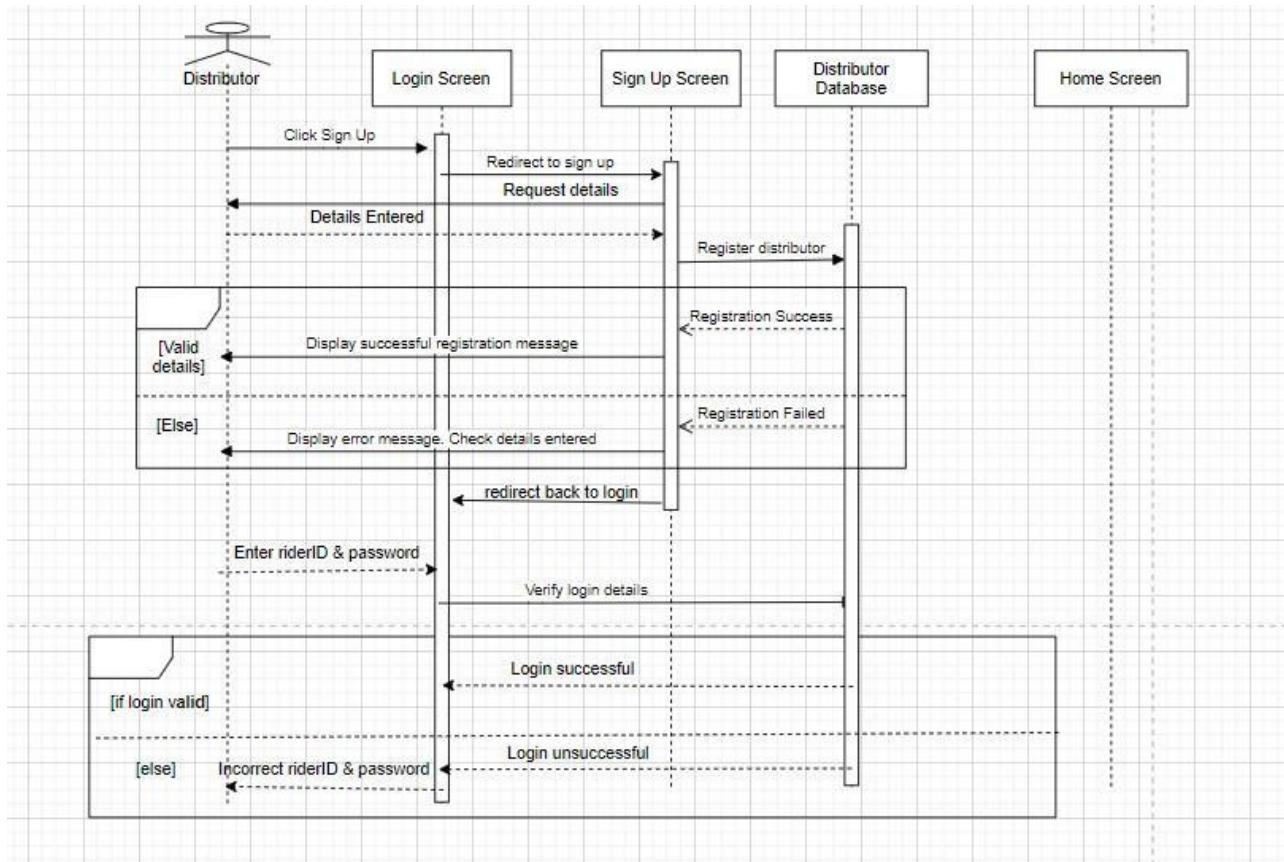


Figure 3.1 Distributor's 'Sign up as rider' sequence diagram

4.2.3.2 Login

- 1) The system requests that the distributor enter his/her username and password.
- 2) Then, the distributor enters his/her username and password.
- 3) The system will retrieve data from the distributor database and compare the username and password.
- 4) If the information provided is correct, The system will validate the entered username and password and log the distributor into the system.
- 5) If the distributor enters an invalid username and/or password, the system displays an error message.

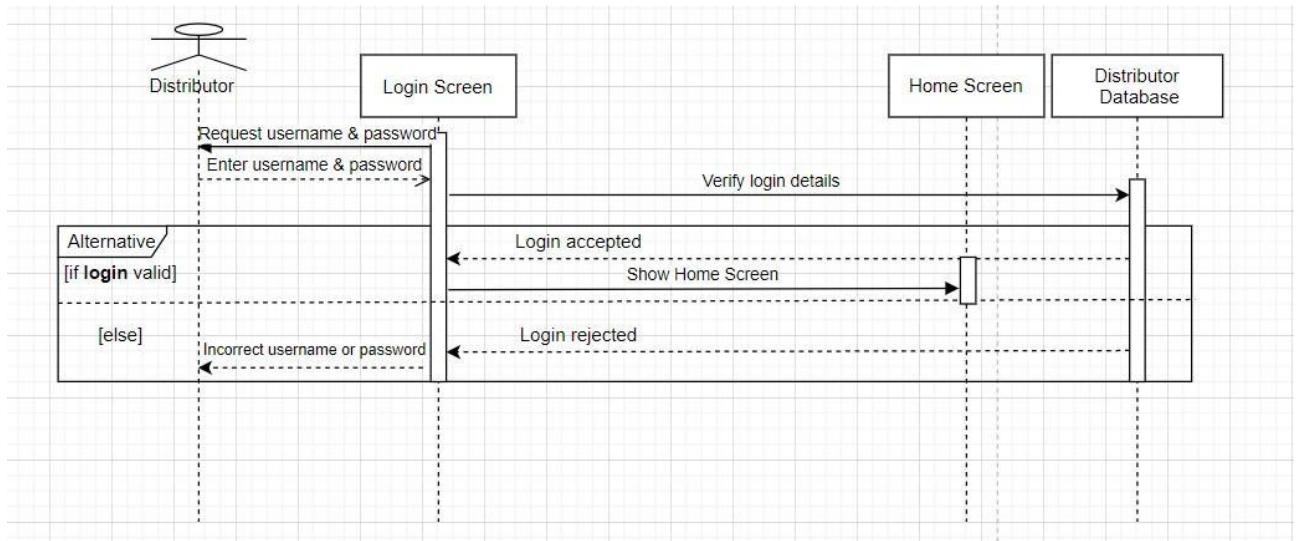


Figure 3.2 Distributor's 'Login' sequence diagram

4.2.3.3 Edit profile

1. The system requests the distributor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The distributor selects the "View Profile" page to view their personal details.
6. System will retrieve data from the distributor database and display the data in the personal detail form.
7. The distributor later selects the 'Edit Profile' feature to update their personal details.
8. The distributor can edit their personal details and select the save button once they're done to update their information.
9. System will prompt a confirmation message, and the distributor can either select yes or no.
10. If the distributor chooses yes ,the system confirms and updates the information in the distributor's database. If the distributor chooses no, then the system will go back to the edit profile state.

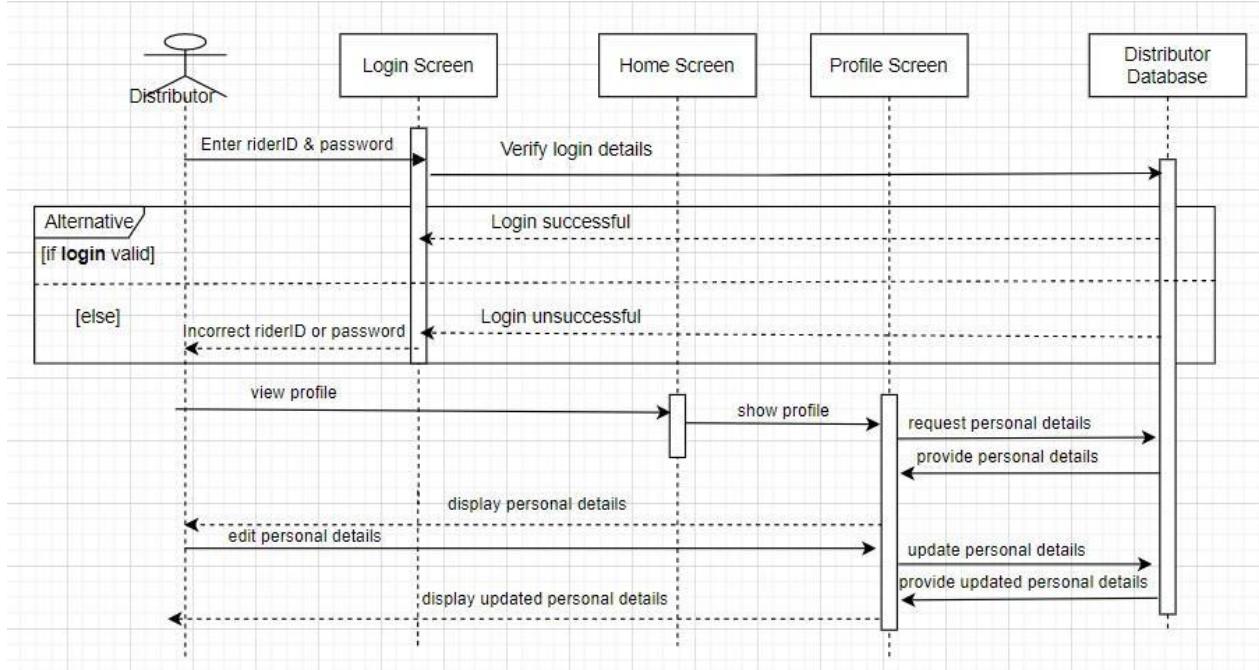


Figure 3.3 Distributor's 'Edit profile' sequence diagram

4.2.3.4 View profile

1. The system requests the donor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The distributor selects the 'View Profile' page to view their personal details.
6. System will retrieve data from the distributor database and display the data in the personal detail form.

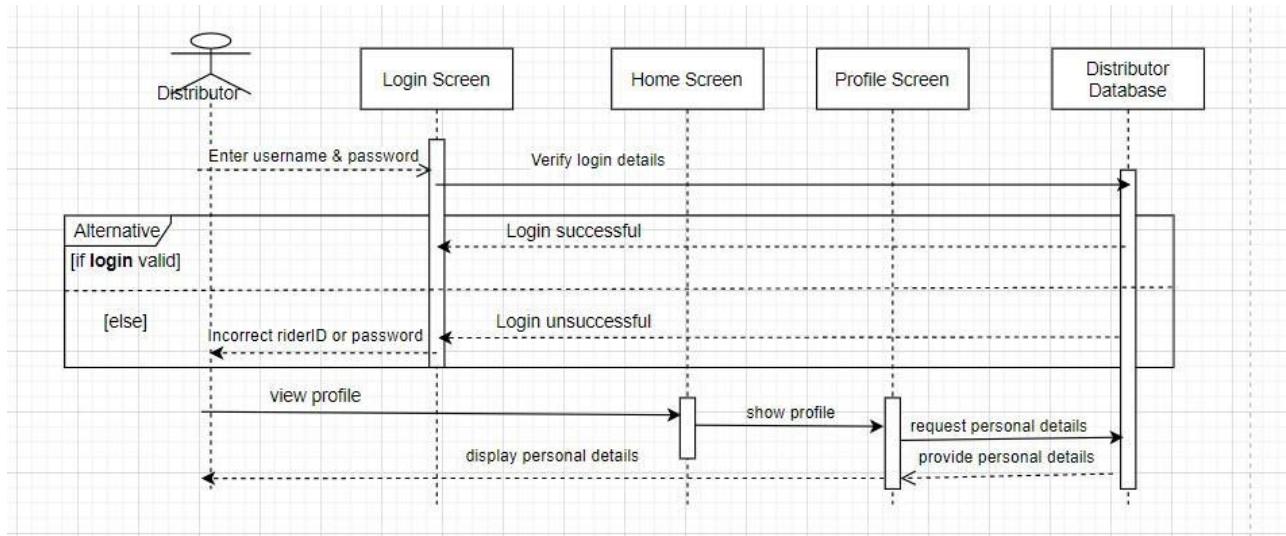


Figure 3.4 Distributor's 'View profile' sequence diagram

4.2.3.5 Search for nearby foodbank locations

1. The system requests the distributor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The distributor selects the "Find" page.
6. System requests the Distributor's state from the Distributor Database and receives it.
7. System requests the Food Bank's state the Food Bank and receives it.
8. System compares the location of the distributor and the food bank according to the state.
9. If the distributor is in the same state as the food bank, the system displays the nearest food bank to the distributor. If the distributor is not in the same state as the food bank, the system displays all food banks.

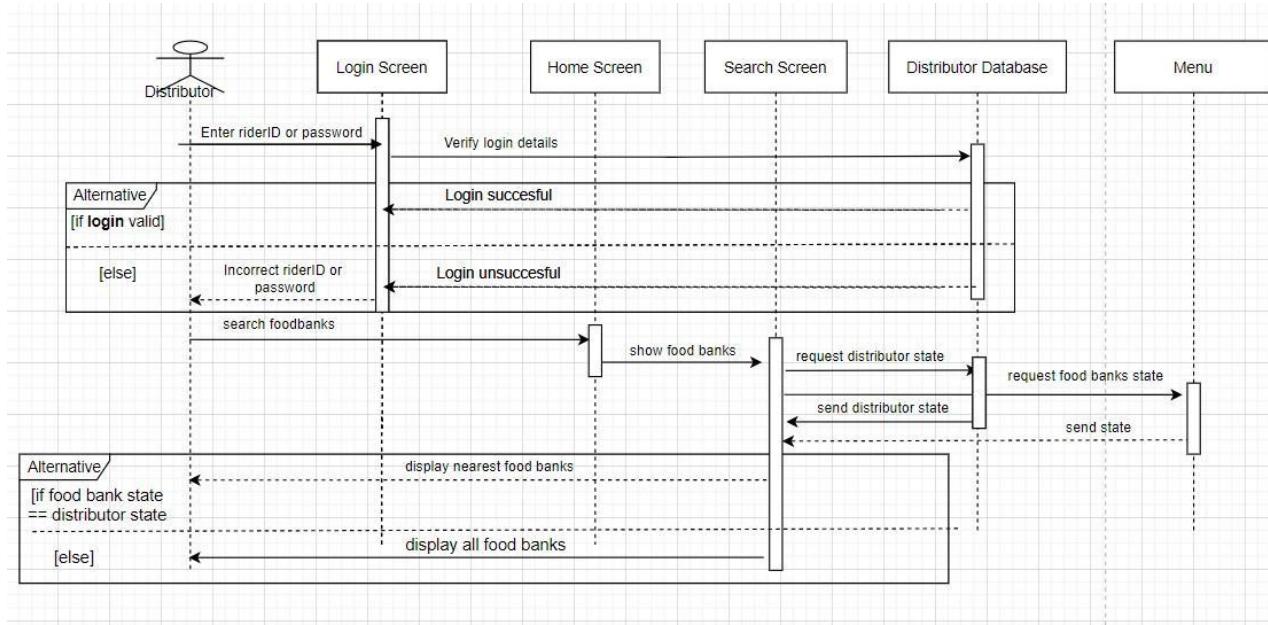


Figure 3.5 Distributor's 'Search for nearby foodbank locations' sequence diagram

4.2.3.6 Check status of reserved food

1. The system requests the distributor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The distributor selects the "Search Foodbanks" page.
6. System requests the status of reserved food from the Food Bank. Later, the Food Bank sends the request to the Menu Database.
7. The Menu Database provides the food status data to the Food Bank. The Food Bank sends the information to the Search Screen interface.
8. From the Search Screen interface, the system displays the status of reserved food.

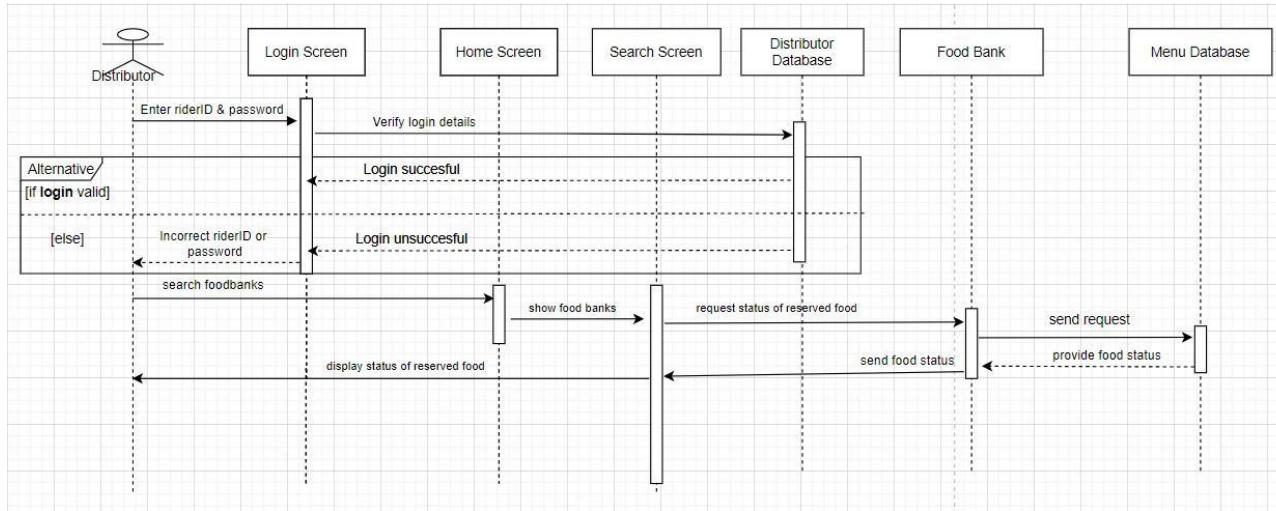


Figure 3.6 Distributor's 'Check status of reserved food' sequence diagram

4.2.3.7 Pick up food

1. The system requests the distributor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The distributor selects the "Menu" page and proceeds to confirm the pick up at the menu screen.
6. Then, System reports pick up to the Foodbank.
7. System will then remove the amount of food that is being delivered by the distributor from the Foodbank.
8. System will update the number of food available and reserved in the specific Foodbank.
9. System will retrieve data from the Menu database and display the pick up details in the menu page.

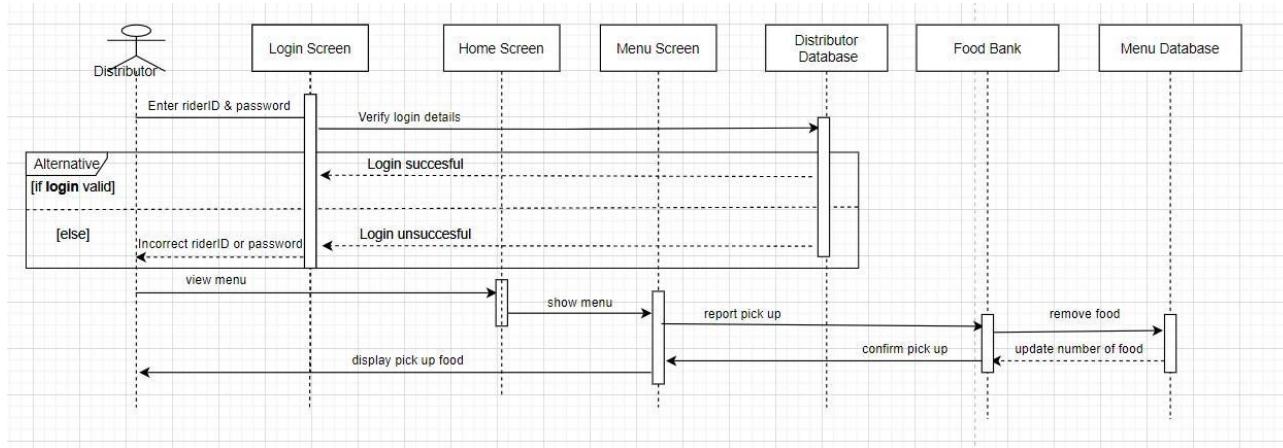


Figure 3.7 Distributor's 'Pick up food' sequence diagram

4.2.3.8 View delivery status

1. The system requests the distributor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. The distributor can select the 'View menu' function to view all the food that they can deliver and that are available for deliveries.
6. System requests the delivery status from the Food Bank. Later, System updates the delivery status sent from the Foodbank.
7. System will display the delivery status at the menu page.

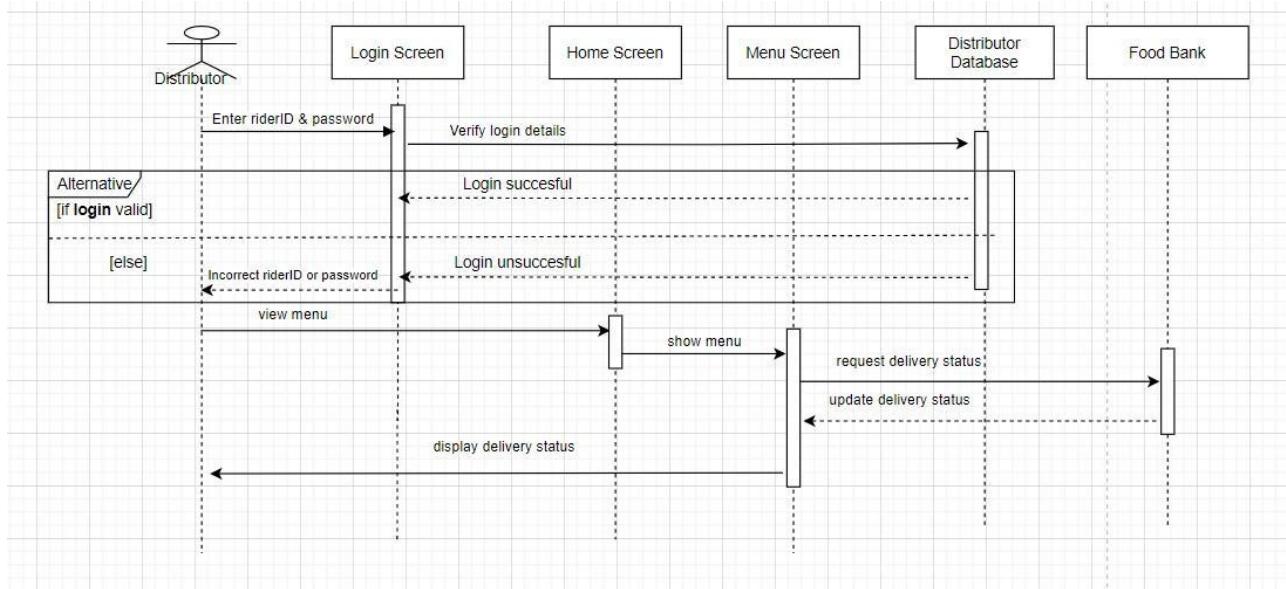


Figure 3.8 Distributor's 'View delivery status' sequence diagram

4.2.3.9 Drop-off food

1. The system requests the distributor to enter their riderID and password.
2. The distributor will enter their riderID and password into the system.
3. The system will retrieve data from the distributor database and compare the riderID and password.
4. If login is successful, the system shows the home page; If login is unsuccessful, the system goes back to the login page.
5. After food has been delivered to the recipient, the distributor has to select the "Menu" page and proceed to select the drop off food function at the menu screen.
6. Then, System reports drop off to the menu database.
7. System will retrieve data from the Menu database and confirm the drop off details in the menu screen.
9. System will then display delivery successful to the distributor.

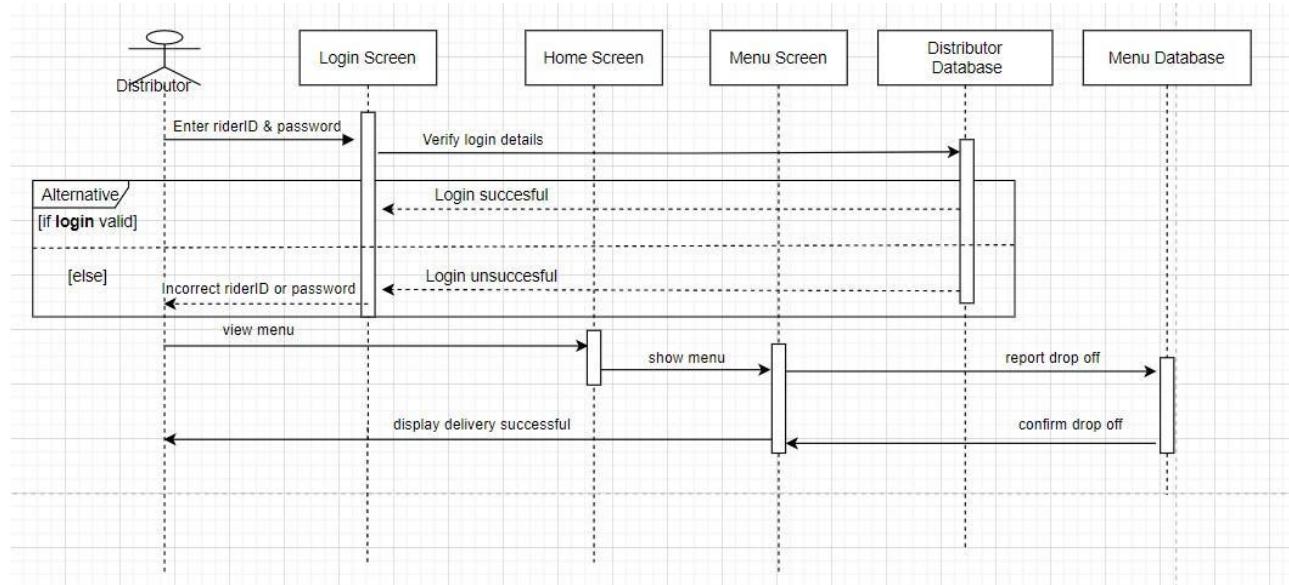


Figure 3.9 Distributor's 'Drop-off food' sequence diagram

4.2.4 Admin

View Main Menu

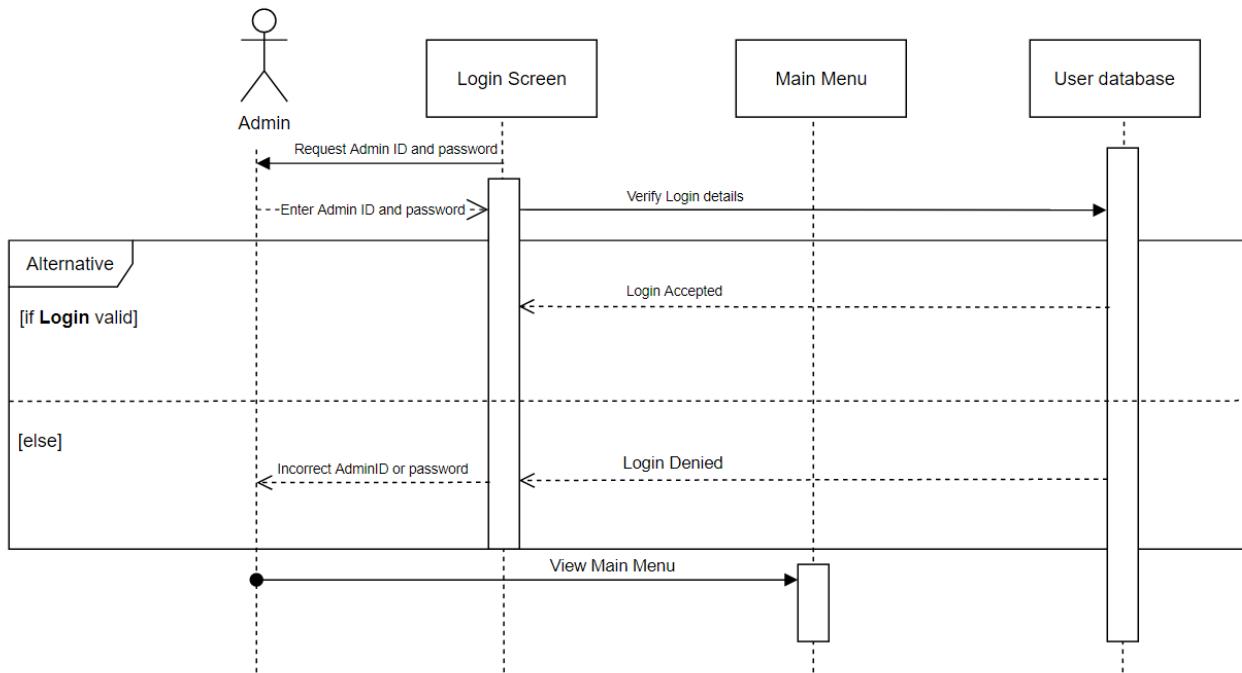


Figure 4.1 Admin's Main Menu Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.

Add Users

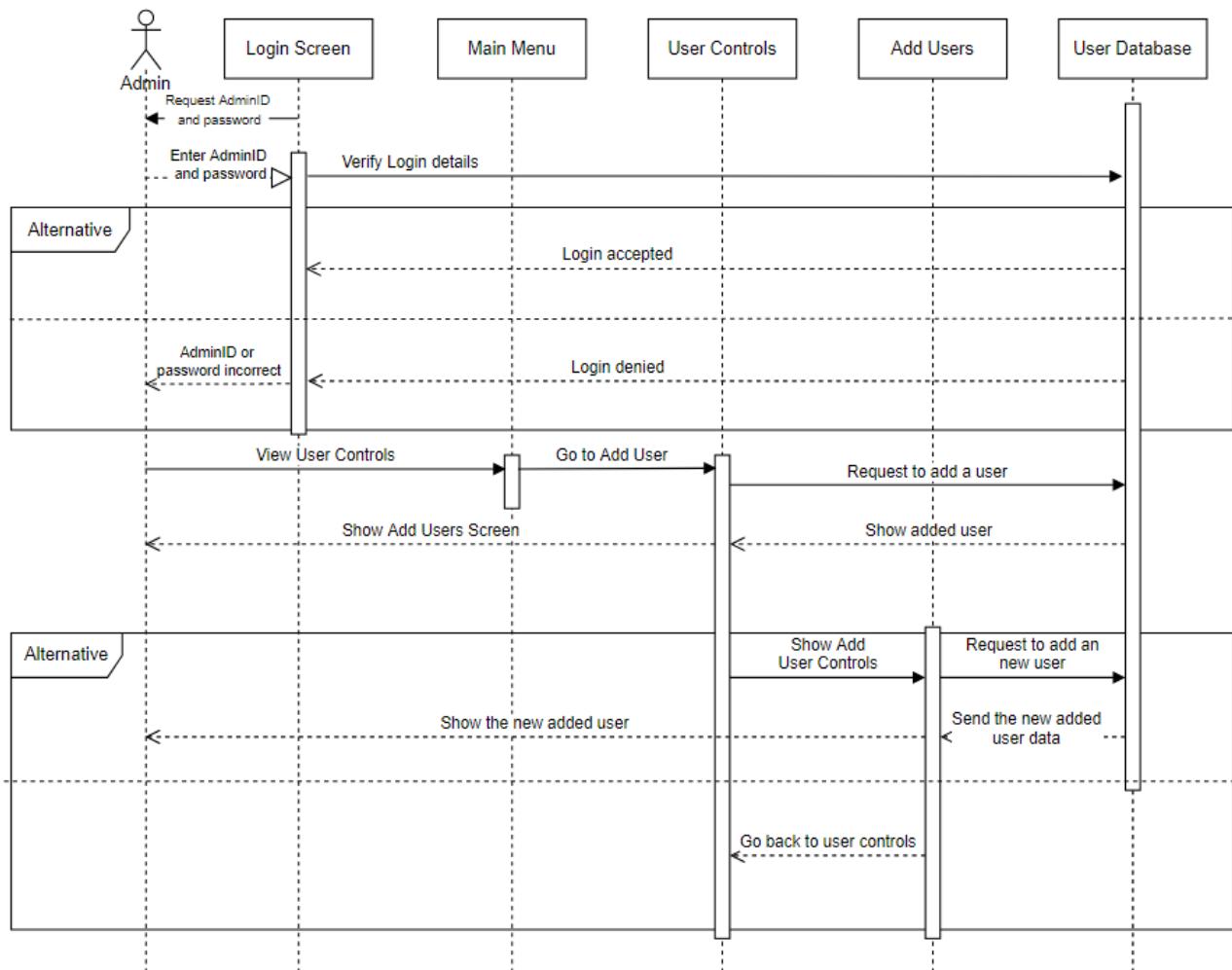


Figure 4.2 Admin's Add Users Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Add users, the admin will navigate to User Controls.
6. In User Control, the admin is able to navigate to Add User.

7. Add User Controls will be displayed and the admin able to input data for a new user to be added in the User database.
8. After input, the database sends the new added user data back to Add User Control.
9. The system will let the admin know that the new added user is in the database.
10. The admin is able to go back to the User Control if finish adding new users.

Add Food Bank Report

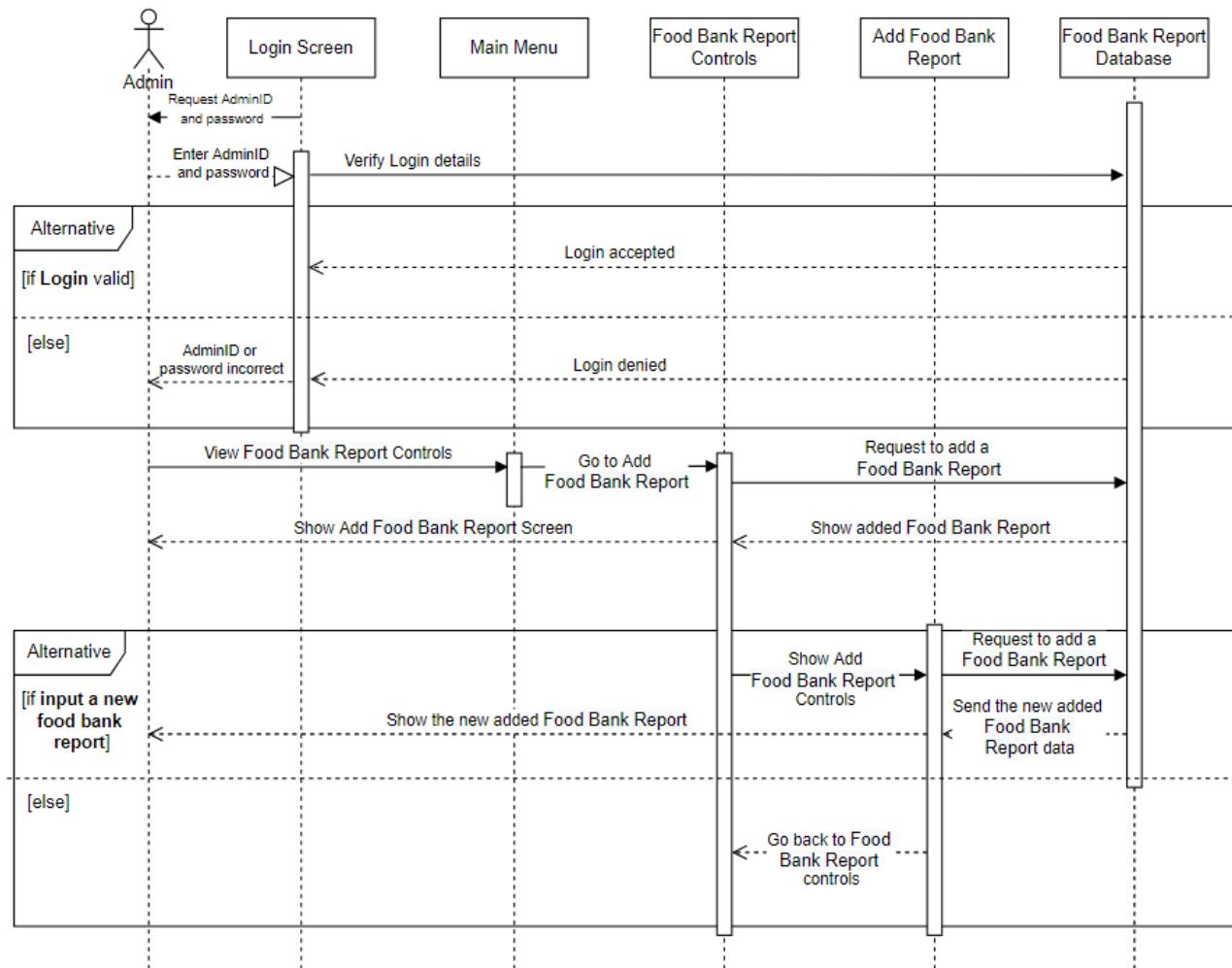


Figure 4.3 Admin's Add Food Bank Report Sequence Diagram

1. The system will request Admin ID and password.
 2. The admin enters their Admin ID and password
 3. The system will refer to the user database to search a match from the user input
 4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
 5. To Add Food Bank Report, the admin will navigate to Food Bank Report Controls.
 6. In Food Bank Report Control, the admin is able to navigate to Add Food Bank Report.

7. Add Food Bank Report Controls will be displayed and the admin able to input data for a new Food Bank Report to be added in the Food Bank Report database.
8. After input, the database sends the new added Food Bank Report data back to Add Food Bank Report Control.
9. The system will let the admin know that the new added Food Bank Report is in the database.
10. The admin is able to go back to the Food Bank Report Control if finish adding new reports.

Add Distribution Location

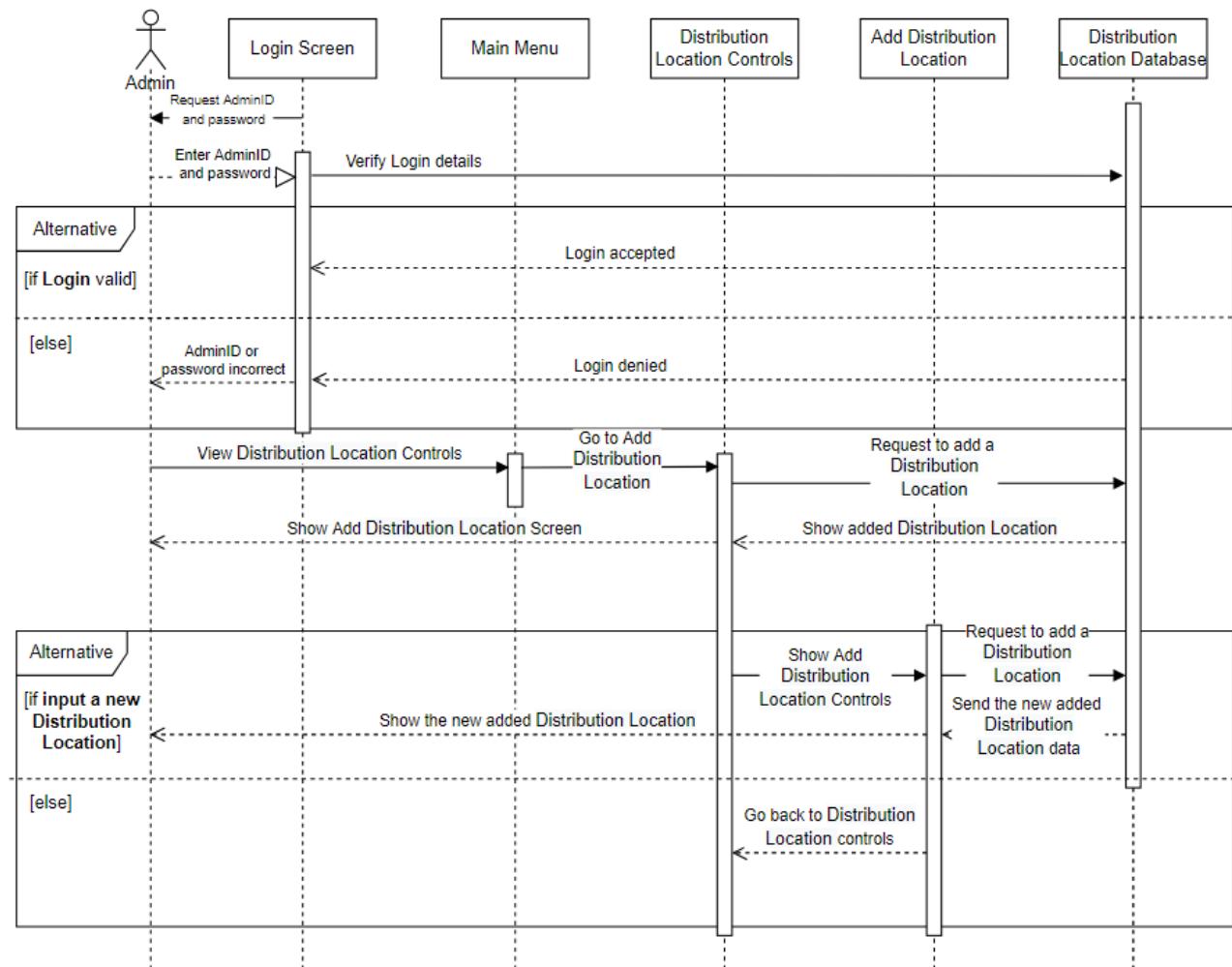


Figure 4.4 Admin's Add Distribution Location Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Add Distribution Location, the admin will navigate to Distribution Location Controls.
6. In Distribution Location Control, the admin is able to navigate to Add Distribution Location.

7. Add Distribution Location Controls will be displayed and the admin able to input data for a new Distribution Location to be added in the Distribution Location database.
8. After input, the database sends the new added Distribution Location data back to Add Distribution Location.
9. The system will let the admin know that the new added Distribution Location is in the database.
10. The admin is able to go back to the Food Bank Report Control if finish adding new locations.

Add Food Categories

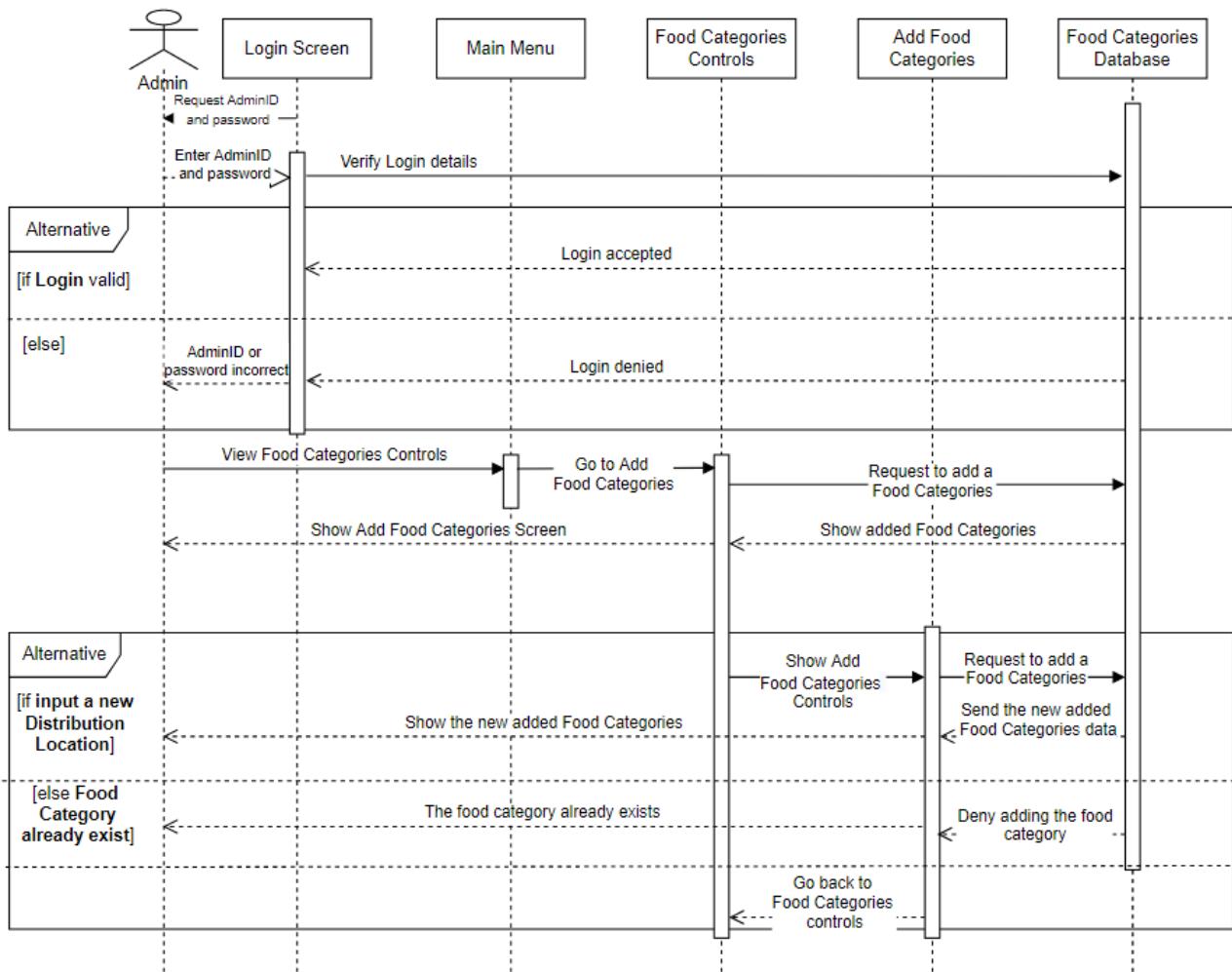


Figure 4.5 Admin's Add Food Categories Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Add Food Categories, the admin will navigate to Food Categories Controls.

6. In Food Categories Control, the admin is able to navigate to Add Food Categories.
7. Add Food Categories Controls will be displayed and the admin able to input data for a new Food Category to be added in the Food Categories database.
8. After input, the database sends the new added Food Category data back to Add Food Categories.
9. The system will let the admin know that the new added Food Category is in the database.
10. The admin is able to go back to the Food Categories Control if finish adding new categories.

Delete Users

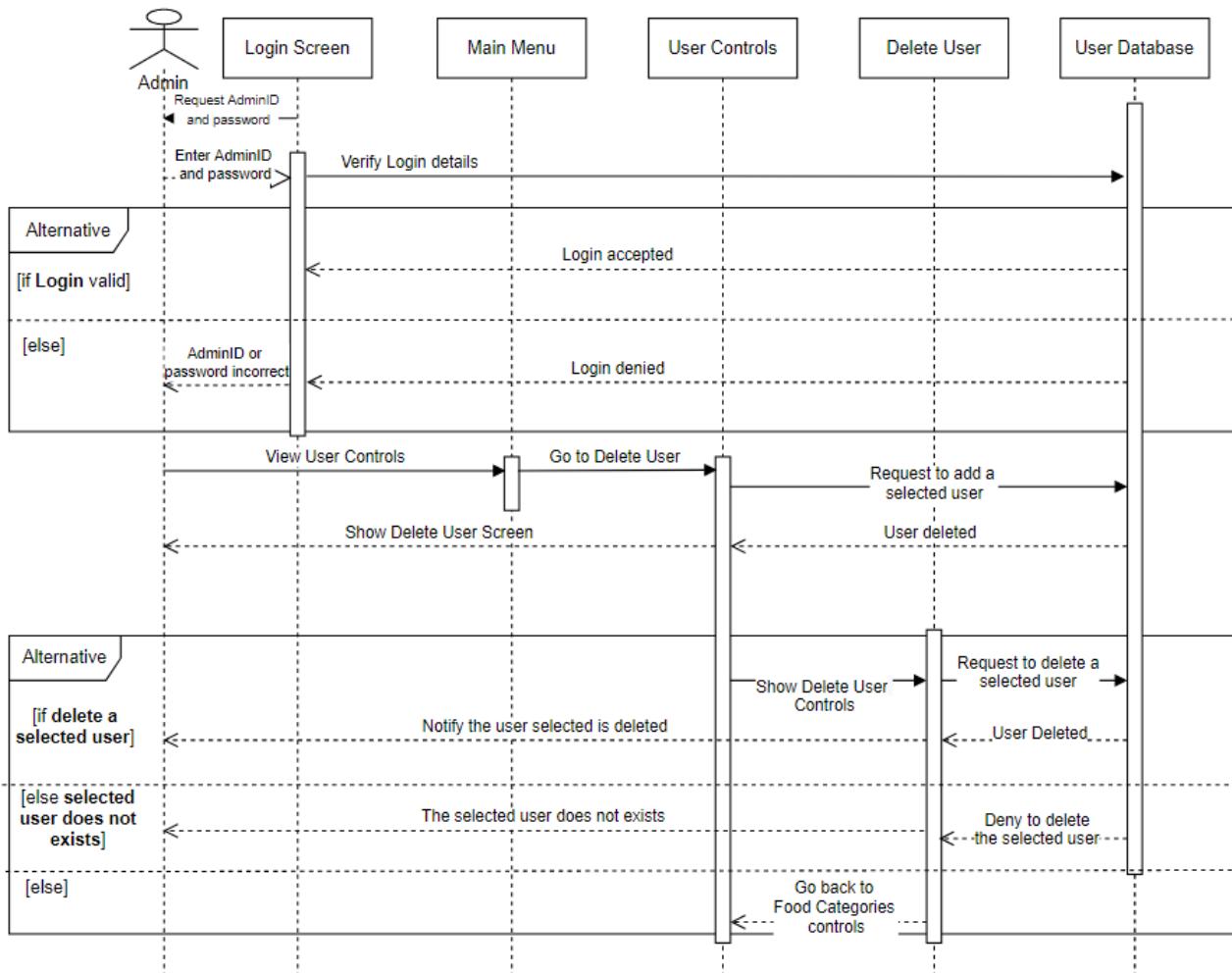


Figure 4.6 Admin's Delete Users Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Delete users, the admin will navigate to User Controls.
6. In User Control, the admin is able to navigate to Delete User.

7. *Delete User Controls will be displayed and the admin able to select data for a user to be deleted from the User database.*
8. *After input, the database informs the admin that the selected user if exists is deleted from the database. If it does not exist, the database will not take any action and the system tells the admin that the user does not exist.*
9. *The admin is able to go back to the User Control if finish deleting users.*

Delete Food Bank Report

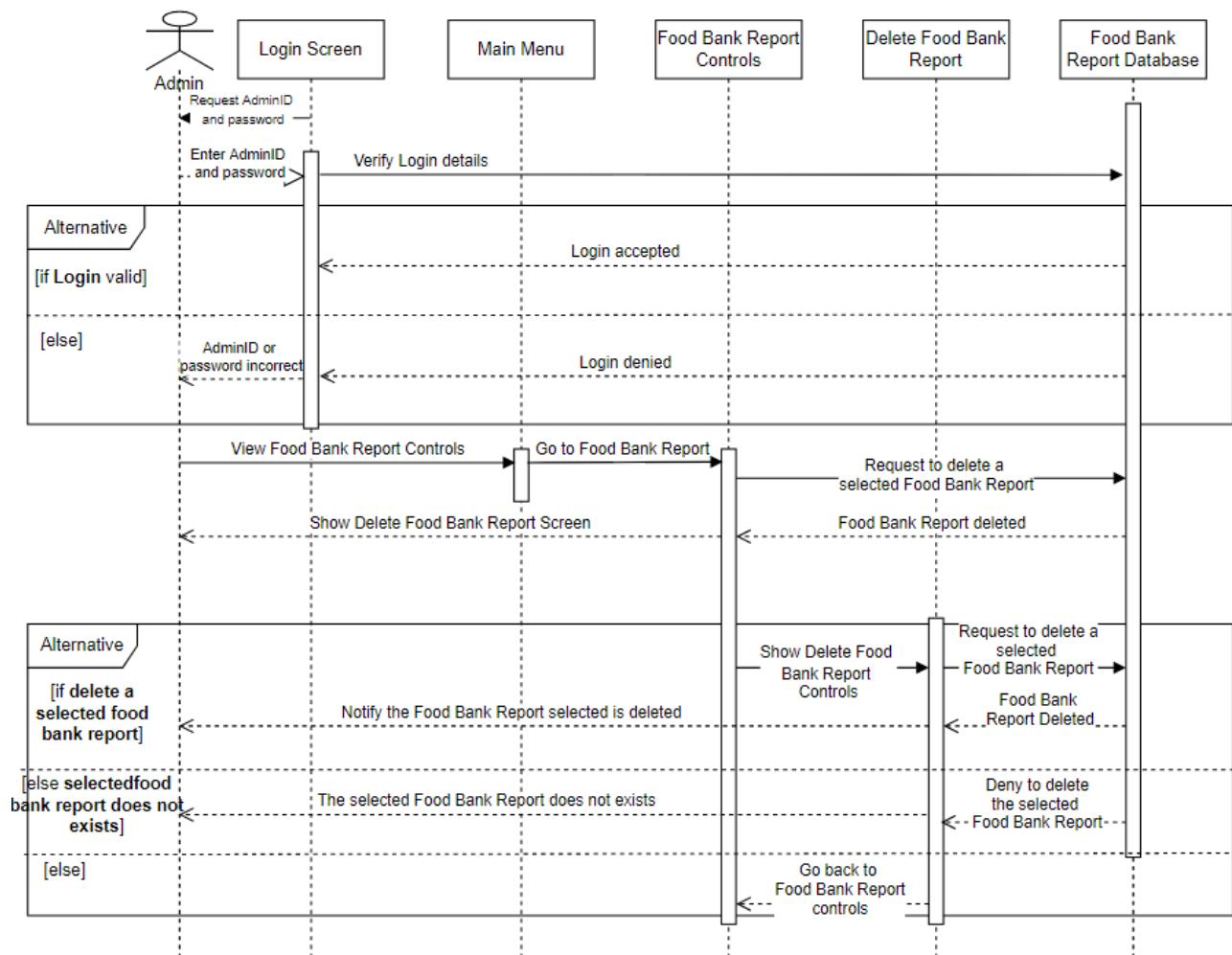


Figure 4.7 Admin's Delete Users Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Delete Food Bank Report, the admin will navigate to Food Bank Report Controls.
6. In Food Bank Report Control, the admin is able to navigate to Delete Food Bank Report.

7. *Delete Food Bank Report Controls will be displayed and the admin able to select data for a report to be deleted from the Food Bank Report database.*
8. *After input, the database informs the admin that the selected report if it exists is deleted from the database. If it does not exist, the database will not take any action and the system tells the admin that the report does not exist.*
9. *The admin is able to go back to the Food Bank Report Control if finish deleting reports.*

Delete Distribution Location

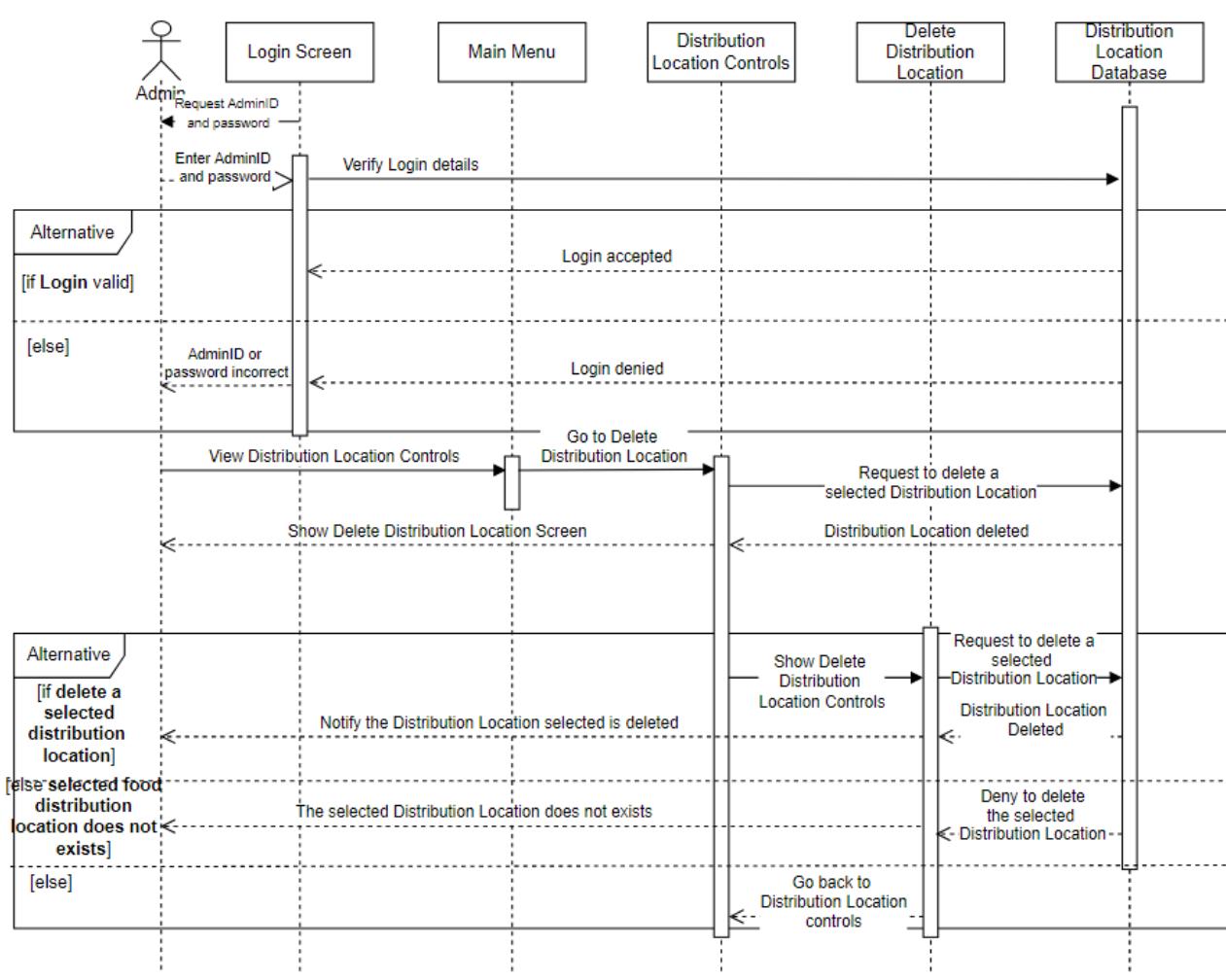


Figure 4.8 Admin's Delete Distribution Location Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Delete Distribution Location, the admin will navigate to Distribution Location Controls.

6. In Distribution Location Control, the admin is able to navigate to Delete Distribution Location.
7. Delete Distribution Location Controls will be displayed and the admin able to select data for a location to be deleted from the Distribution Location database.
8. After input, the database informs the admin that the selected location if it exists is deleted from the database. If it does not exist, the database will not take any action and the system tells the admin that the location does not exist.
9. The admin is able to go back to the Distribution Location Control if finish deleting locations.

Delete Food Categories

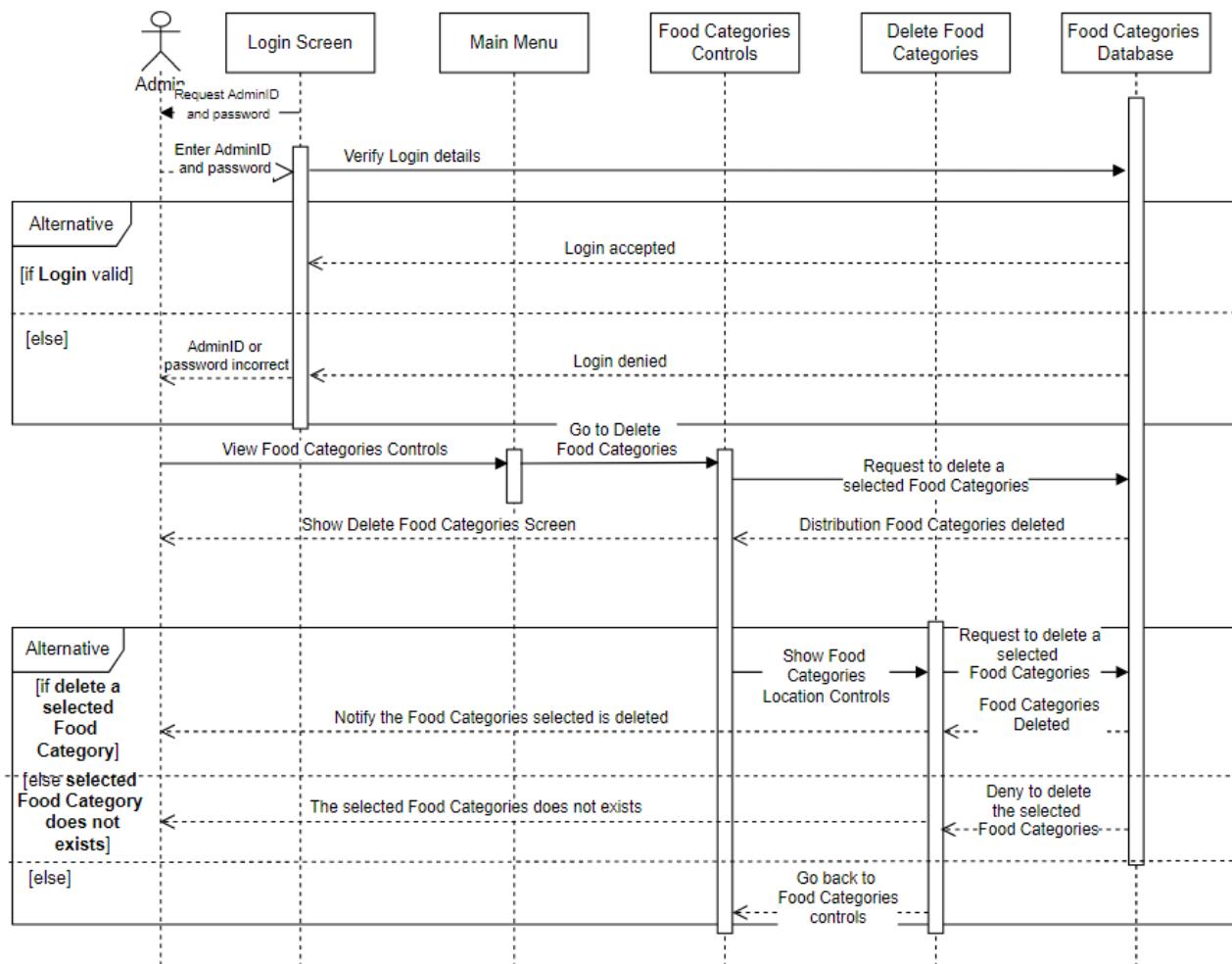


Figure 4.9 Admin's Food Categories Location Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Delete Food Categories, the admin will navigate to Food Categories Controls.
6. In Food Categories Control, the admin is able to navigate to Delete Food Categories.

7. Delete Food Categories Controls will be displayed and the admin able to select data for a category to be deleted from the Food Categories database.
8. After input, the database informs the admin that the selected category if it exists is deleted from the database. If it does not exist, the database will not take any action and the system tells the admin that the category does not exist.
9. The admin is able to go back to the Food Categories Control if finish deleting categories.

Edit Users

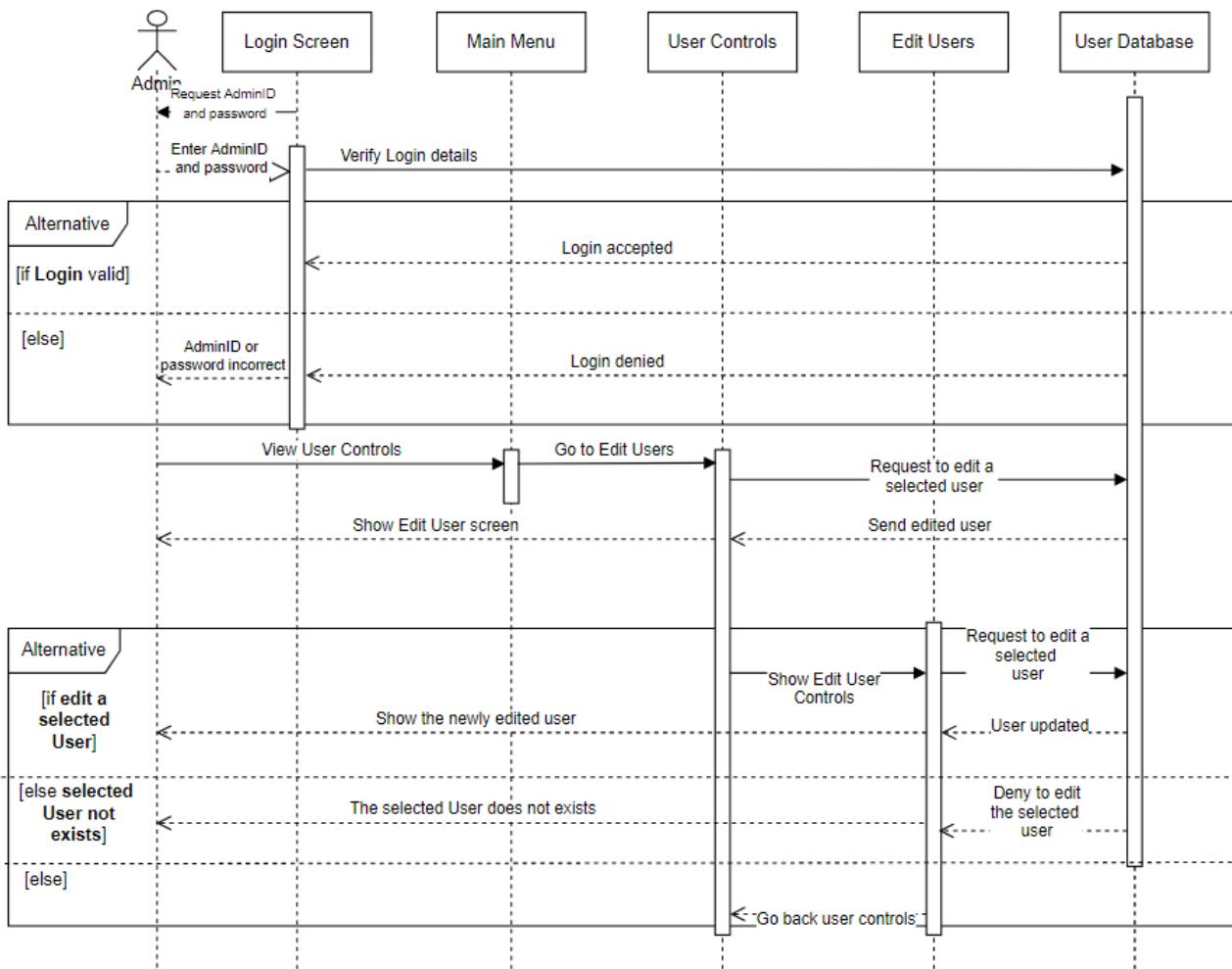


Figure 4.10 Admin's Edit Users Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Edit Users, the admin will navigate to User Controls.
6. In User Control, the admin is able to navigate to Edit Users.

7. *Edit Users Controls will be displayed and the admin able to select data for a user to be updated from the Users database.*
8. *After input, the database returns the edited users data to Edit Users Control to show that the user selected if it exists is updated. If it does not exist, the database informs the admin the user selected does not exist and no action is taken.*
9. *The admin is able to go back to the User Control if finish editing users.*

Edit Food Bank Report

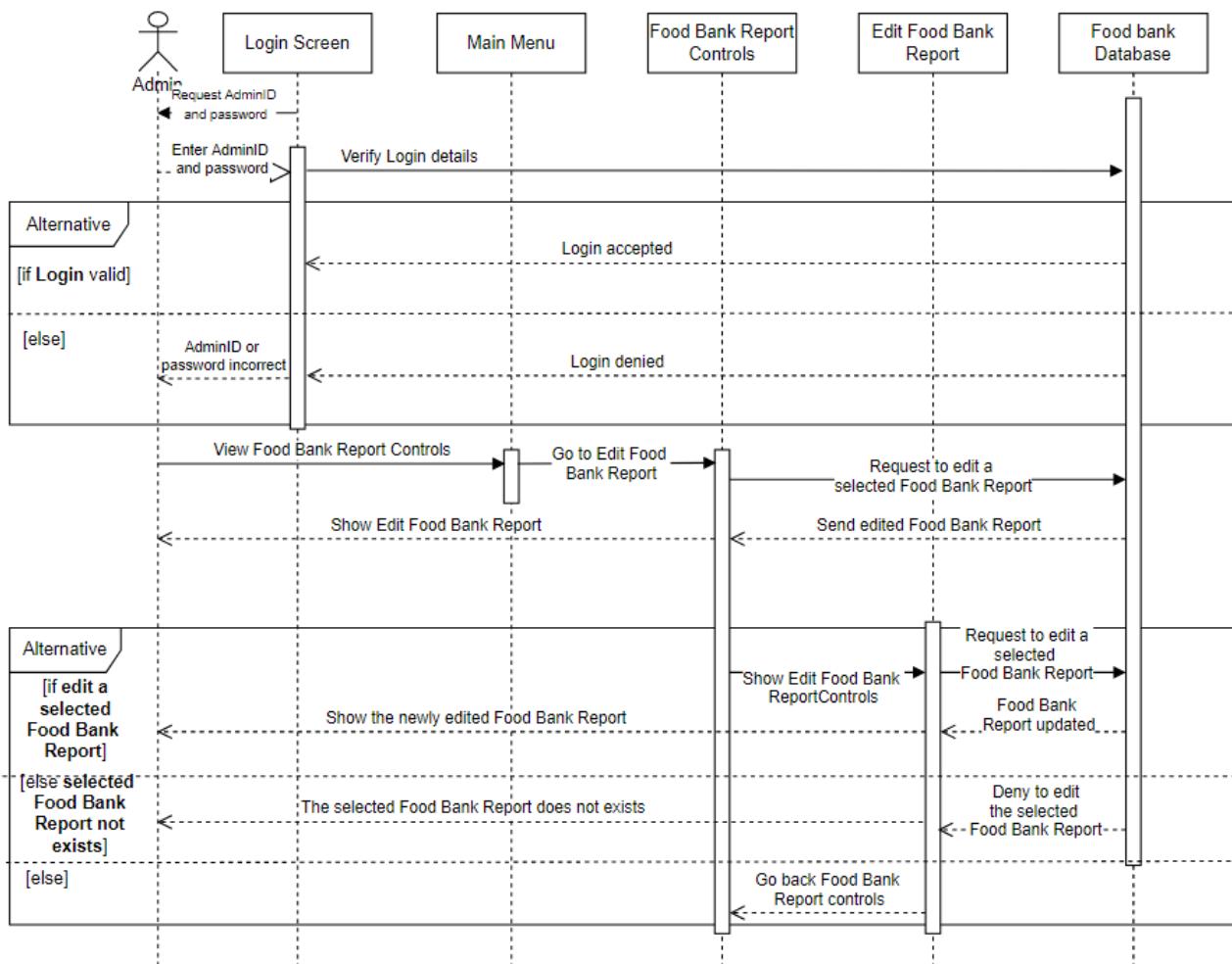


Figure 4.11 Admin's Edit Food Bank Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Edit Food Bank Report, the admin will navigate to Food Bank Report Controls.
6. In Food Bank Report Control, the admin is able to navigate to Edit Food Bank Report.

7. *Edit Food Bank Report Controls will be displayed and the admin able to select data for a report to be updated from the Food Bank Report database.*
8. *After input, the database returns the edited report data to Edit Food Bank Report Control to show that the report selected if it exists is updated. If it does not exist, the database informs the admin the report selected does not exist and no action is taken.*
9. *The admin is able to go back to the Food Bank Report Control if finish editing reports.*

Edit Distribution Location

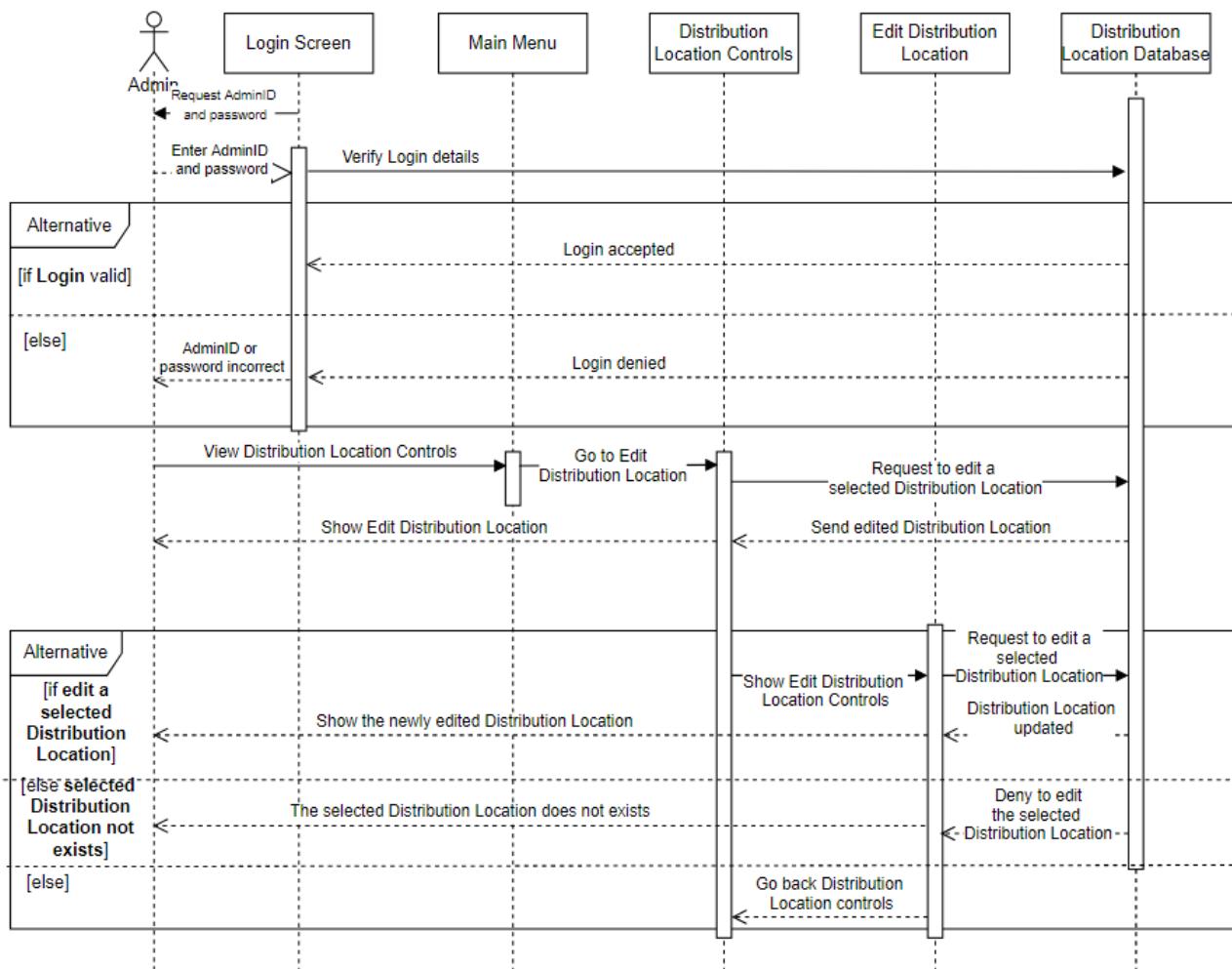


Figure 4.12 Admin's Edit Distribution Location Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Edit Distribution Location, the admin will navigate to Distribution Location Controls.
6. In Distribution Location Control, the admin is able to navigate to Edit Distribution Location.

7. *Edit Distribution Location Controls will be displayed and the admin able to select data for a location to be updated from the Distribution Location database.*
8. *After input, the database returns the edited location data to Edit Distribution Location Control to show that the location selected if it exists is updated. If it does not exist, the database informs the admin the location selected does not exist and no action is taken.*
9. *The admin is able to go back to the Distribution Location Control if finish editing locations.*

Edit Food Categories

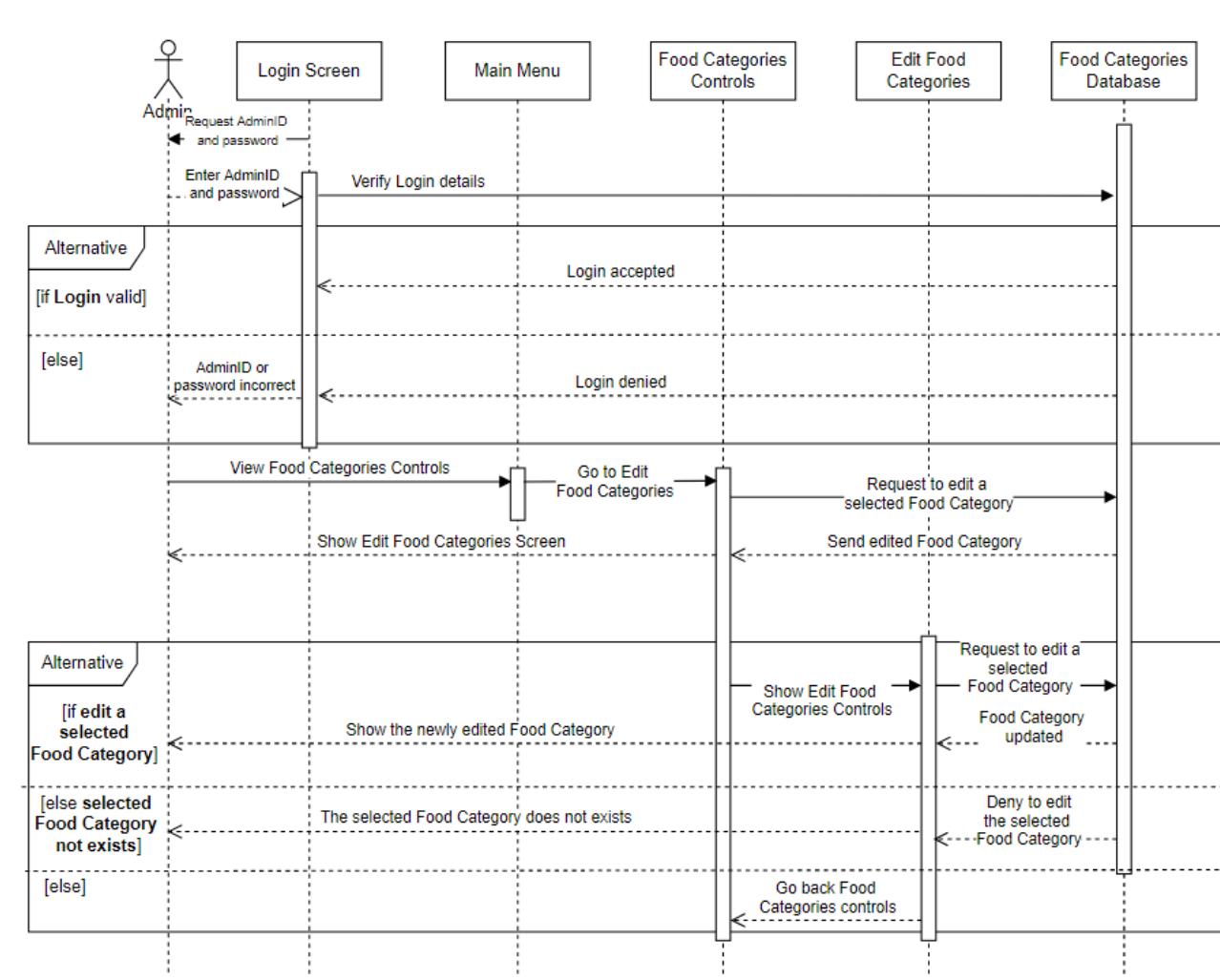


Figure 4.13 Admin's Edit Food Categories Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Edit Food Categories, the admin will navigate to Food Categories Controls.

6. In Food Categories Control, the admin is able to navigate to Food Categories Location.
7. Edit Food Categories Controls will be displayed and the admin able to select data for a category to be updated from the Food Categories database.
8. After input, the database returns the edited category data to Edit Food Categories Control to show that the category selected if it exists is updated. If it does not exist, the database informs the admin the category selected does not exist and no action is taken.
9. The admin is able to go back to the Food Categories Control if finish editing categories.

Find Users

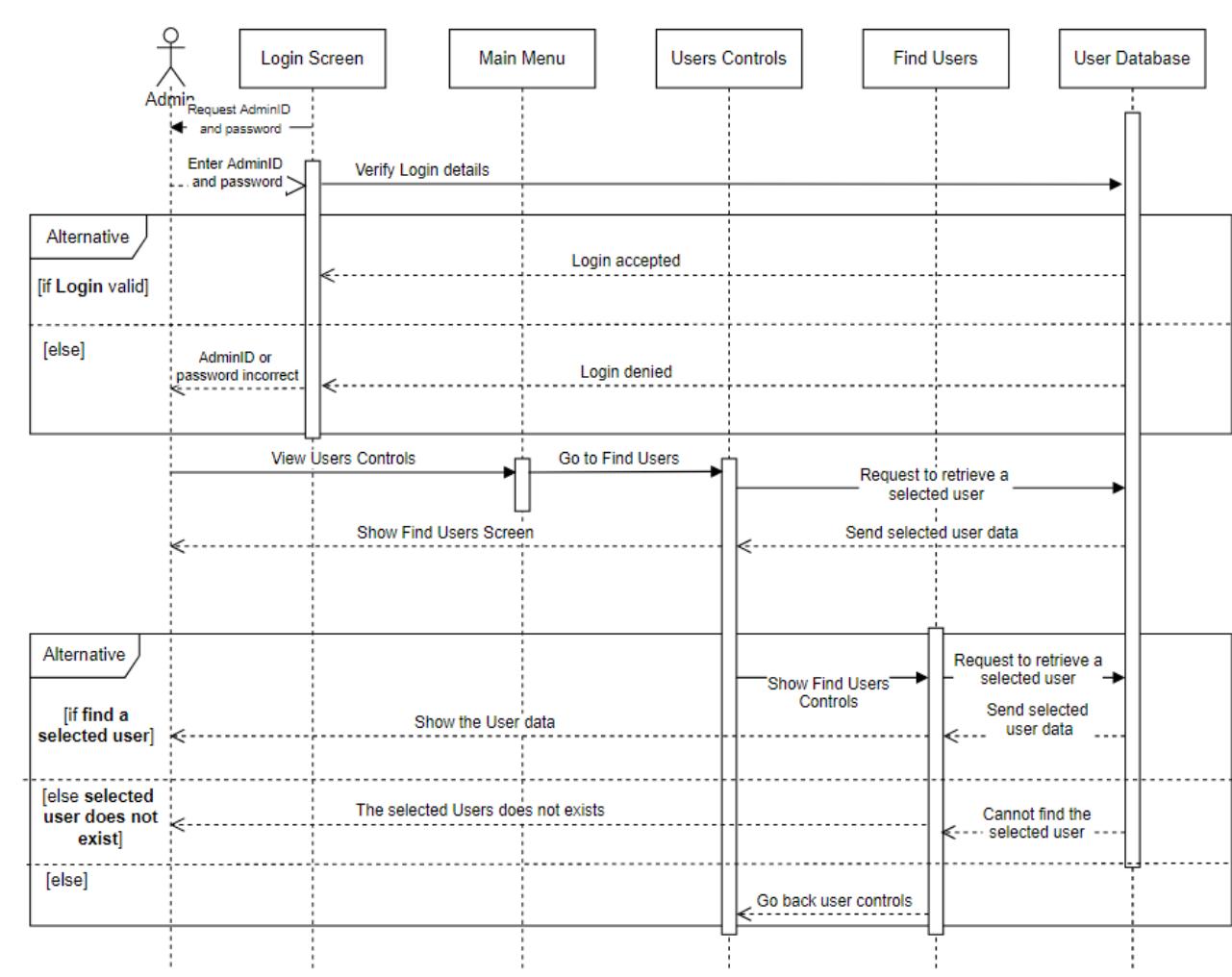


Figure 4.14 Admin's Find Users Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Find Users, the admin will navigate to User Controls.
6. In User Control, the admin is able to navigate to Find Users.

7. *Find Users Controls will be displayed and the admin able to search a user from the Users database.*
8. *The database then returns the user data to Find Users Control to show the user selected data if it exists. If it does not exist, the database informs the admin the user does not exist and no action is taken.*
9. *The admin is able to go back to the User Control if finish searching users.*

Find Food Bank Report

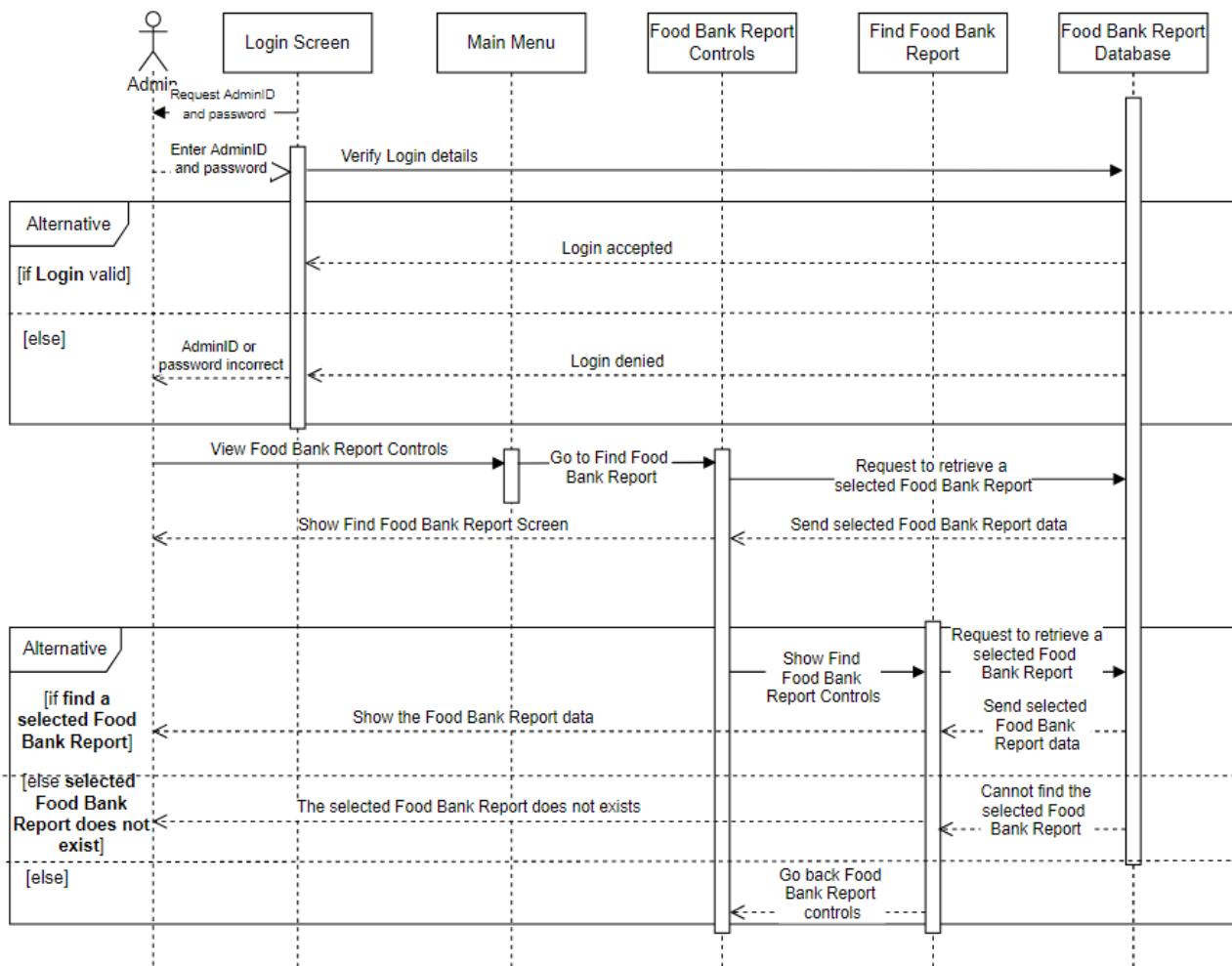


Figure 4.15 Admin's Find Food Bank Report Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Find Food Bank Report, the admin will navigate to Food Bank Report Controls.

6. In Food Bank Report Control, the admin is able to navigate to Find Food Bank Report.
7. Find Food Bank Report Controls will be displayed and the admin able to search a report from the Food Bank Report database.
8. The database then returns the report data to Find Food Bank Report Control to show the report selected data if it exists. If it does not exist, the database informs the admin the report does not exist and no action is taken.
9. The admin is able to go back to the Food Bank Report Control if finish searching reports.

Find Distribution Location

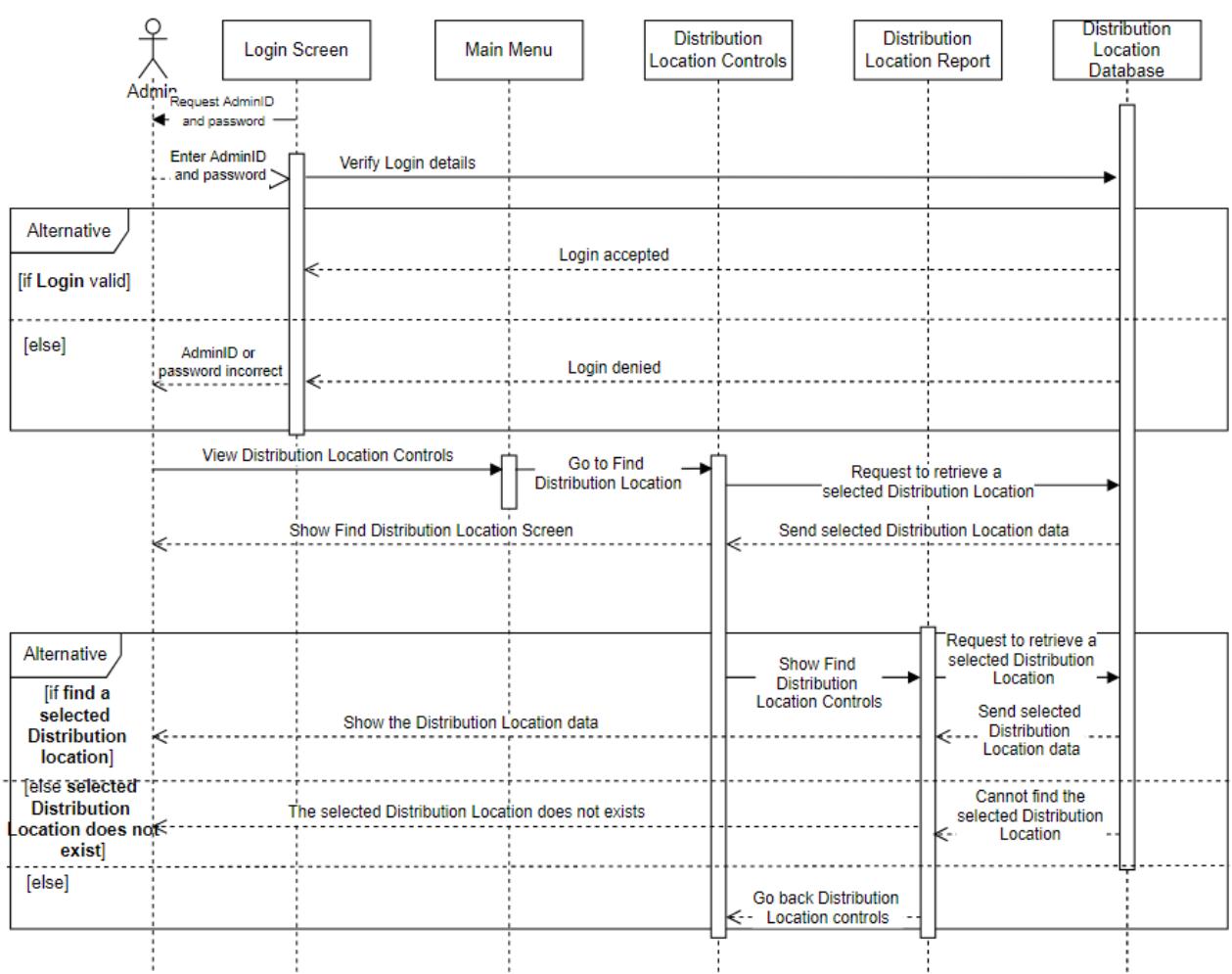


Figure 4.16 Admin's Find Distribution Location Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Find Distribution Location, the admin will navigate to Distribution Location Controls.
6. In Distribution Location Control, the admin is able to navigate to Find Distribution Location.

7. *Find Distribution Location Controls will be displayed and the admin able to search a location from the Distribution Location database.*
8. *The database then returns the location data to Find Distribution Location Control to show the location selected data if it exists. If it does not exist, the database informs the admin the location does not exist and no action is taken.*
9. *The admin is able to go back to the Distribution Location Control if finish searching locations.*

Find Food Categories

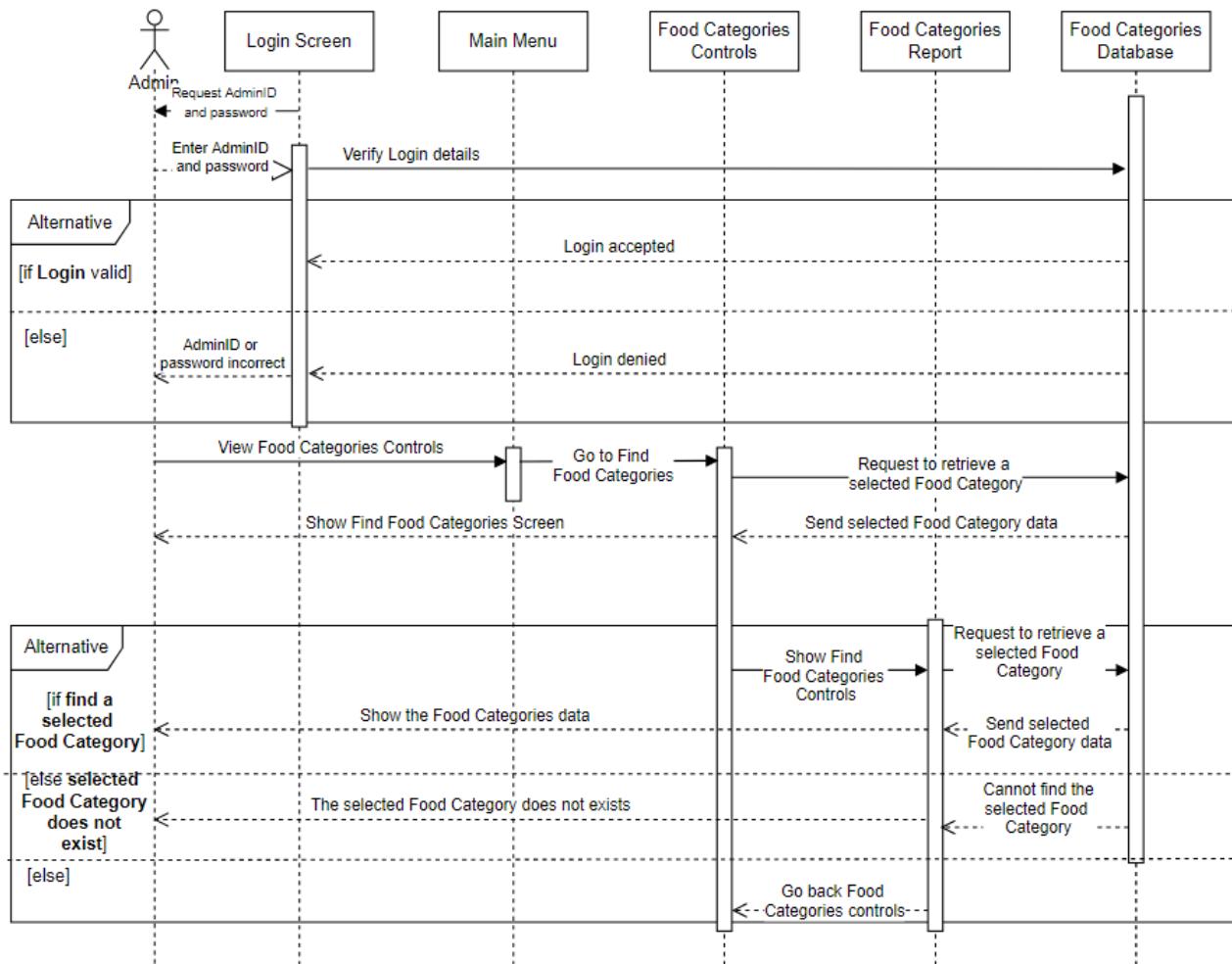


Figure 4.17 Admin's Find Food Categories Sequence Diagram

1. The system will request Admin ID and password.
2. The admin enters their Admin ID and password
3. The system will refer to the user database to search a match from the user input
4. If there is a match, the admin will be redirected to the admin's main menu, otherwise the system will prompt the admin to login again.
5. To Find Food Categories, the admin will navigate to Food Categories Controls.
6. In Food Categories Control, the admin is able to navigate to Find Food Categories.

7. Find Food Categories Controls will be displayed and the admin able to search a category from the Food Categories database.
8. The database then returns the category data to Find Food Categories Control to show the category selected data if it exists. If it does not exist, the database informs the admin the category does not exist and no action is taken.
9. The admin is able to go back to the Food Categories Control if finish searching categories

5 Data Design

1.1 Data Dictionary

TABLE NAME	ATTRIBUTE NAME	CONTENTS	DATA TYPE	FIELD SIZE
User	- userID - password - fName - lName - telPhone - loginStatus - signUpStatus - registerDate	- User identity number - User account password - User first name - User last name - User telephone number - User login status - User sign up status - User account register date	- Char - String - Varchar - Varchar - Char - String - String - Date	- 10 - 20 - 20 - 20 - 10 - 10 - 10 - 10

Admin	- adminID	- Admin identity number	- Char	- 10
Recipient	- dateOfBirth - gender - nationality - address - email	- Date of birth - Gender - Nationality - Address - Email address	- Date - Char - String - Varchar - Varchar	- 10 - 5 - 20 - 100 - 30
Donor	- donorID - email - state - transaction - food	- Donor identity number - Email address - State - Transaction - Food	- Char - Varchar - String - Double - Varchar	- 10 - 30 - 10 - 10 - 20
Distributor	- riderID - dateOfBirth - gender - nationality - email - address - state	- Rider identity number - Date of birth - Gender - Nationality - Email address - Address - State	- Char - Date - Char - String - Varchar - Varchar - String	- 10 - 10 - 5 - 20 - 30 - 100 - 10
Foodbank	- name - state - donors	- Foodbank name - State - Donors	- Varchar - String - String	- 30 - 10 - 10
Menu	- foodName - dateReserved - numFoodAvailable - numFoodReserved - deliveryTime - foodType	- Food name - Date when food reserved - Number of food available - Number of food reserved - Delivery time - Food type	- Varchar - Date - Int - Int - Char - String	- 20 - 10 - 5 - 5 - 10 - 10

Figure 5: Data Dictionary

6 Architecture Design

1.2 Software Architecture

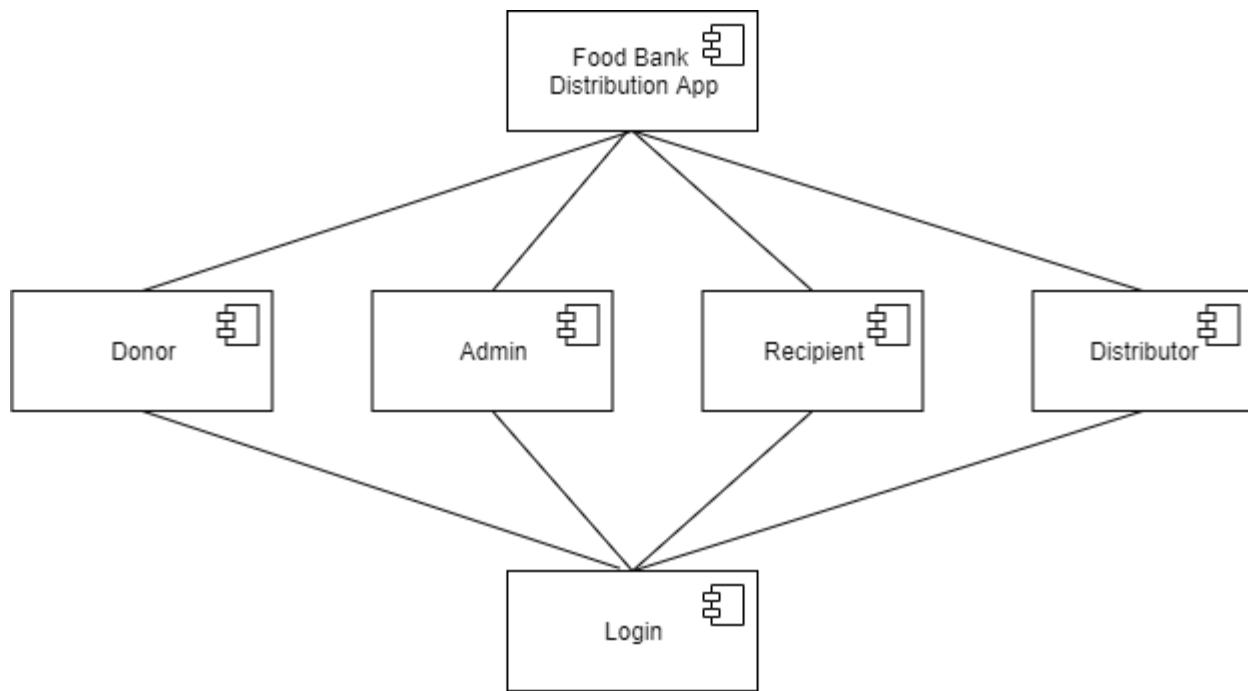


Figure 6 Food Bank Distribution Application's Software Architecture Diagram

1.2.1 Recipient subsystem

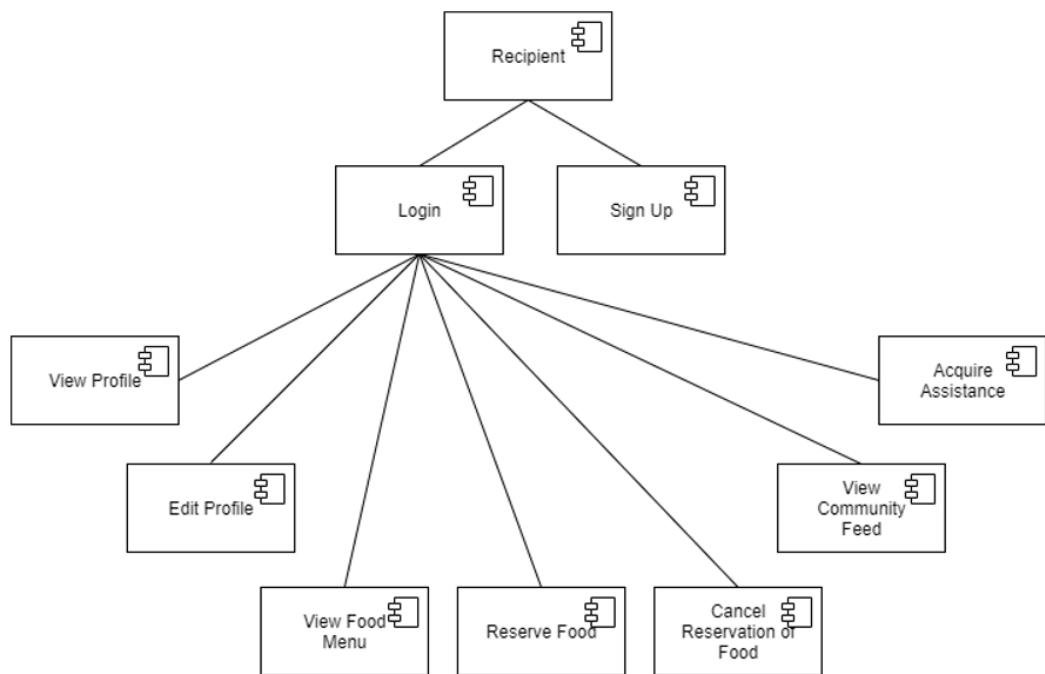


Figure 6.1 Recipient's Software Architecture Diagram

1.2.2 Distributor Subsystem

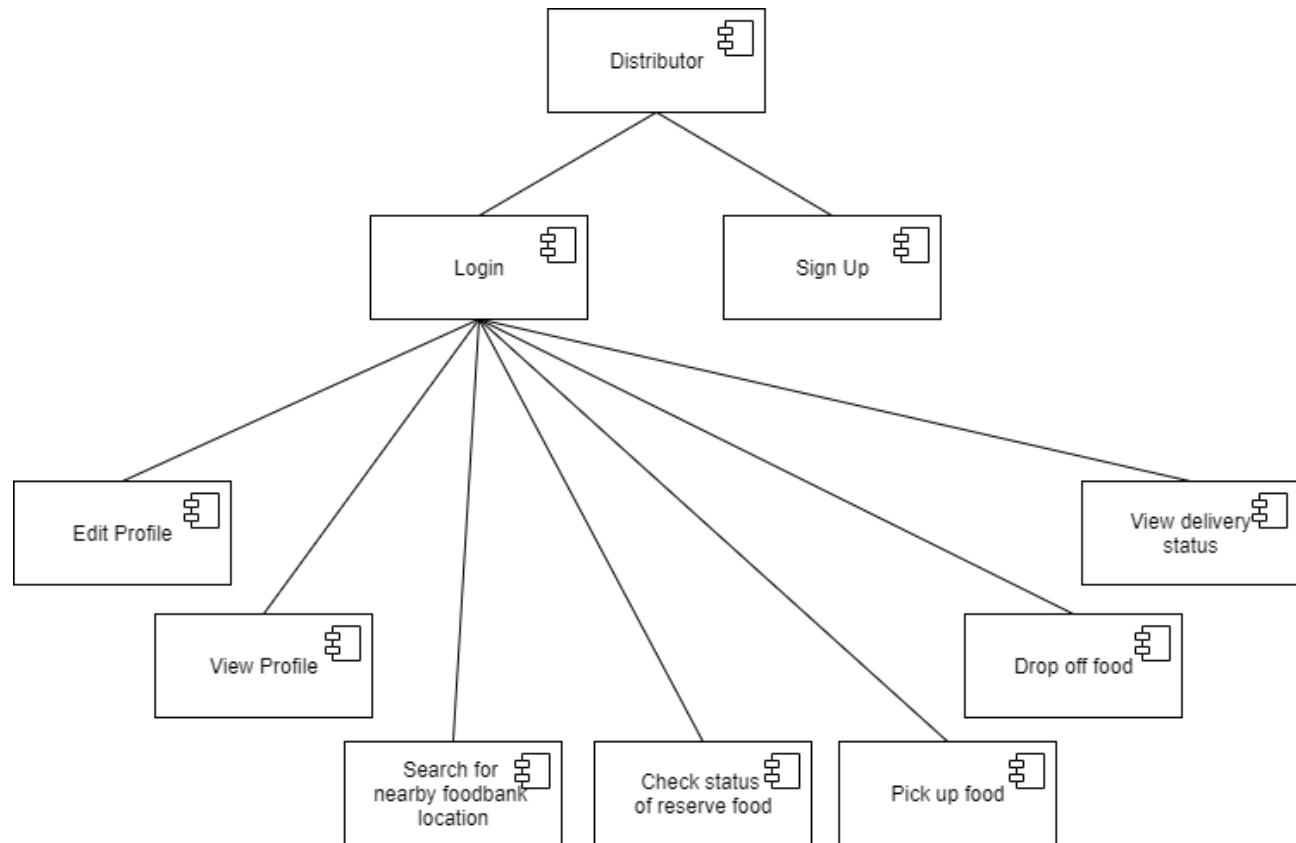


Figure 6.2 Distributor's Software Architecture Diagram

1.2.3 Donor Subsystem

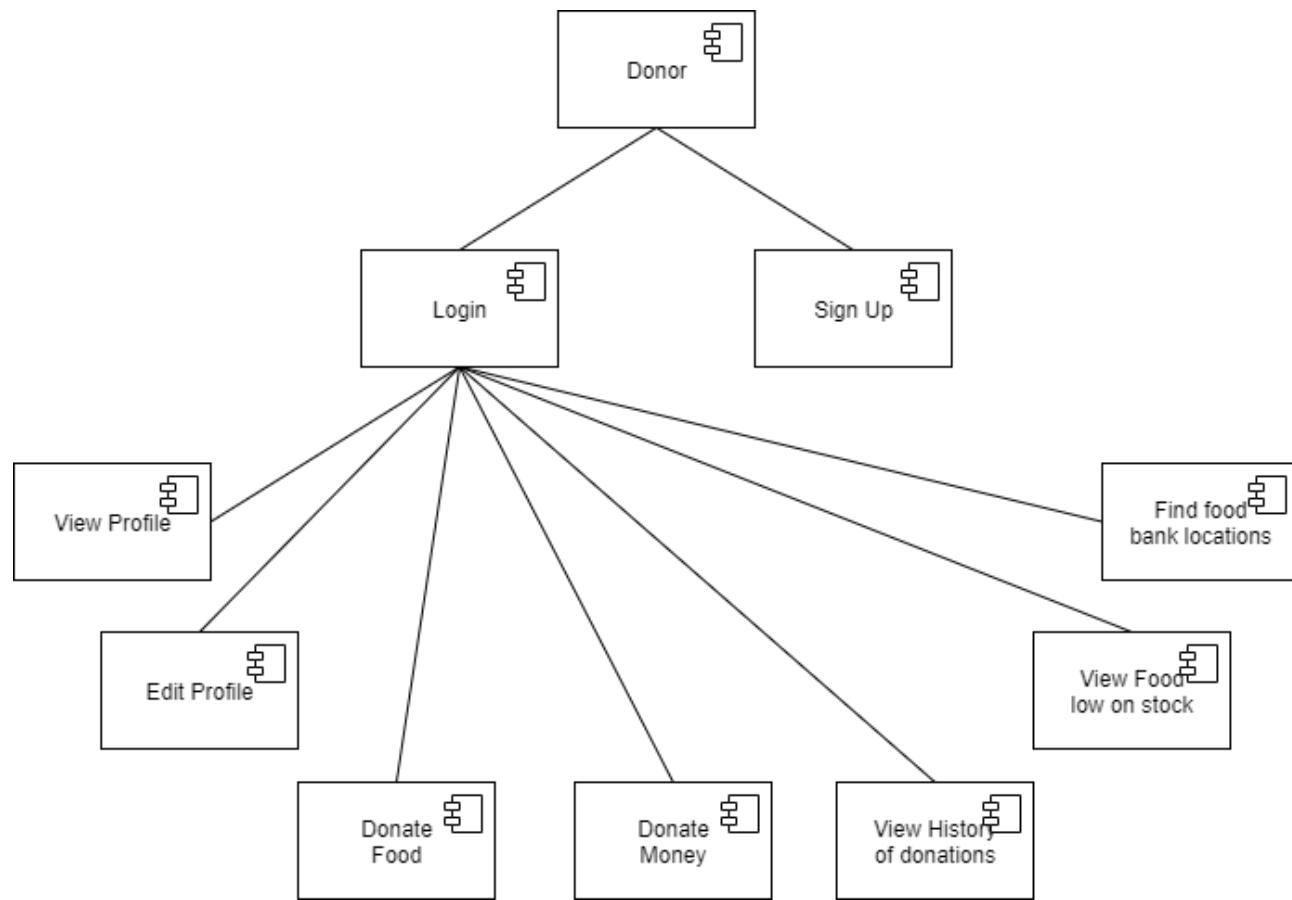


Figure 6.3 Donor's Software Architecture Diagram

1.2.4 Admin Subsystem

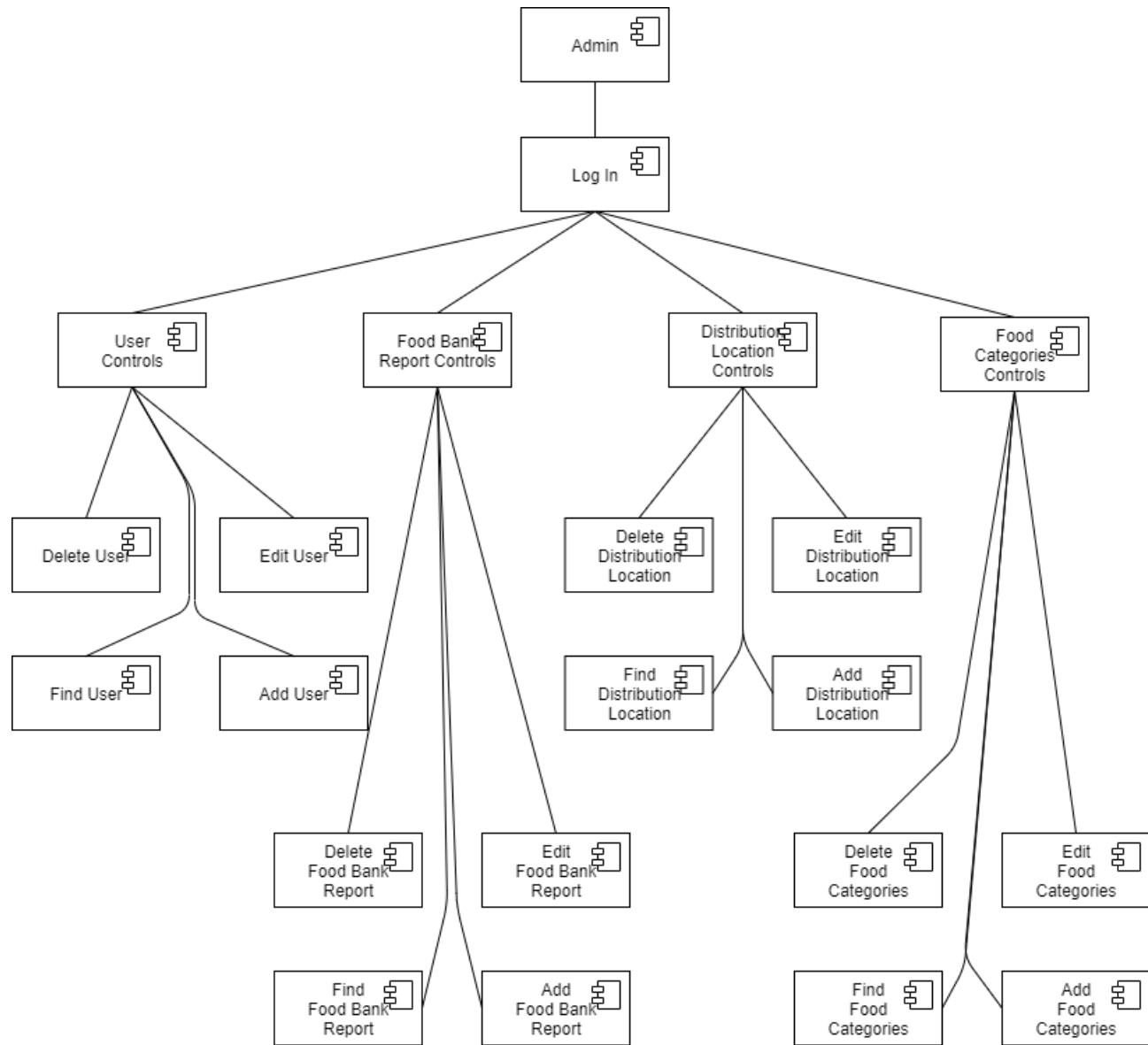


Figure 6.4 Admin's Software Architecture Diagram

7 Interface Design

1.3 Main Screens

4.1a Register Page (Admin, Distributor, Donor, Recipient)

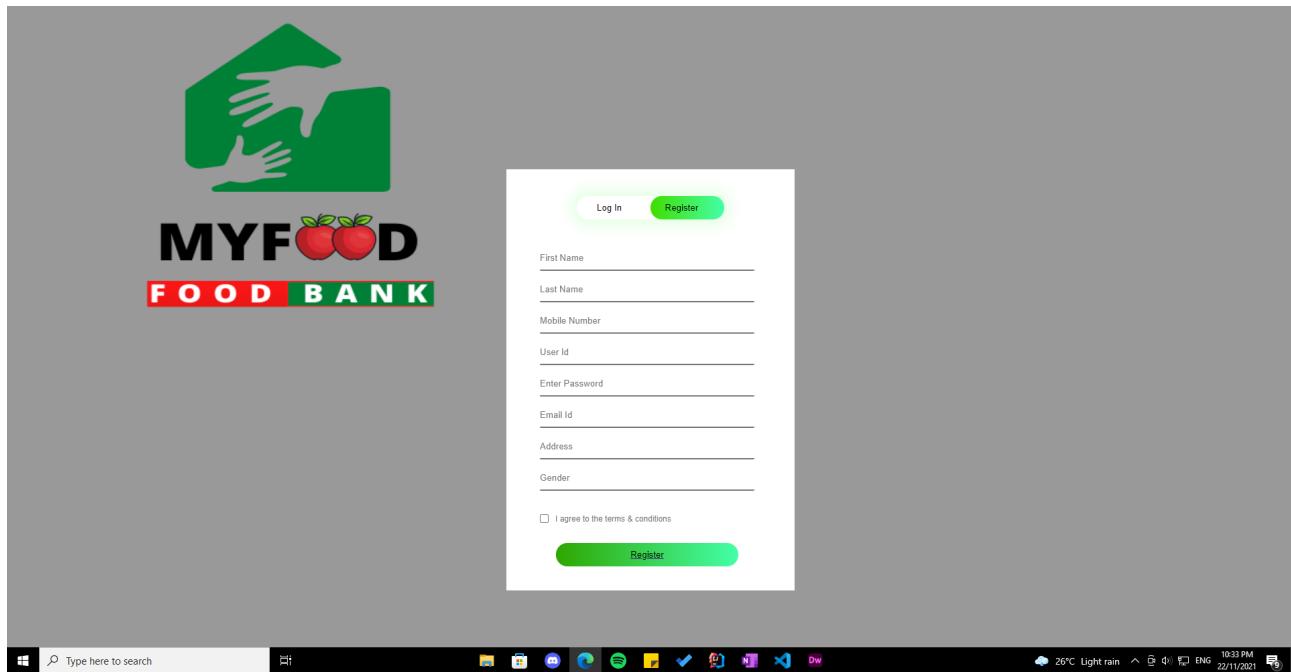


Figure 4.1a User's Register Page User Interface - This UI is used for registering their personal details which consist of Username, First name, Last name, Birth Date, Gender, Nationality, Email, Password, Mobile number, and Home Address.

4.1b Login Page (Admin, Distributor, Donor, Recipient)

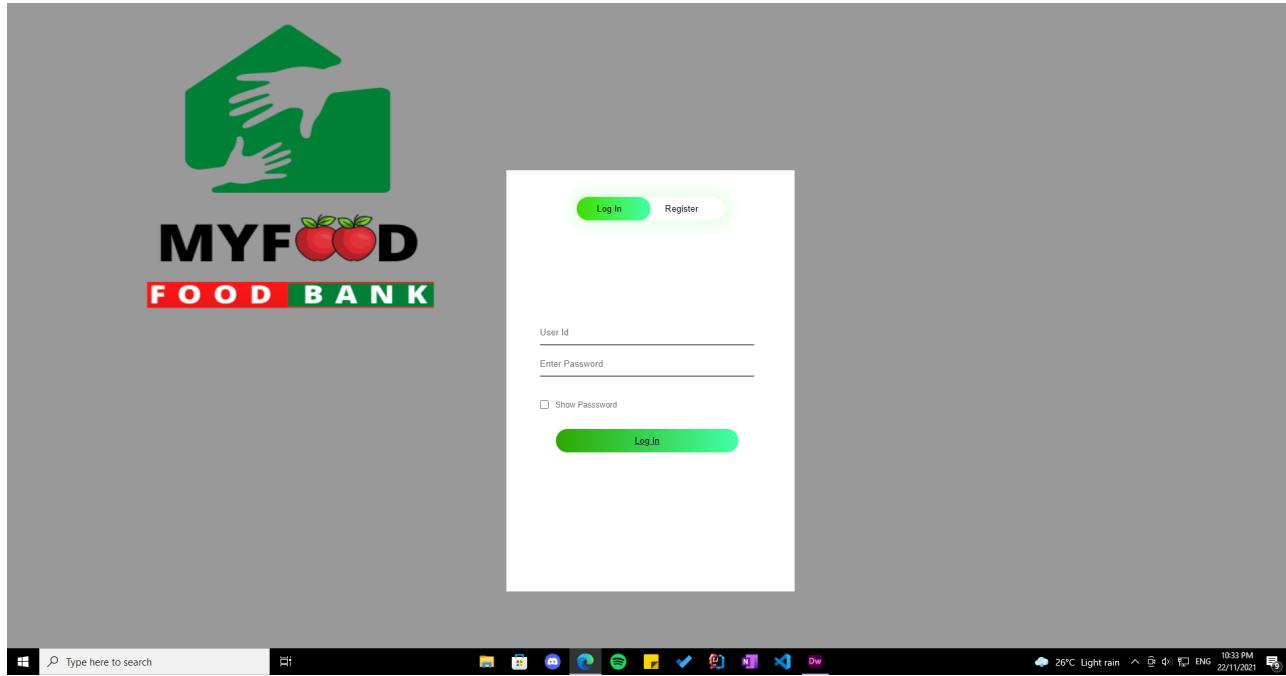


Figure 4.1b User's Login Page User Interface - This UI is used to login into the system

4.1c Profile Page (Admin, Distributor, Donor, Recipient)

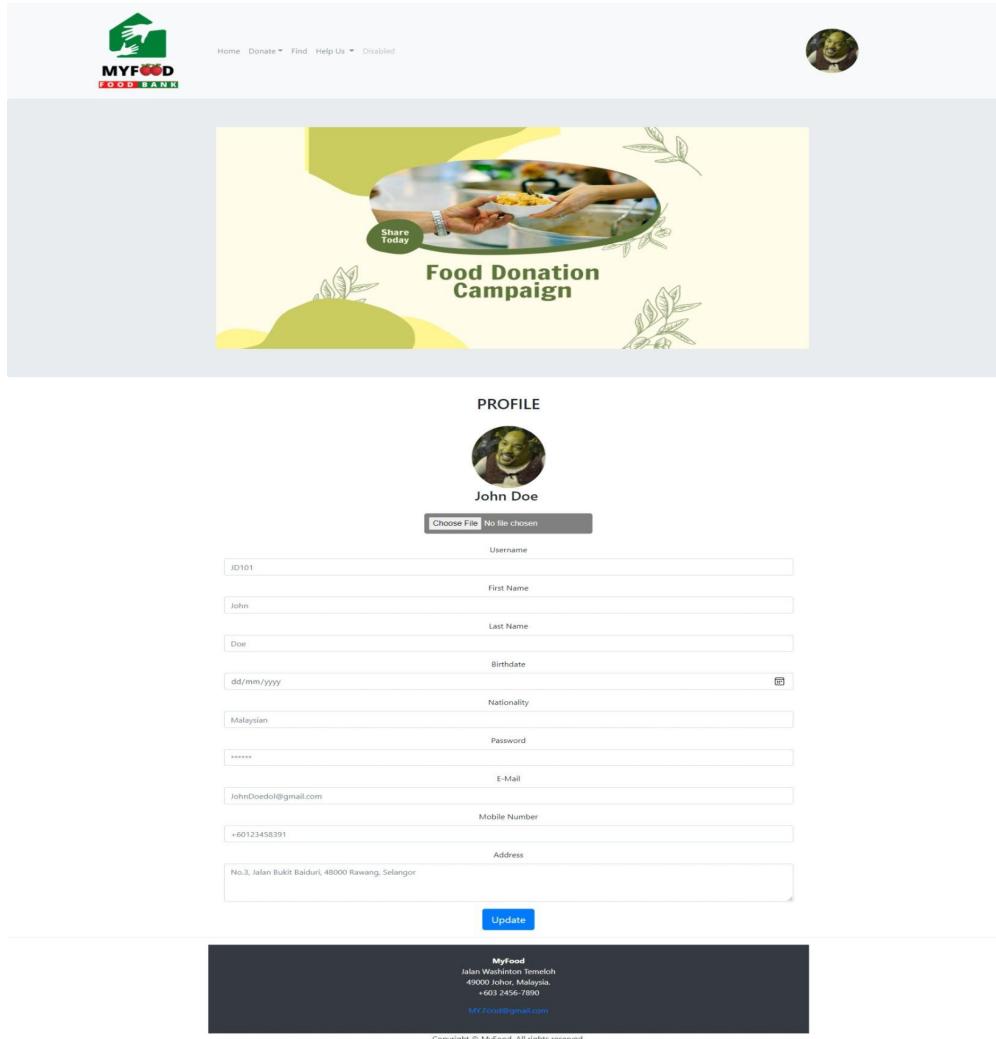


Figure 4.1c User's 'View Profile' and 'Edit Profile' User Interface - This UI is used for viewing their personal details which consist of Username, First name, Last name, Birth Date, Gender, Nationality, Email, Password, Mobile number, and Home Address.

4.2a View Food page (Donor)

The screenshot shows the donor view of the MyFood Food Bank Distribution App. At the top, there is a navigation bar with links: Home, Donate, Find, Help Us, and Disabled. A user profile picture of a person with dark hair is visible. Below the navigation, there is a banner with the text "You can help beat hunger!" and "MyFood for the impoverished". To the right of the banner is an image of a smartphone displaying a grocery bag icon. Below the banner, there is a section titled "FOOD STOCK" with three colored circles indicating stock levels: a green circle for "High Stock", a yellow circle for "Moderate Stock", and a red circle for "Low Stock". The main content area displays a grid of food items categorized by stock level:

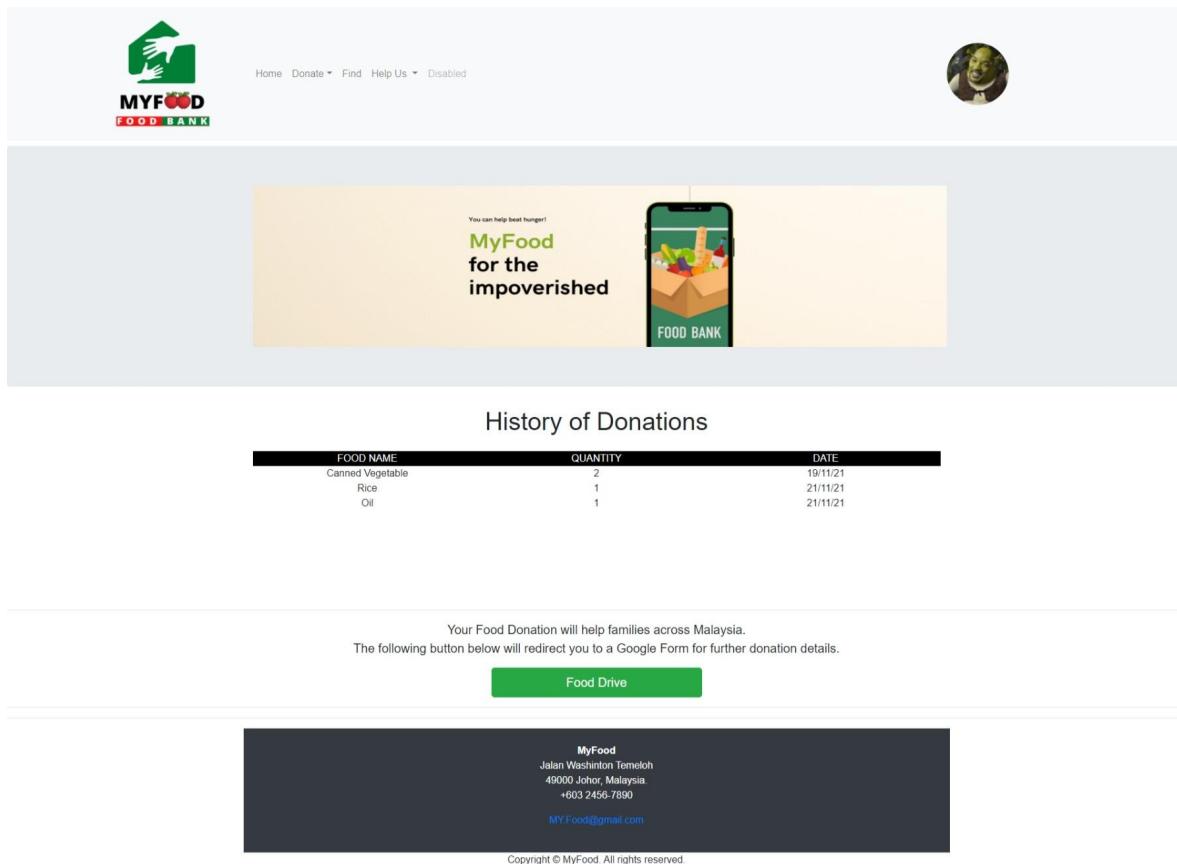
Category	Item	Description
High Stock		Canned Soup Some quick example text to build on the card title and make up the bulk of the card's content.
		Canned Vegetables Some quick example text to build on the card title and make up the bulk of the card's content.
		Rice Some quick example text to build on the card title and make up the bulk of the card's content.
Moderate Stock		Peanut Butter Some quick example text to build on the card title and make up the bulk of the card's content.
		Cooking Oil Some quick example text to build on the card title and make up the bulk of the card's content.
		Salt Some quick example text to build on the card title and make up the bulk of the card's content.
Low Stock		Eggs Some quick example text to build on the card title and make up the bulk of the card's content.
		Maggi Some quick example text to build on the card title and make up the bulk of the card's content.
		Cream Crackers Some quick example text to build on the card title and make up the bulk of the card's content.

At the bottom of the screen, there is a light gray box containing the text: "Your Food Donation will help families across Malaysia. The following button below will redirect you to a Google Form for further donation details." Below this text is a green button labeled "Food Drive".

In the footer, there is contact information for MyFood: "MyFood Jalan Washinton Temeloh 49000 Johor, Malaysia. +603 2456 7890" and an email address "MV.Fmo@gmail.com".

Figure 4.2.a Donor's foods low on stock User Interface - This UI is used for viewing the foods low on stock. They are highlighted in green, yellow and red. The first indicates that there is still an ample amount of food stock, the second indicates that those items are moderately low on stock while the red indicates that it is severely low on stock.

4.2b View history of donations (Donor)



The screenshot shows the 'History of Donations' section of the MyFood app. At the top, there is a navigation bar with the 'MYFOOD FOOD BANK' logo, a user profile picture, and links for 'Home', 'Donate', 'Find', 'Help Us', and 'Disabled'. Below the navigation is a promotional banner for 'MyFood for the impoverished' with a phone icon showing a food box. The main content area is titled 'History of Donations' and contains a table with the following data:

FOOD NAME	QUANTITY	DATE
Canned Vegetable	2	19/11/21
Rice	1	21/11/21
Oil	1	21/11/21

Below the table, there is a message: 'Your Food Donation will help families across Malaysia.' followed by 'The following button below will redirect you to a Google Form for further donation details.' A green 'Food Drive' button is present. At the bottom, there is contact information for 'MyFood' and a copyright notice: 'Copyright © MyFood. All rights reserved.'

Figure 4.2.b Donor's history of donations User Interface - This UI is used for viewing the donations the donor has made to the food bank.

4.2c Donate money (Donor)

The screenshot shows the MyFood Food Bank website interface. At the top, there is a navigation bar with links: Home, Donate, Find, Help Us, and Disabled. A user profile picture of a man is visible on the right.

The main content area features a banner with the text "You can help beat hunger!" and "MyFood for the impoverished". Below the banner is a smartphone displaying the MyFood app interface with a food bank box icon.

Under the banner, there is a "Payment" section showing payment method icons for Master Card, Visa, and FPX.

Below the payment section is a "Online Donation" section with three buttons for "Donate RM10", "Donate RM20", and "Donate RM50", each with a "Donate" button.

A note below these buttons states: "Once you click on the button you will redirect to payment gateway." A note above the "Manual Donation" section states: "*Note : Only donation RM100.00 & ABOVE will get actual receipt from us."

The "Manual Donation" section contains information for donors to approach Maybank branches or make online transfers, along with a Maybank account number: 5660 1063 0584. It also includes a "TAX EXEMPTION APPLICATION" section with a note about filling out a form and a "Donation Form" button.

At the bottom, there is a "Contact" section with two staff profiles:

- Kamalan**: Profile picture, phone number +6012-456-7890, email rajini.kamal@gmail.com
- Madame Curie**: Profile picture, phone number +6011-456-7890, email isotope.Ra@gmail.com

The footer contains the MyFood logo, address (Jalan Washinton Temeloh, 49000 Johor, Malaysia), phone number +603 2456-7890, email MY.Food@gmail.com, and a copyright notice: "Copyright © MyFood. All rights reserved."

Figure 4.2.c Donor's donate money User Interface - This UI is used for making a donation in terms of cash to the food bank. There are 5 options to choose from. Four of them are amount presets while the other is a custom amount that the Donor can key in.

4.2d Find food bank locations (Donor)

Figure 4.2.d Donor's find foodbank Interface - This UI is used to find the nearest food bank by comparing it with the donor's state. This shows the food bank in the same state as the Donor

4.3. Admin Menu (Admin)

Welcome

This is an admin page for the Food Bank App. Admin login is required to access the controls

[Log Out and Exit](#)

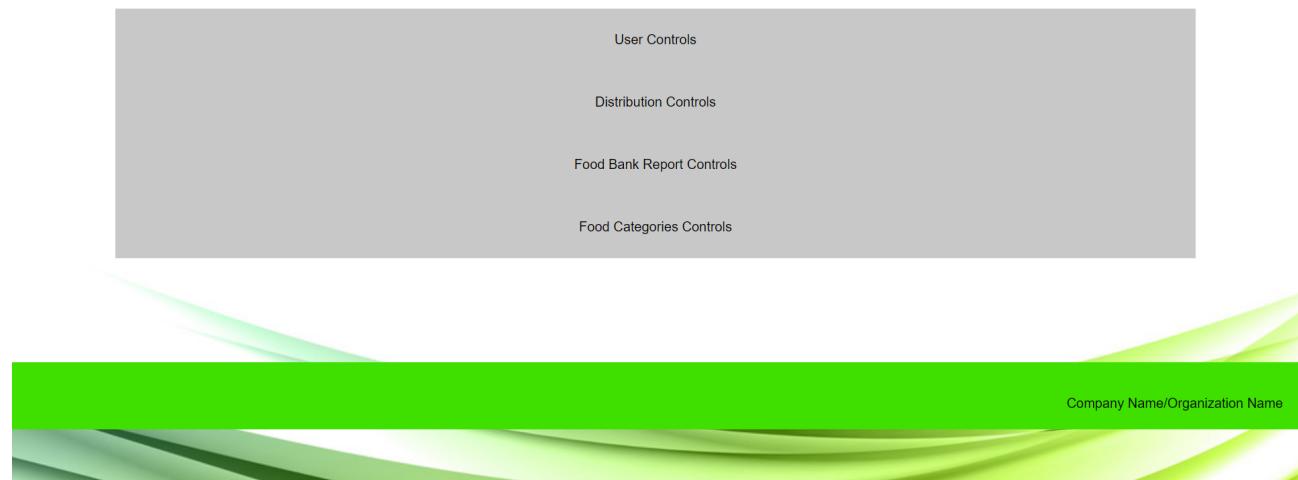


Figure 4.3 Admin's Menu User Interface

4.3a Add User (Admin)

Inserted User	
User ID:	45542
First Name:	John
Last Name:	Kendall
Phone:	555539472
Password:	scott765
E-Mail:	jkendall@gmail.com
Address:	23 7th Street, New York, USA
Gender:	Male

Figure 4.3.a Admin's Add User Interface - This UI is used to add users into the system

4.3b Find User (Admin)

Find Users

Search by:
User ID

First Name

Last Name

Phone Number

E-Mail

Address

Gender
 Male
 Female

Search Condition
 OR
 AND

Submit

User ID	First Name	Last Name	Phone Number	E-Mail	Address	Password	Gender
2537	Tiff	Mikhail	384691634	moskvich8723@kaka.ru	23 Kraag Street, Belarusia, USSR	rahn9283	Male
8427	Tom	Man	7237453	apple2@gmail.com	6 Baker Street, London, UK	powerdrill1938	Male
9624	Terry	Dave	94752542	claseenoman@gmail.com	Winter Park, Washington, USA	templedos	Male

Company Name/Organization Name

Figure 4.3.b Admin's Find User Interface - This UI is used to find users in the system

4.3c Edit User (Admin)

Edit Users

Search by:
User ID
4737

Change (Leave empty if no change is needed):
First Name
Last Name
Phone Number
Password
E-Mail
Address

Gender
 Male
 Female

Change info for user 4737

User ID	First Name	Last Name	Phone Number	E-Mail	Address	Password	Gender
4737	Muhd	Ali	012483464	ali18362@gmail.com	12 Jalan Abu, Selangor, Malaysia	aaa380ds	Male

Company Name/Organization Name

Figure 4.3.c Admin's Edit User Interface - This UI is used to edit users information in the system

4.3c.i Delete User (Admin)

Delete Users

Delete by:
User ID
1983

Deleted User ID: 1983

Company Name/Organization Name

Figure 4.3c.i User Control (Delete)

4.3d Add Food Bank report (Admin)

The screenshot displays the 'Add Food Bank Report' interface. On the left, a sidebar menu includes 'Add' (highlighted in green), 'Find', 'Edit', and 'Delete'. The main form has fields for 'Food Category' (set to 'Canned Food'), 'Distribution Location' (set to 'Putrajaya'), and 'Quantity' (set to '20'). A 'Submit' button is present. Below the form, a message box displays the inserted report details: 'Inserted Report', 'Report ID: R6247', 'Food Category: Canned Food', 'Distribution Location: Putrajaya', and 'Quantity: 20'. The background features a green header bar with the placeholder 'Company Name/Organization Name'.

Figure 4.3.d Admin's Add Food Bank Report Interface - This UI is used to add a food report for distribution

4.3e Find Food Bank report (Admin)

The screenshot displays the 'Find Food Bank Report' interface. On the left, there is a vertical sidebar with the 'MYFOOD FOOD BANK' logo and buttons for 'Add', 'Find' (which is highlighted in green), 'Edit', and 'Delete'. The main area has a title 'Find Food Bank Report' and a sub-section 'Search by: Report ID'. Below this are fields for 'Food Category' (set to 'Canned Food'), 'Distribution Location' (set to 'Klang valley'), and 'Quantity'. There is also a section for 'Search Condition' with radio buttons for 'OR' and 'AND', and a 'Submit' button. At the bottom, a table lists two reports:

Report ID	Food Category	Distribution Location	Quantity
R5723	Canned Food	Klang Valley	34
R4626	Canned Food	Klang Valley	41

Figure 4.3.e Admin's Find Food Bank Report Interface - This UI is used to query a food report

4.3f Edit Food Bank Report (Admin)

The screenshot displays the 'Edit Food Bank Report' interface. On the left, a sidebar menu includes 'Add', 'Find', 'Edit' (which is highlighted in green), and 'Delete'. The main area shows a modal dialog with the title 'Edit Food Bank Report'. Inside the modal, there is a search bar labeled 'Search by: Report ID' containing 'R2783'. Below this, a section titled 'Change (Leave empty if no change is needed):' contains dropdown menus for 'Food Category' (set to 'Spices') and 'Distribution Location' (set to 'Putrajaya'). A 'Quantity' input field is also present. A 'Submit' button is at the bottom of the modal. In the background, a table titled 'Change info for Report R2783' is visible, showing the same data: Report ID R2783, Food Category Spices, Distribution Location Putrajaya, and Quantity 40. The entire interface is set against a light blue background with green decorative waves at the bottom.

Report ID	Food Category	Distribution Location	Quantity
R2783	Spices	Putrajaya	40

Company Name/Organization Name

Figure 4.3.f Admin's Edit Food Bank Report Interface - This UI is used to edit a food bank report

4.3f.a Delete Food Bank Report(Admin)

The screenshot shows a web-based application interface for managing food bank reports. On the left, there is a sidebar with a logo for "MYFOOD FOOD BANK" featuring a green house-like shape with a hand icon. Below the logo are four menu options: "Add", "Find", "Edit", and "Delete", with "Delete" being highlighted in a green bar. The main content area has a title "Delete Food Bank Report". A form field labeled "Report ID" contains the value "R6427". Below the form is a green "Submit" button. To the right of the main content area is a "Back" link. At the bottom of the page, there is a green footer bar with the text "Company Name/Organization Name".

Figure 4.3f.a Food Bank Control (Delete)

4.3g Add Food Bank (Admin)

The screenshot shows the 'Add Distribution Location' form. On the left, there is a sidebar with the 'MYFOOD FOOD BANK' logo and buttons for 'Add', 'Find', 'Edit', and 'Delete'. The main form has fields for 'Distribution Location Name' (Putrajaya), 'Operating Hours' (Start: 09:00 AM - End: 09:00 PM), and 'Address' (12 Presint 15, Putrajaya, Malaysia). A green 'Submit' button is at the bottom. Below the form, a message box displays the inserted location details: Location ID: L3798, Distribution Location Name: Putrajaya, Operating Hours: 9:00 AM - 9:00 PM (12 Hours), and Address: 12 Presint 15, Putrajaya, Malaysia. At the top right of the main area, there is a 'Back' link.

Back

Add Distribution Location

Distribution Location Name

Putrajaya

Operating Hours

Start 09:00 AM ⏺ - End 09:00 PM ⏺

Address

12 Presint 15, Putrajaya, Malaysia

Submit

Inserted Distribution Location
Location ID: L3798
Distribution Location Name: Putrajaya
Operating Hours: 9:00 AM - 9:00 PM (12 Hours)
Address: 12 Presint 15, Putrajaya, Malaysia

Company Name/Organization Name

Figure 4.3.g Admin's Add Food Bank Interface - This UI is used to add food banks into the system

4.3h Find Food Bank (Admin)

Find Distribution Location

Search by:
Distribution Location ID

Distribution Location Name

K%

Operating Hours
Start - End

Address

Search Condition
 OR
 AND

Submit

Distribution Location ID	Distribution Location Name	Start Hours	End Hours	Operating Hours (Hours)	Address
L8346	Klang	8:00 AM	8:00 PM	12	Klang, Malaysia
L2875	Kota Bharu	8:00 AM	8:00 PM	12	Kota Bharu, Malaysia
L7621	Kuala Lumpur	9:00 AM	9:00 PM	12	Kuala Lumpur, Malaysia

Company Name/Organization Name

Figure 4.3.h Admin's Find Food Bank Interface - This UI is used to find food banks that are in the system. You also have an option to update it as well

4.3i Edit Food Bank (Admin)

The screenshot shows the 'Edit Distribution Location' interface. On the left, there is a sidebar with the 'MYFOOD FOOD BANK' logo and buttons for Add, Find, Edit (which is highlighted in green), and Delete. The main area has a title 'Edit Distribution Location' and a search bar with 'L3275'. Below it, there is a field for 'Distribution Location Name' which is empty. Under 'Operating Hours', it shows 'Start [... - End] 09:00 PM' and an 'Address' field which is also empty. A 'Submit' button is at the bottom. In the background, a preview table titled 'Change info for Distribution Location L3275' is visible, showing the current data: Distribution Location ID L3275, Distribution Location Name Kuching, Start Hours 8:00 AM, End Hours 9:00 PM, Operating Hours (Hours) 13, and Address Kuching, Malaysia. The entire interface is set against a green decorative background.

Distribution Location ID	Distribution Location Name	Start Hours	End Hours	Operating Hours (Hours)	Address
L3275	Kuching	8:00 AM	9:00 PM	13	Kuching, Malaysia

Company Name/Organization Name

Figure 4.3.i Admin's Edit Food Bank Interface - This UI is used to edit food banks that are in the system

4.3i.a Delete Food Bank (Admin)

The screenshot shows a mobile application interface for managing food bank locations. On the left, a vertical sidebar has a logo at the top followed by 'Add', 'Find', 'Edit', and a green 'Delete' button. The main content area has a title 'Delete Distribution Location'. Below it is a form field labeled 'Disitribution Location ID' containing 'L2467', with a green 'Submit' button below it. A success message 'Deleted Distribution Location ID: L2467' is displayed in a box. In the bottom right corner of the screen, there is a placeholder 'Company Name/Organization Name'.

Figure 4.3i.a Food Bank (Delete)

4.3i.b Food Categories Controls (Add)

The screenshot displays the 'Add Food Categories' screen of the MYFOOD FOOD BANK application. On the left, a sidebar menu includes 'Add' (highlighted in green), 'Find', 'Edit', and 'Delete'. The main area has a title 'Add Food Categories' and a sub-section for 'Food Category Name' containing a text input field with the value 'Dry Food'. A green 'Submit' button is positioned below the input field. To the right, a message box shows the confirmation: 'Inserted Food Category', 'Category ID: F8732', and 'Food Category Name: Dry Food'. At the top right of the main area is a 'Back' link. A decorative green wavy pattern is at the bottom.

Food Category Name
Dry Food

Submit

Inserted Food Category
Category ID: F8732
Food Category Name: Dry Food

Back

Company Name/Organization Name

Figure 4.3i.b Food Categories Control (Add)

4.3i.b Food Categories Control (Find)

Back

Find Food Categories

Search by:
Food Category ID
F8732

Food Category Name

Submit

Category ID	Food Category Name
F8732	Dry Food

Company Name/Organization Name

Figure 4.3i.c Food Categories Control (Find)

4.3i.d Food Categories Controls (Edit)

The screenshot shows the MYFOOD FOOD BANK application interface. On the left, there is a sidebar with a logo featuring a hand holding a bag, and menu options: Add, Find, **Edit**, and Delete. The main area has a title "Edit Food Categories". It includes a search bar for "Food Category ID" containing "F8732", a field for "Food Category Name" containing "Instant Food", and a "Submit" button. To the right, a "Back" link is visible. A modal dialog titled "Change Info Category F8732" is displayed, showing a table with one row:

Category ID	Food Category Name
F8732	Instant Food

At the bottom of the application window, there is a green decorative footer bar with the placeholder text "Company Name/Organization Name".

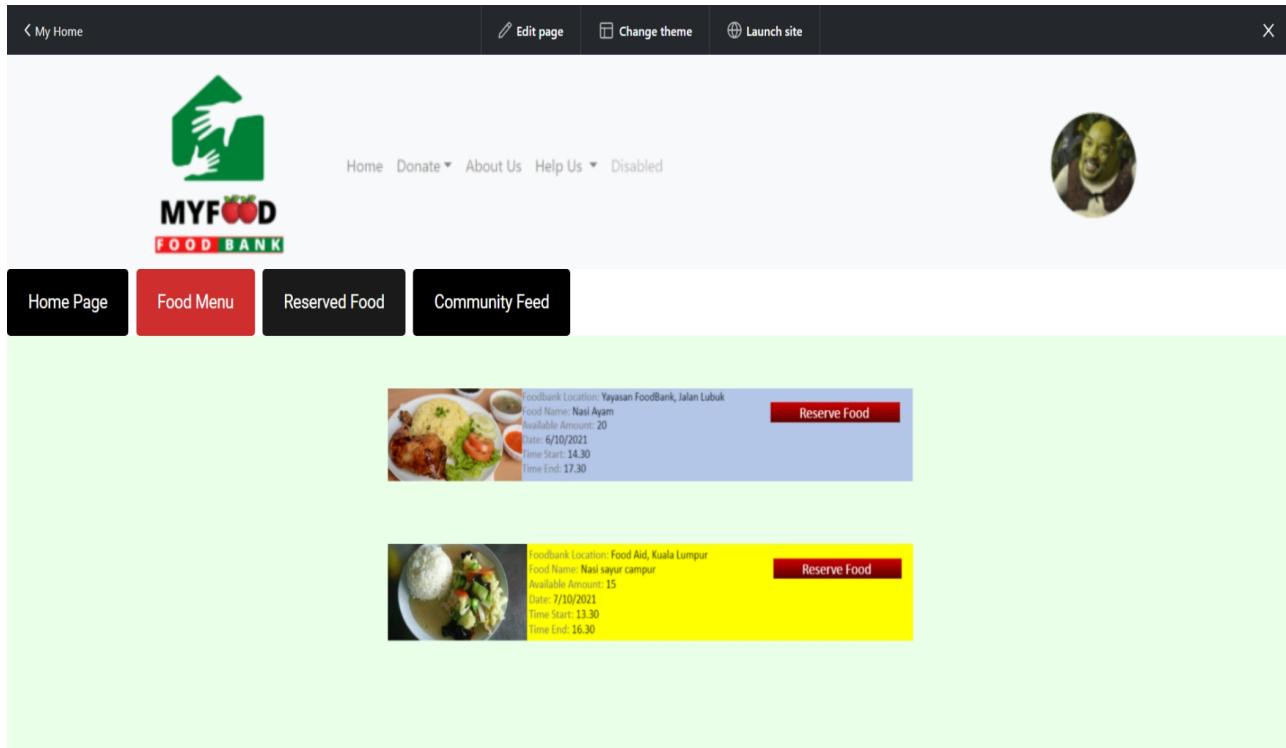
Figure 4.3i.d Food Categories Control (Edit)

4.3i.e Food Categories Controls (Delete)

The screenshot displays a user interface for deleting a food category. On the left, there is a sidebar with a logo for "MYFOOD FOOD BANK" and buttons for "Add", "Find", "Edit", and "Delete". The main area has a title "Delete Food Categories" and a form with a text input field containing "F8732" and a "Submit" button. Below the form, a message states "Deleted Category ID: F8732". At the bottom right, there is a green banner with the placeholder text "Company Name/Organization Name".

Figure 4.3i.e Food Categories Control (Delete)

4.4a View Food Menu (Recipient)



The screenshot shows the MYFOOD FOOD BANK website interface. At the top, there is a navigation bar with links for 'Edit page', 'Change theme', 'Launch site', and a user profile picture of Shrek. Below the navigation bar is the MYFOOD logo featuring two hands holding a green heart. The main menu includes 'Home Page' (black), 'Food Menu' (red, currently selected), 'Reserved Food' (black), and 'Community Feed' (black). The 'Food Menu' section displays two food items:

- Nasi Ayam**: Located at YAYASAN FoodBank, Jalan Lubuk. Available amount: 20. Date: 6/10/2021. Time Start: 14.30. Time End: 17.30. Includes a 'Reserve Food' button.
- Nasi sayur campur**: Located at Food Aid, Kuala Lumpur. Available amount: 15. Date: 7/10/2021. Time Start: 13.30. Time End: 16.30. Includes a 'Reserve Food' button.

At the bottom, there is a footer with contact information: MyFood, Jalan Washinton Temeloh, 49000 Johor, Malaysia, +603 2456-7890, and email MY.Food@gmail.com. It also includes links for 'Customise', 'Edit', 'Statistics', and '...'. The footer also states 'Copyright © MyFood. All rights reserved.'

Figure 4.4a Recipient's 'View Food Menu' Interface - This Interface is used for viewing all the food that they offer and that is available for deliveries with all of the food information related transactions such as the food name, foodbank location, Date, Range of time for the food delivery, and remaining food available for reservation. It also allows them to select the food that they wanted to reserve from all the food that is available at the specific period of time.

4.4b Reserve Food (Recipient)

The screenshot shows a WordPress website for 'MYFOOD FOOD BANK'. At the top, there is a navigation bar with links: 'Edit page', 'Change theme', 'Launch site', and a user profile picture of Shrek. Below the header, the 'MYFOOD FOOD BANK' logo is displayed. A horizontal menu bar includes 'Home Page', 'Food Menu' (which is highlighted in red), 'Reserved Food', and 'Community Feed'. The main content area features a large image of a meal (Nasi Ayam) with text overlaying it. The text provides details about the food item: Foodbank Location: Yayasan FoodBank, Jalan Lubuk; Food Name: Nasi Ayam; Quantity: 4; Date: 6/10/2021; Time Start: 14.30; Time End: 17.30. A red 'Confirm Reservation' button is at the bottom of this overlay. In the bottom right corner of the main content area, there is a small footer with links: 'Customise', 'Edit', 'Statistics', and '***'. The footer also contains the MyFood contact information: address (Jalan Washinton Temeloh, 49000 Johor, Malaysia), phone number (+603 2456-7890), and email (MY.Food@gmail.com). The copyright notice 'Copyright © MyFood. All rights reserved.' is located just above the footer.

Figure 4.4b Recipient's 'Reserve Food' Interface - This Interface is used for displaying Food Bank Location, Food Name, Quantity, Date and range of time for the food delivery for the food that they selected before they confirm the reservation of the specified food.

4.4c Cancel Reservation of Food (Recipient)

The screenshot shows a web-based food distribution application. At the top, there's a navigation bar with links for 'Home', 'Donate', 'About Us', 'Help Us', and 'Disabled'. On the right side of the header is a user profile picture of a smiling person. Below the header, there are four main menu buttons: 'Home Page' (black), 'Food Menu' (black), 'Reserved Food' (red, currently selected), and 'Community Feed' (black). The main content area displays a food reservation for 'Nasi Ayam' (Quantity: 4) scheduled for 6/10/2021 at 15:30. It includes details like 'Foodbank Location: Yayasan FoodBank, Jalan Lubuk' and a photo of the meal. A red 'Cancel Reservation' button is visible. At the bottom, there's a dark footer with contact information for 'MyFood' (Jalan Washinton Temeloh, 49000 Johor, Malaysia, +603 2456-7890) and an email address (MY.Food@gmail.com). The footer also includes a copyright notice ('Copyright © MyFood. All rights reserved.') and a link to 'Foodbank App - Recipient'.

Foodbank Location:
Yayasan FoodBank, Jalan Lubuk

Food Name:
Nasi Ayam

Quantity:
4

Date:
6/10/2021

Delivery Time:
15.30

Cancel Reservation

Customise Edit Statistics ***

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

[Foodbank App – Recipient](#). Create a free website or blog at WordPress.com.

Figure 4.4c Recipient's 'Cancel Reservation of Food' Interface - This Interface is used for canceling the reservation back if the recipient does not want the food.

4.4d View Community (Recipient)

The screenshot shows the 'Community Feed' section of the MyFood Food Bank website. At the top, there is a navigation bar with links for 'Edit page', 'Change theme', and 'Launch site'. Below the navigation is the website's logo, 'MYFOOD FOOD BANK', featuring a green hand icon. The main menu includes 'Home Page', 'Food Menu', 'Reserved Food', and 'Community Feed' (which is highlighted in red). A user profile picture of a person with green hair is visible on the right.

In the center, there is a search bar with the placeholder 'What's on your mind, Kishen?'. Below it, two posts are displayed:

- Syahmi** (1 day ago - Tips & Tricks): "Throwing away food is like stealing from the table of those who are poor and hungry. Cutting food waste is a delicious way of saving money, helping to feed the world and protect the planet. A food waste reduction hierarchy-feeding people-[Read More](#)". This post has 2.2K likes, 128 comments, and 180 shares.
- Amirah** (1 day ago - Q&A): "The garden is doing so well, we have so many greens and radishes that everyone is enjoying. Also, we are using one square as a compost bin, The Green Team is collecting food waste at lunch. Things are looking great, a huge thank you again." This post has 6 likes and 3 shares.

At the bottom of the feed, there are buttons for 'News' and 'Community'. On the far right, there are links for 'Customise', 'Edit', 'Statistics', and more. The footer contains contact information for MyFood, including an address in Jalan Washinton Temeloh, 49000 Johor, Malaysia, and a phone number +603 2456-7890, along with an email address MY.Food@gmail.com. Copyright information and a link to the Foodbank App are also present.

Figure 4.4d Recipient's 'View Community' User Interface - This UI is used for displaying daily posts about food waste, sharing tips and more from other users and it can be done by clicking the 'create a new post' button.

4.4e View News (Recipient)

← My Home | [Edit page](#) | [Change theme](#) | [Launch site](#) | X

 Home · Donate · About Us · Help Us · Disabled · 

[Home Page](#) [Food Menu](#) [Reserved Food](#) [Community Feed](#)

5 Unique Ways to Use Leftover Egg Whites

[Click to Read More](#)



[Customise](#) [Edit](#) [Statistics](#) ***



Ribena waste used by Leeds scientists to make hair dyes

[Click to Read More](#)

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

[Foodbank App – Recipient](#). Blog at WordPress.com.



The screenshot shows a blog post titled "5 Unique Ways to Use Leftover Egg Whites". The post features a photo of hands cracking eggs into a bowl. Below the title is a bio for the author, Little, and two recipe cards: "Pavlova" and "Meringue-topped cupcakes". Further down are sections for "Pink lady cocktails" and "DIY face masks", each with its own bio and a comment section. At the bottom is a newsletter sign-up form.

5 Unique Ways to Use Leftover Egg Whites

Hi, I'm Little. Previously a magazine editor, I became a full-time mother and freelance writer in 2017. I spend most of my time with my kids and husband over at [The Brown Bear Family](#).

Pavlova

Pavlova is a delicious, versatile and forgiving dessert that isn't as difficult to make as many people think. This pavlova recipe takes 4 egg whites (which is what you get if you eat cake). Each cake takes 6 yolks, so you get exactly 2 pavlovas worth of whites from it and you can swap out the fruit for whatever you like or have on hand.

The key to a good pavlova is making sure you whip the egg whites to stiff peaks before adding the sugar. Use an electric mixer to beat the whites. When you turn the mixer on the "soft" position) upside down, the whipped egg white peaks on the beaters should stand straight up and not flop over at all.

A common problem with the meringue of a pavlova base is it cracking after cooling, but if you embrace the rustic look and go on the whipped cream and piles of fruit, those cracks become part of the charm.

Meringue-topped cupcakes

This classic meringue cupcake recipe uses 6 yolks for the lemon curd and 6 whites for the meringues, which is great if this is all you're making.

But, if you're using up leftover whites, you can swap the homemade lemon curd for store-bought, use the meringue technique to make a unique topping for virtually any type of cupcake. Bake your cupcakes first, then skip to step 12 of the above recipe for the meringue technique.

Pink lady cocktails

This vintage cocktail recipe is sure to be the talk of the town if you bring it out for holiday parties, special birthdays, bridal showers or anniversaries. A single pink lady calls for one egg white, so you may end up using a LOT of whites if this is a hit. So you may end up having to look up a few more egg yolk recipes. ☺

You do want to use the freshest eggs possible for this, so we don't recommend using frozen whites for your pink ladies. Instead, plan your event menu so that the yolks are used in another dish. Here are some tips for safely using eggs in cocktails.

DIY face masks

Eggs aren't just for food! Egg white face masks can be very hydrating, which is nice for our parched skin when it's locked inside with electric heating all winter.

You can find a variety of egg white face mask recipes just by googling. If you want to know more about the benefits (and false claims) of egg white masks and how to use them safely, [The Derm Review](#) has a great article.

Candied nuts

When this candied nut recipe warns that they are addictive, they aren't kidding! These make great gifts... if you can stop yourself from eating the whole batch. The best part is that the recipe is very forgiving and doesn't even give exact quantities for ingredients. So, if you have 2 extra egg whites or 3, or 1, or 4... you can make that!

HollyMak 2 years ago
Add to Soups, pancakes or mash potatoes or just chuck in with eggs for breakfast.
[Reply](#)

Tikka_Male 2 years ago
BBC Good Food, why is this a pay per view / subscription service for the people who are paying the Licence fee? I am seeking my right of access to the BBC.
[Reply](#)

dudeing 2 years ago
It's not?
[Reply](#)

Get new content delivered directly to your inbox.

Enter your email address:
[Sign Up](#)

[My Site](#) [Header](#) [Edit page](#) [Change theme](#) [Launch site](#) [Print](#) [X](#)



Home · Donate · About Us · Help Us · Disabled · 

[Home Page](#) [Food Menu](#) [Reserved Food](#) [Community Feed](#) [News](#) [Community](#)



Ribena waste used by Leeds scientists to make hair dyes



Hi, I'm Lillie. Previously a magazine editor, I became a full-time mother and freelance writer in 2017. I spend most of my time with my kids and husband over at The Brown Bear Family.

A natural hair dye based on the blackcurrant waste from the production of Ribena has been created by scientists.

The dyes use waste created after the berries have been pressed for juice.

A new technique by University of Leeds scientists extracts natural colouring from the leftover skins to make dyes.

Dr Richard Blackburn said the berries "represent a sustainable supply of raw material because of how much blackcurrant cordial we drink".

About 90% of the British blackcurrant crop is used to make the branded drink, according to the manufacturer.

Dr Blackburn, a colour chemist, said the university wanted "to develop biodegradable alternatives that minimise potential risks to health" due to concerns about conventional dyes.



Blackcurrant skins can be used for pink, red, purple, violet and blue colours.

The blackcurrant skins have high concentrations of anthocyanins, pigments that provide colour to many berries, flowers, fruits and vegetables.

Dr Blackburn said: "They are non-toxic, water soluble and responsible for pink, red, purple, violet and blue colours and are widely used as natural food colourants all over the world."

"We knew they bound strongly with proteins – hair is a protein – so we thought if we could find an appropriate source of these natural colours, we might be able to dye hair."

The patented technology enables the pigment to be extracted and provide intense colours on hair.

The research in the Journal of Agricultural and Food Chemistry said colours last for at least 12 washes, similar to other semi-permanent dyes.

The blackcurrant-based dyes should go on sale this summer through a university spin-off company.

 **Nina 27** 6 years ago [Tip](#)
Lovely ideas for recipes, also homemade marshmallows are a lovely way to use up excess egg whites. Not as difficult as it might appear (recipe courtesy of waitrose and tried and tested, came out lovely every time).
250g golden caster sugar 1 tbsp liquid glucose 50g dark chocolate (70% cocoa) 5...
[More](#)

 **natjustin** 7 years ago [Tip](#)
LEMON CURD Egg yolks are great for making lemon curd, a fabulous addition to meringues! We like a lemony, not too sweet curd: 4 yolks, 100g caster sugar, 60g butter zest of 1 lemon very finely chopped, 125ml lemon juice
Whisk eggs & sugar until combined but not frothy. Pour into a NON-METAL saucepan...
[More](#)

Get new content delivered directly to your inbox.

Enter your email address

[Sign Up](#)

MyFood
Jalan Wawasan Tarmeloh
49000 Johor, Malaysia
+603 2456-7890
MY_Food@gmail.com

Copyright © MyFood. All rights reserved.

Foodbank App - Recipient. Create a free website or blog at WordPress.com.

Figure 4.4e Recipient's 'View News' User Interface - This UI is used for displaying news and information about food which has been done by authorised users.

4.4f Acquire Assistance (Recipient)

Get in touch

Name (required)

Email (required)

Message

Customise Edit Statistics ...

Submit

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890

MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

[Foodbank App – Recipient](#). Blog at WordPress.com.

Figure 4.4f Recipient's 'Acquire Assistance' Interface - This interface is often the go-to for a new recipient on a mission. It's where they go when they have a question and truly want to speak to an individual at the organization so this interface is used to convert by clearly and effectively presenting the method(s) of getting in touch with the food bank organization as quickly as possible.

4.5a Search for nearby food bank locations (Distributor)

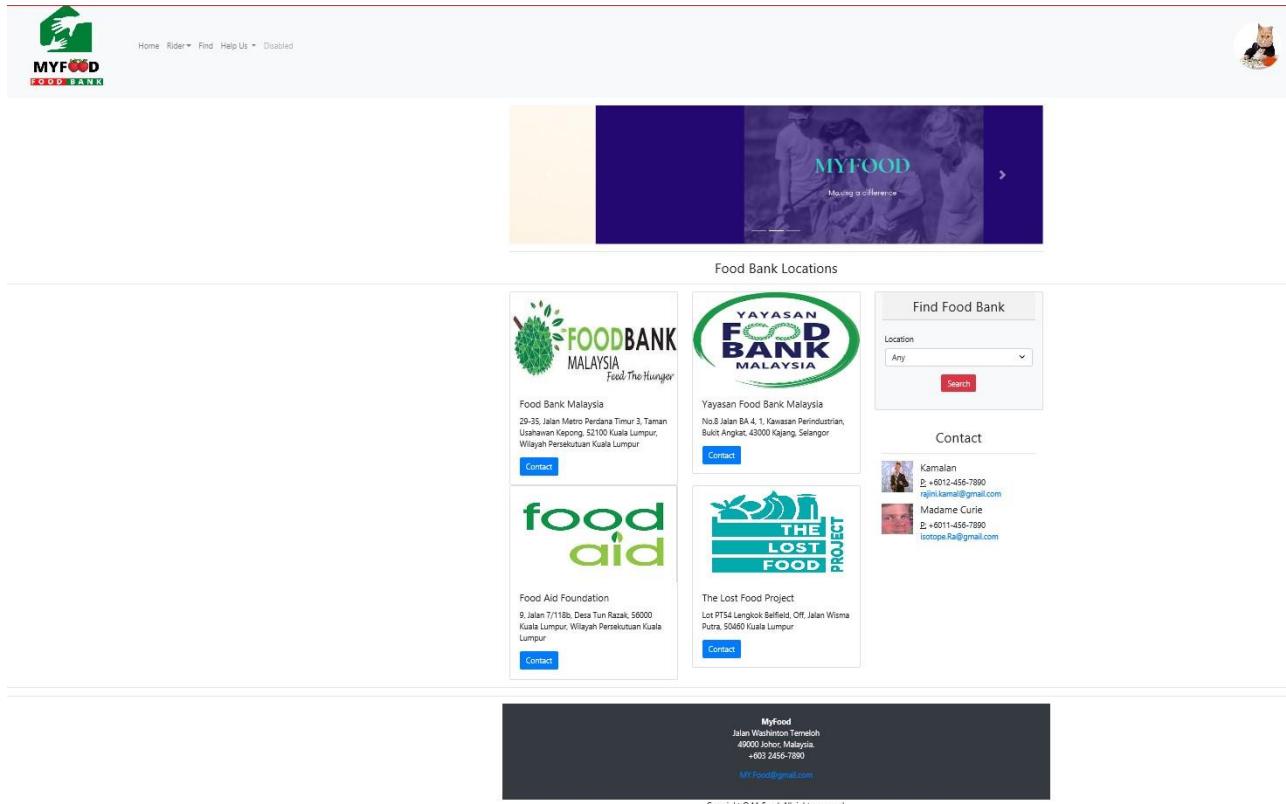


Figure 4.5a Distributor's 'Search for nearby food bank locations' Interface - This Interface allows distributors to search for nearby food bank locations by comparing between the distributor's and food bank's location so that they can decide whether they can accept the distribution of the specific food or not. This also allows them to check the status of the reserved food that is available at the specific food bank location and period of time.

4.5b Select status of reserved food (Distributor)

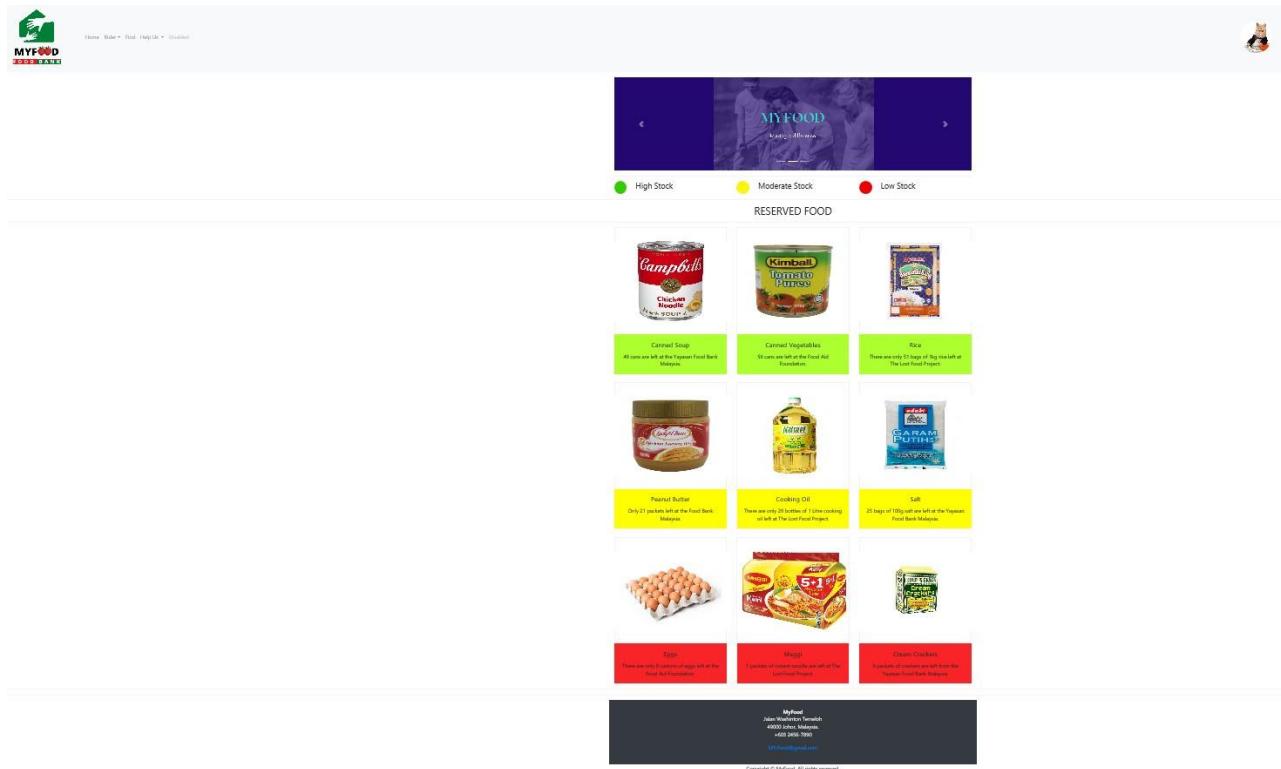


Figure 4.5b Distributor's 'Select status of reserved food' Interface - This interface allows them to confirm to the system that they have chosen the status for the specified food. After they have chosen the status for it, the system will automatically update the status for the specified food in the interface which is located in Figure 4.5a.

4.5c View distribution status (Distributor)

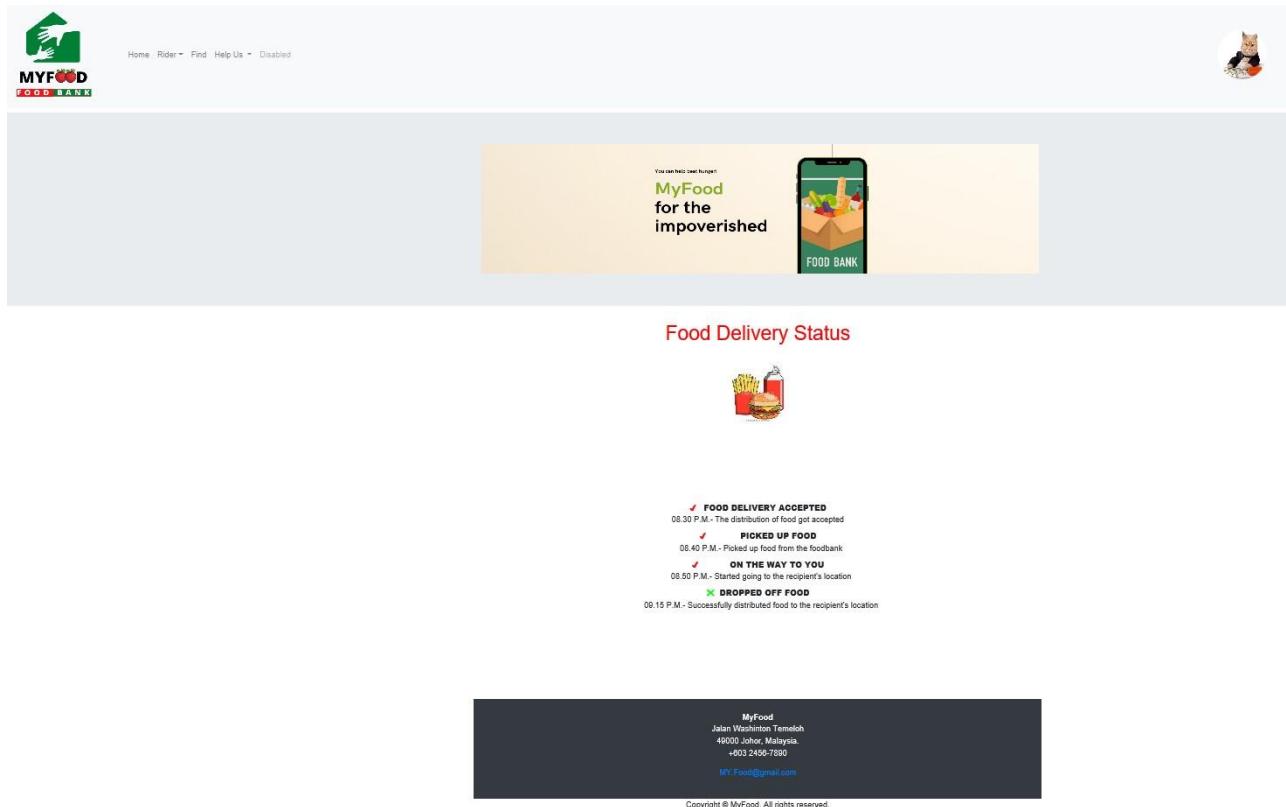


Figure 4,5c Distributor's 'View distribution status' Interface - This interface allows them to view their distribution status. The system will track the distributor's and recipient's location and update the distribution status from time to time to revise the estimated delivery time.

4.5d Rider's Pick up food Page

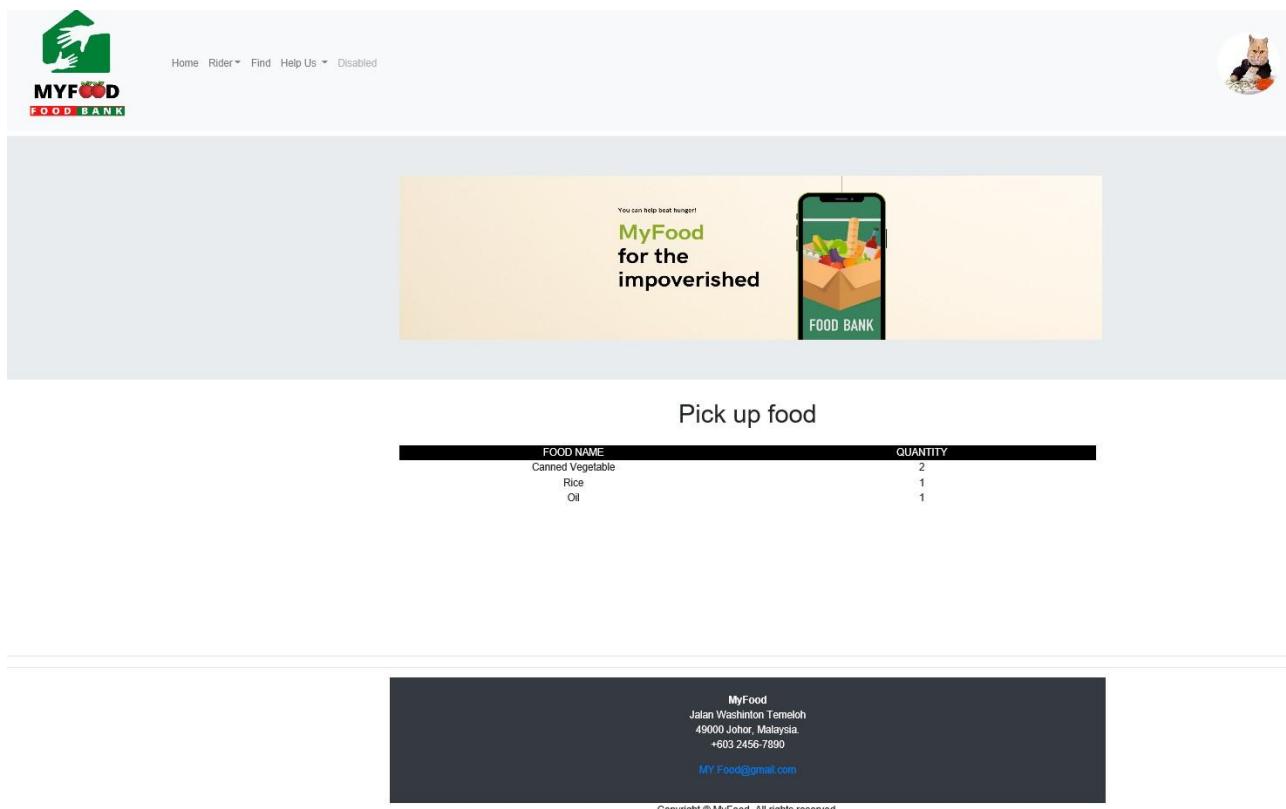


Figure 4.5d Rider's Pick Up food Screen

4.5e Rider's Drop off food Page

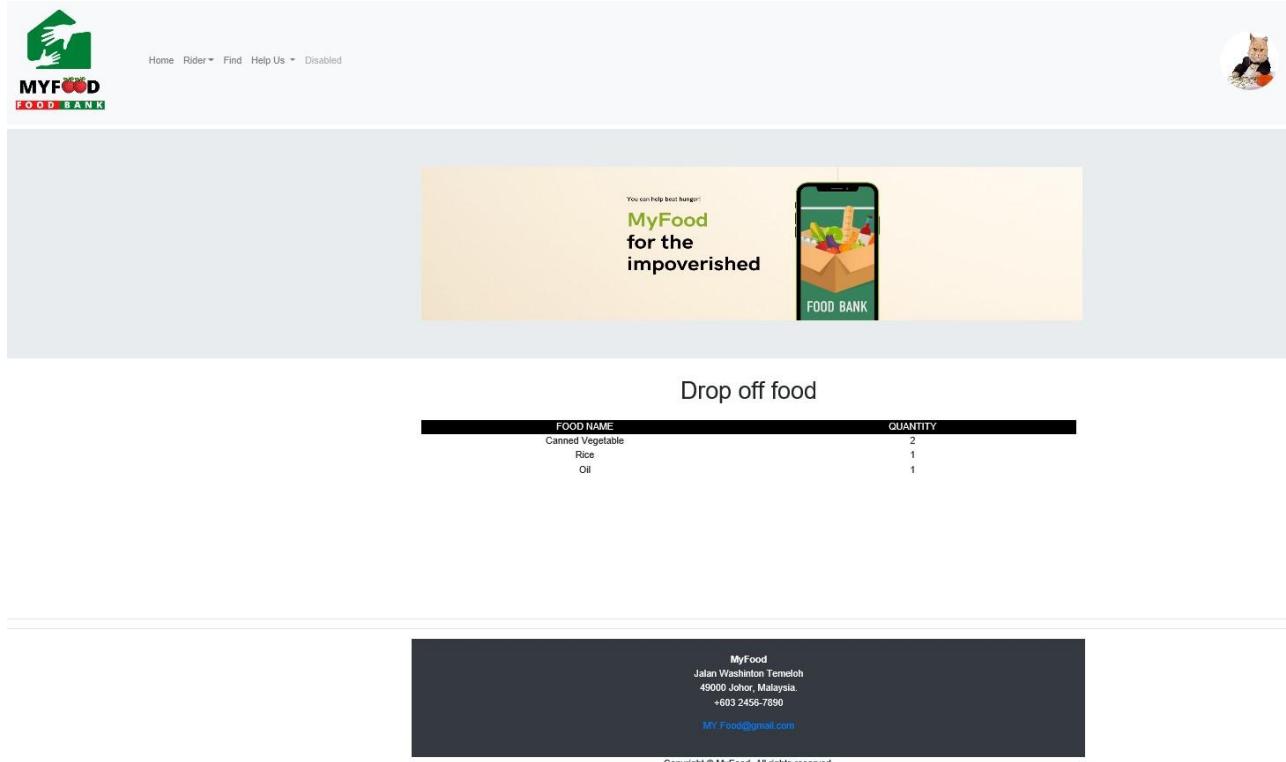


Figure 4.5e Rider's Drop off food Screen

8 Component Design

1.4 Main Components

1.5

1.5.1 Component 1

Recipient

Sign Up

Component Diagram

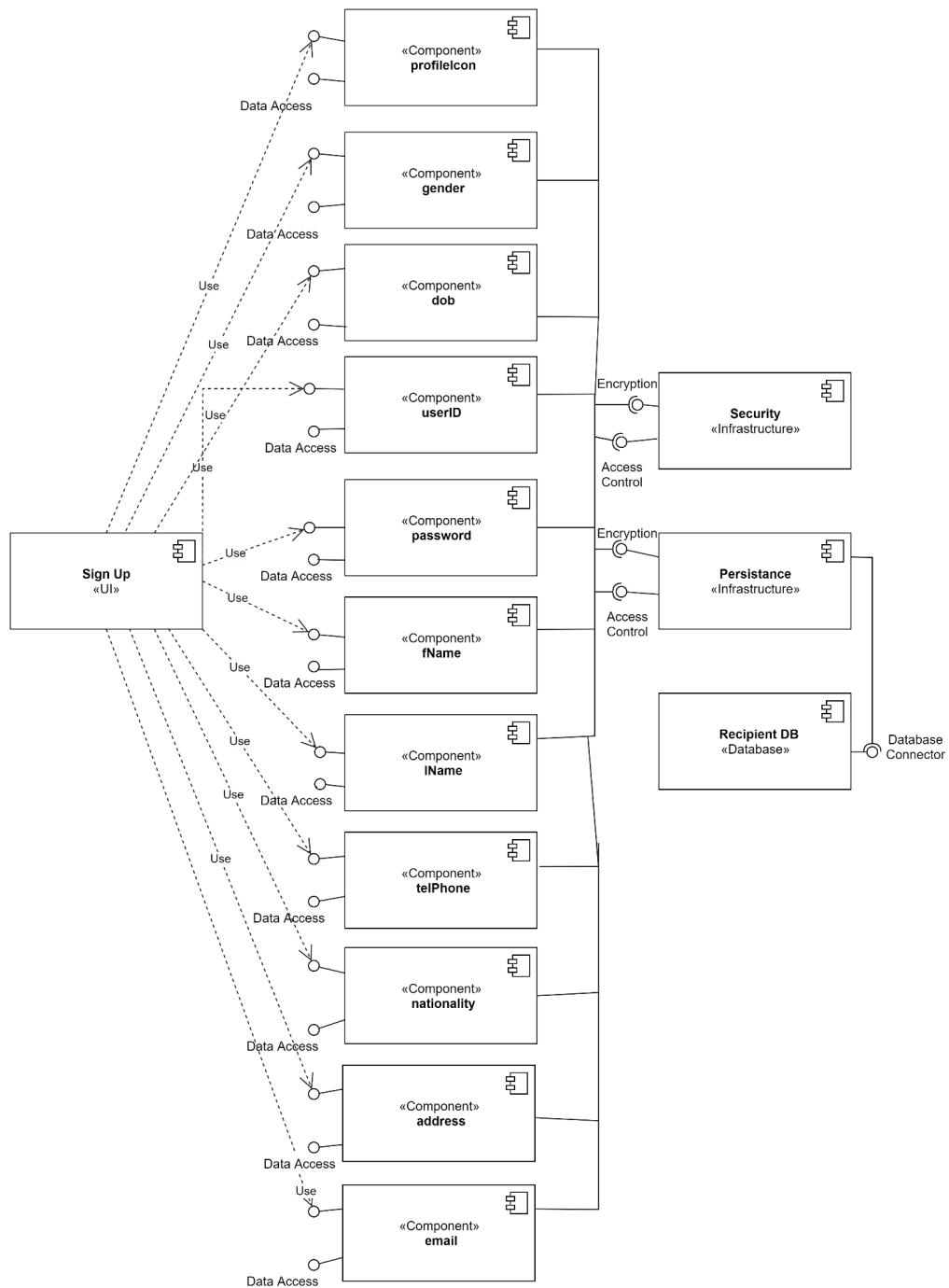


Figure 5.1a Recipient's 'Sign Up' Component Diagram

Activity Diagram

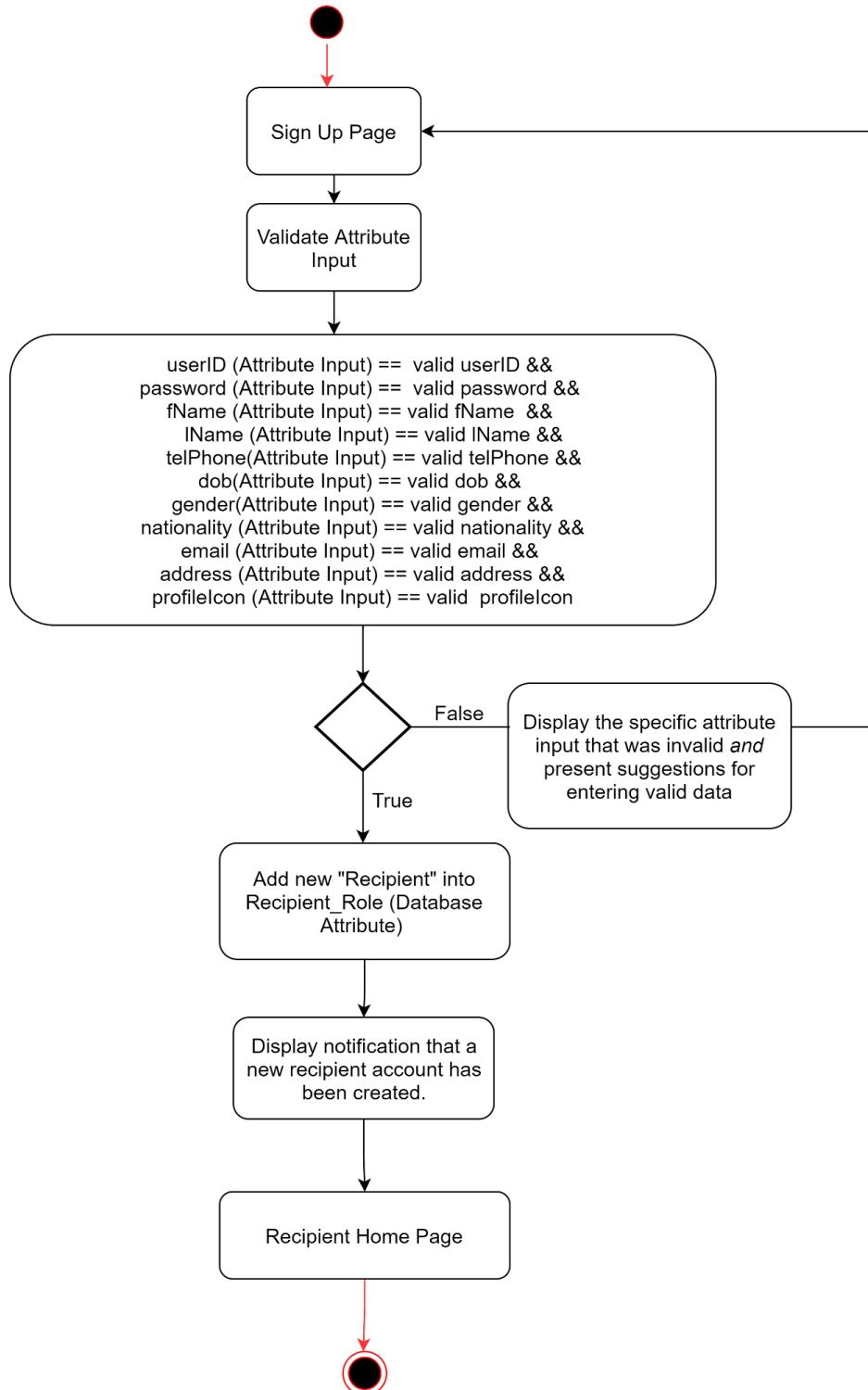


Figure 5.1b Recipient's 'Sign Up' Activity Diagram

Pseudocode

GET userID
GET password
GET fName
GET lName
GET telPhone
GET dob
GET gender
GET nationality
GET email
GET address
GET profileIcon

IF (Entered userID == valid userID && Entered password == valid password && Entered fName == valid fName && Entered lName == valid lName && Entered telPhone == valid telPhone && Entered dob == valid dob && Entered gender == valid gender && Entered nationality == valid nationality && Entered email == valid email && Entered address == valid address && Entered profileIcon == valid profileIcon) **THEN**

Save New Recipient's Details into the Recipient_Role(Database Attribute)

Display notification that a new recipient account has been created (Sign Up Successful)

Go to the Recipient Home Page

ELSE

Sign Up Failed

Display the specific attribute input that was invalid *and* present suggestions for entering valid data

Return to the Sign Up page

END IF

Log in

Component Diagram

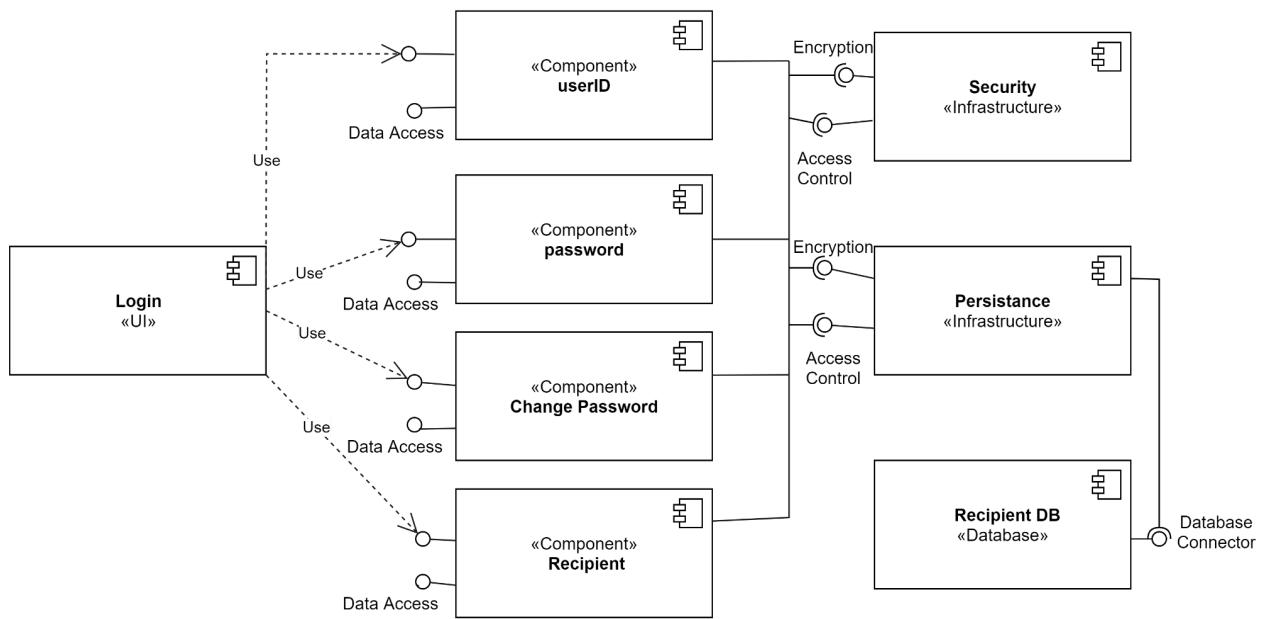


Figure 5.1c Recipient's 'Login' Component Diagram

Activity Diagram

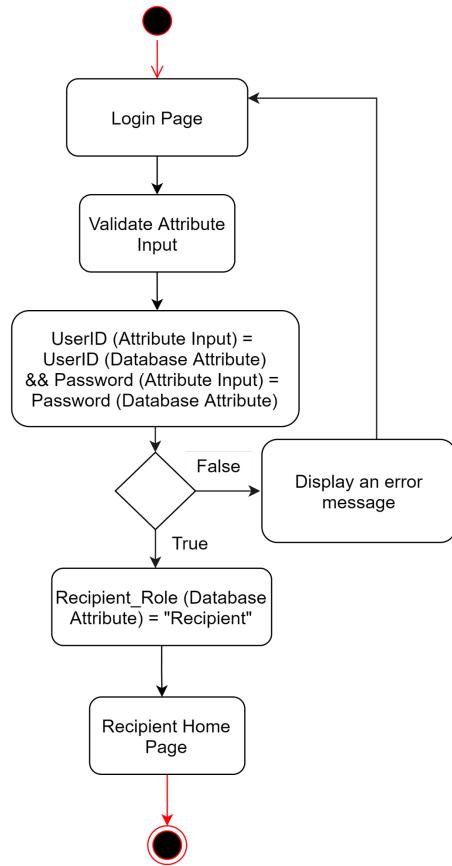


Figure 5.1d Recipient's 'Login' Activity Diagram

Pseudocode

GET userID
 GET password

IF (userID == EnteredUserID && password == EnteredPassword) **THEN**
 Login Successful
 Go to the Recipient Home Page

ELSE
 Login Failed
 Return to the login page

END IF

View Profile

Component Diagram

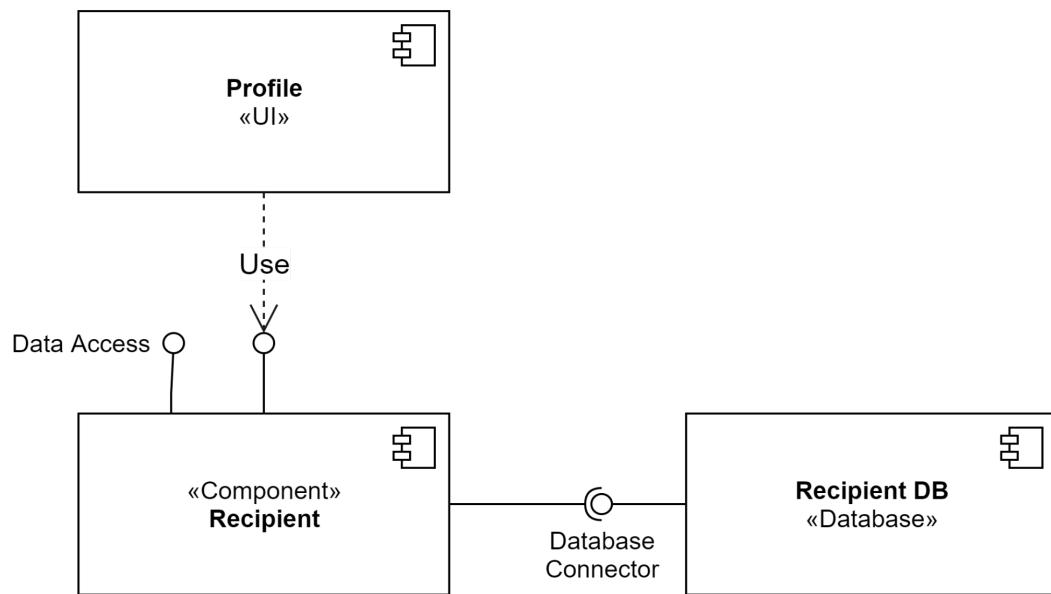


Figure 5.1e Recipient's 'View Profile' Component Diagram

Activity Diagram

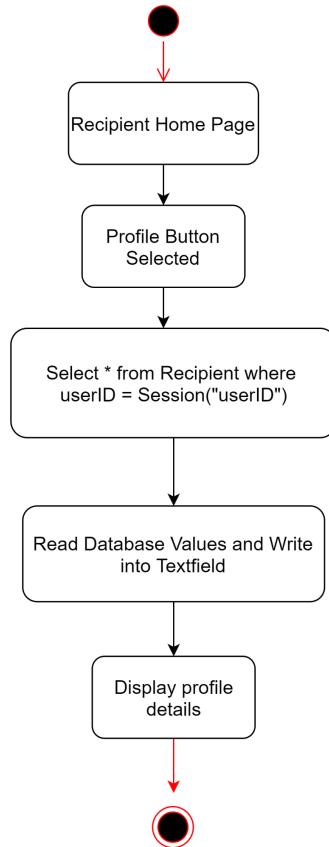


Figure 5.1f Recipient's 'View Profile' Activity Diagram

Pseudocode

Page Load

```
SELECT * FROM Recipient WHERE userID = Session("userID")
```

```

userID.Text = userID
password.Text = password
fName.Text = fName
lName.Text = lName
dob.Text = dob
gender.Text = gender
nationality.Text = nationality
address.Text = address
telPhone.Text = telPhone
email.Text = email
profile.Icon = profile

```

Edit Profile

Component Diagram

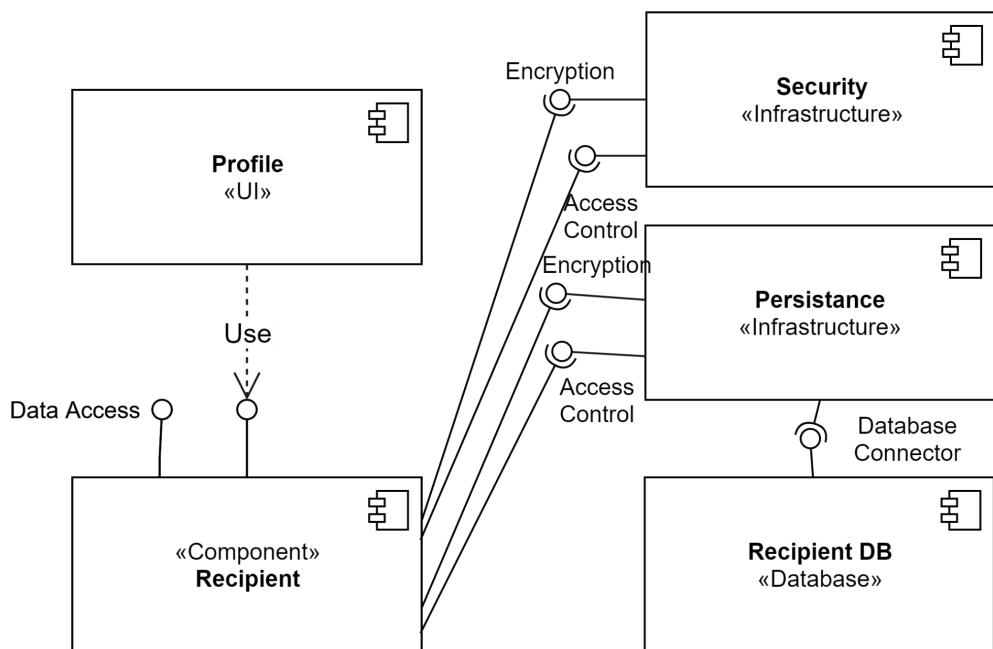


Figure 5.1g Recipient's 'Edit Profile' Component Diagram

Activity Diagram

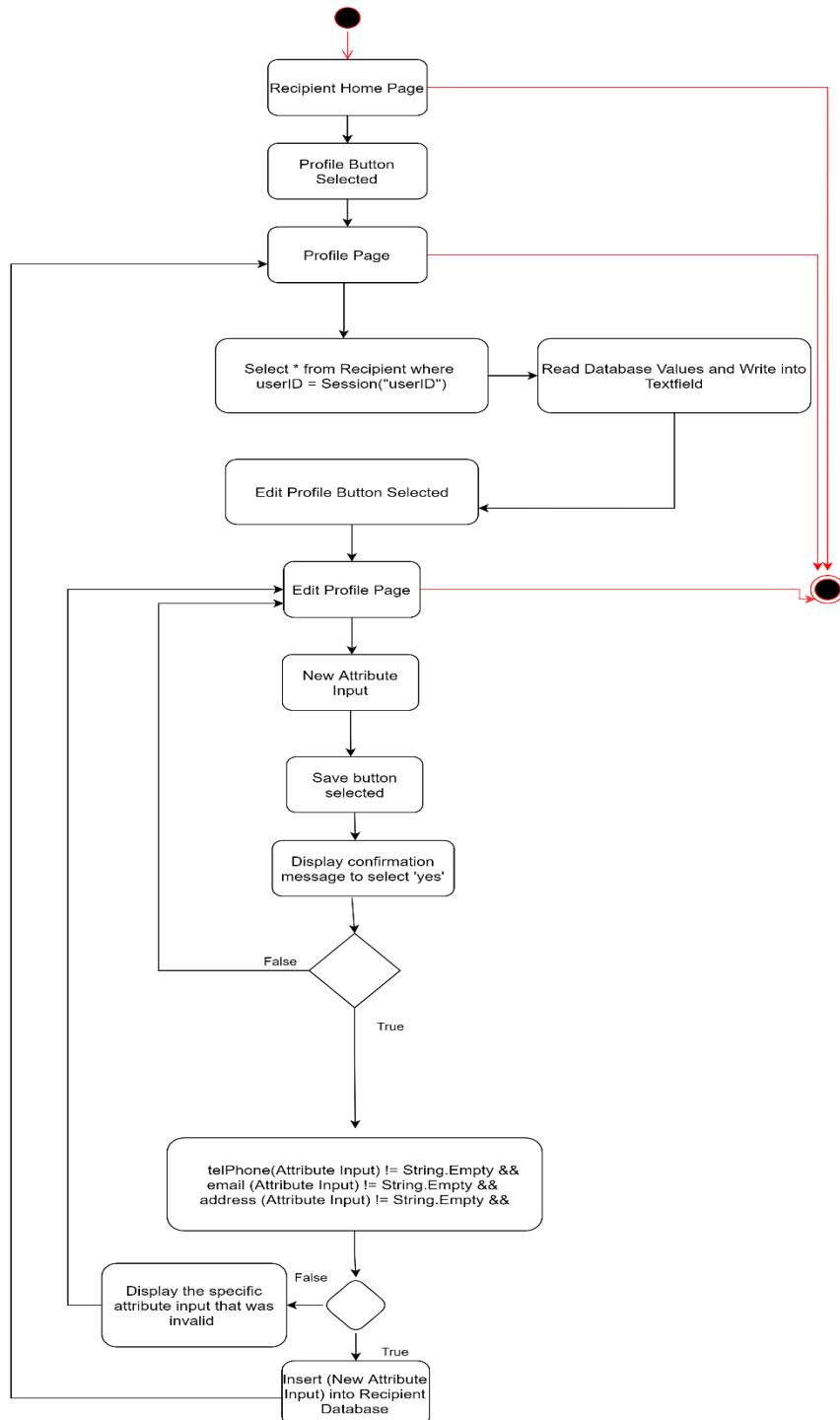


Figure 5.1h Recipient's 'Edit Profile' Activity Diagram

Pseudocode

Page Load

SELECT * FROM Recipient WHERE userID = Session("userID")

userID.Text = userID
password.Text = password
fName.Text = fName
lName.Text = lName
dob.Text = dob
gender.Text = gender
nationality.Text = nationality
address.Text = address
telPhone.Text = telPhone
email.Text = email
profile.Icon = profile

address.Text = "New address"
telPhone.Text = "New telPhone"
email.Text = "New email"

Save Button Selected

Displays Confirmation Message

IF ('Yes' Button Selected)

address.Text != String.Empty And
telPhone.Text != String.Empty And
email.Text != String.Empty

THEN

Update Recipient Address = "address.Text", telPhone = "telPhone.Text", email = "email.Text"
Where userID = Session("userID")

ELSE

FailureText = " * Value Required or Invalid Value! "
Return to Edit Profile Page

ELSE IF ('No' Button Selected)

Return to Edit Profile Page

END IF

View Food Menu

Component Diagram

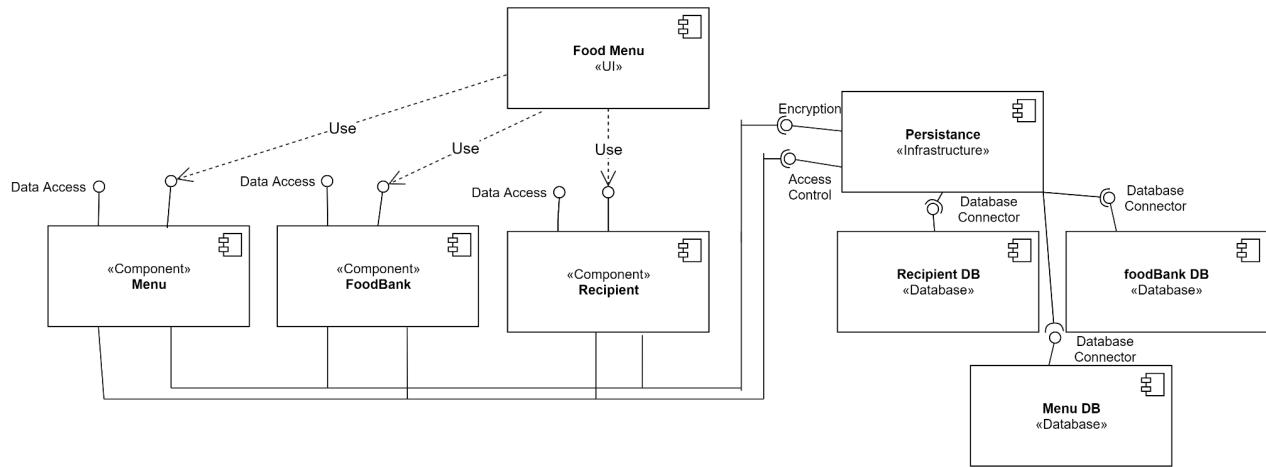


Figure 5.1i Recipient's 'View Food Menu' Component Diagram

Activity Diagram

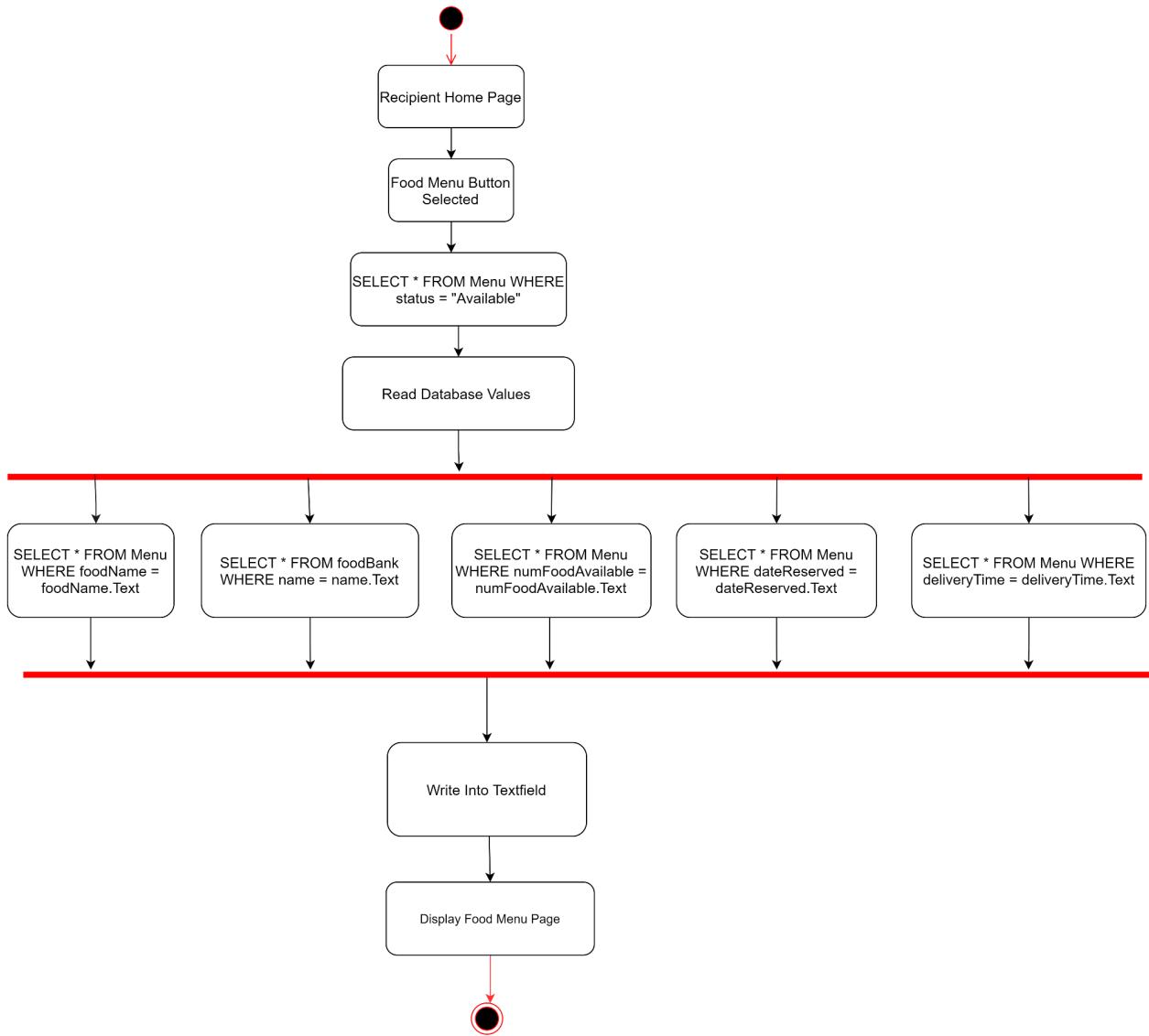


Figure 5.1j Recipient's 'View Food Menu' Activity Diagram

Pseudocode

Page Load

```

SELECT * FROM Menu WHERE status = Session("Available")
SELECT * FROM foodBank WHERE name = name.Text
SELECT * FROM Menu WHERE foodName = foodName.Text
SELECT * FROM Menu WHERE numFoodAvailable = numFoodAvailable.Text
SELECT * FROM Menu WHERE dateReserved = dateReserved.Text
SELECT * FROM Menu WHERE deliveryTime = deliveryTime.Text

```

```

foodBankName.Text = name
fontName.Text = foodName
numFoodAvailable.Text = numFoodAvailable
dateReserved.Text = dateReserved
deliveryTime .Text = deliveryTime

```

Reserve Food

Component Diagram

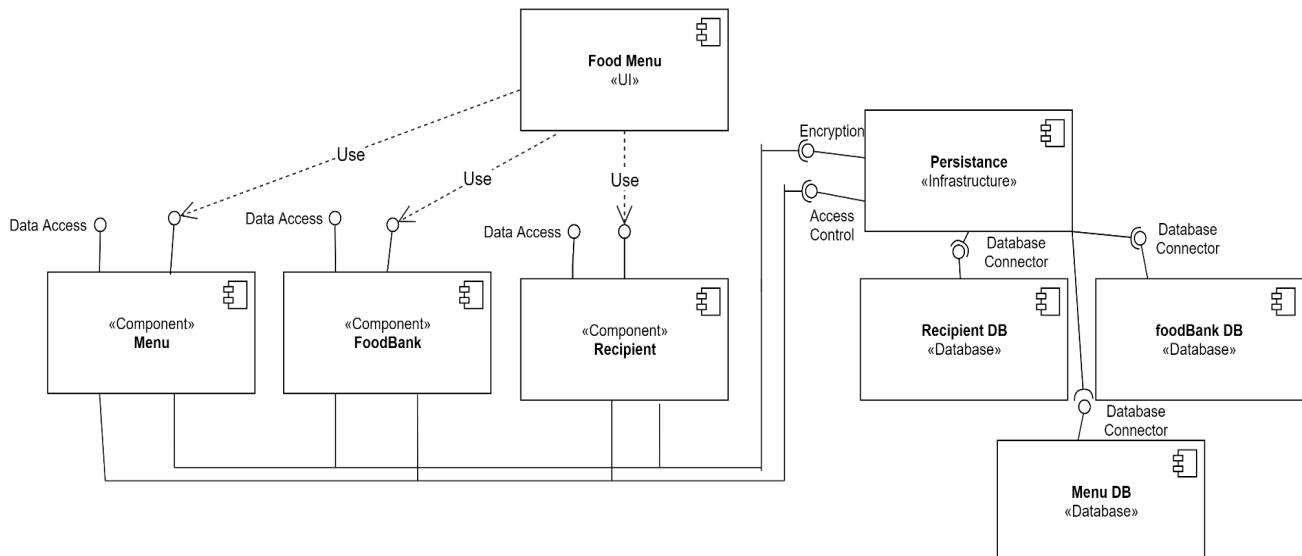


Figure 5.1k Recipient's 'Reserve Food' Component Diagram

Activity Diagram

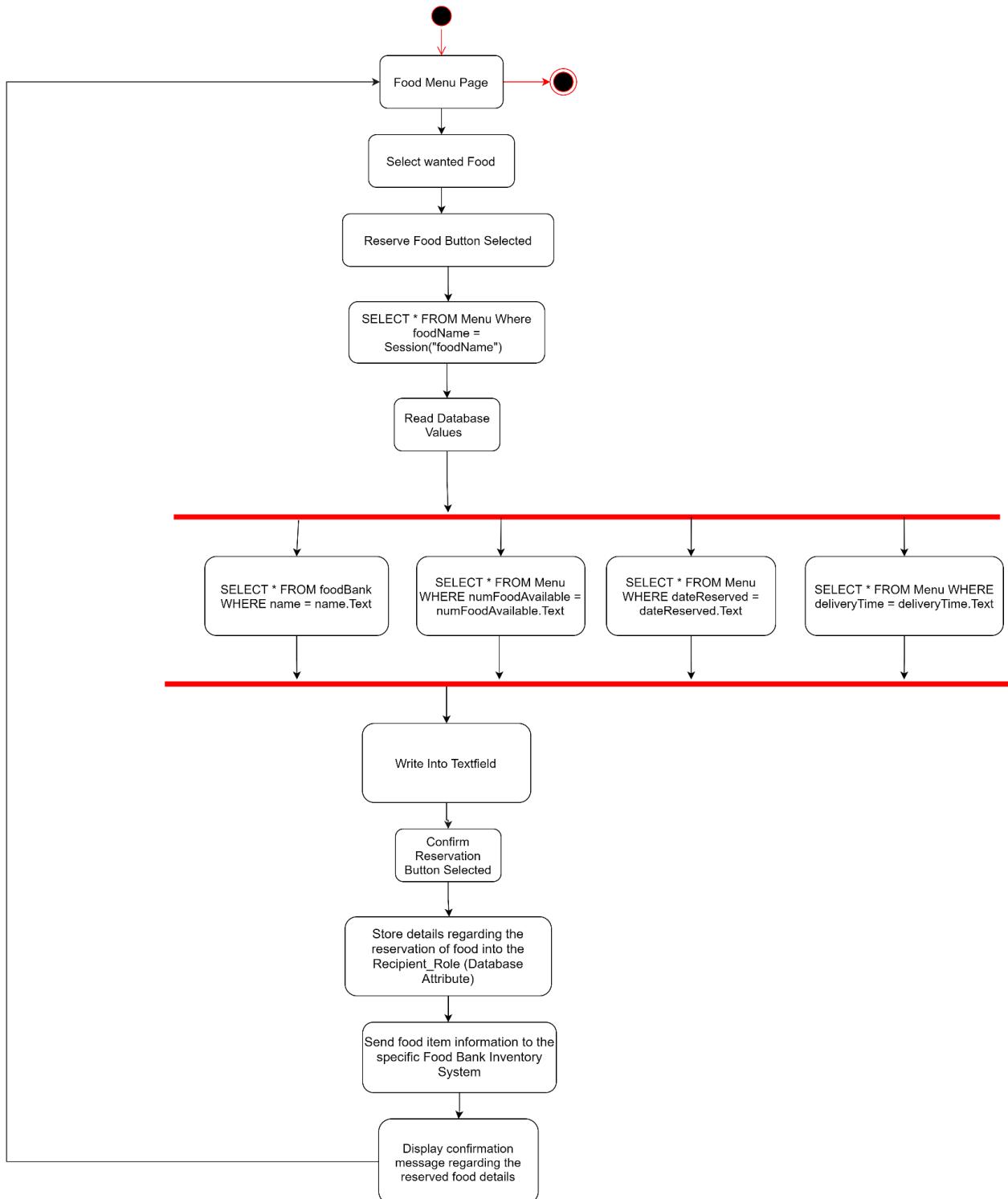


Figure 5.11 Recipient's 'Reserve Food' Activity Diagram

Pseudocode

Select wanted Food

Reserve Food Button Selected

```
SELECT * FROM Menu WHERE foodName = Session("foodName")
SELECT * FROM foodBank WHERE name = name.Text
SELECT * FROM Menu WHERE numFoodAvailable = numFoodAvailable.Text
SELECT * FROM Menu WHERE dateReserved = dateReserved.Text
SELECT * FROM Menu WHERE deliveryTime = deliveryTime.Text
```

foodBankName.Text = name

foodName.Text = foodName

numFoodAvailable.Text = numFoodAvailable

dateReserved.Text = dateReserved

deliveryTime.Text = deliveryTime

Confirm Reservation Button Selected

Save details regarding the reservation of food into the Recipient_Role(Database Attribute)

Send food item information to the specific Food Bank Inventory System

Displays confirmation message regarding the reserved food details (Food Reservation is successful)

Return to the Food Menu Page

Cancel Reservation of Food

Component Diagram

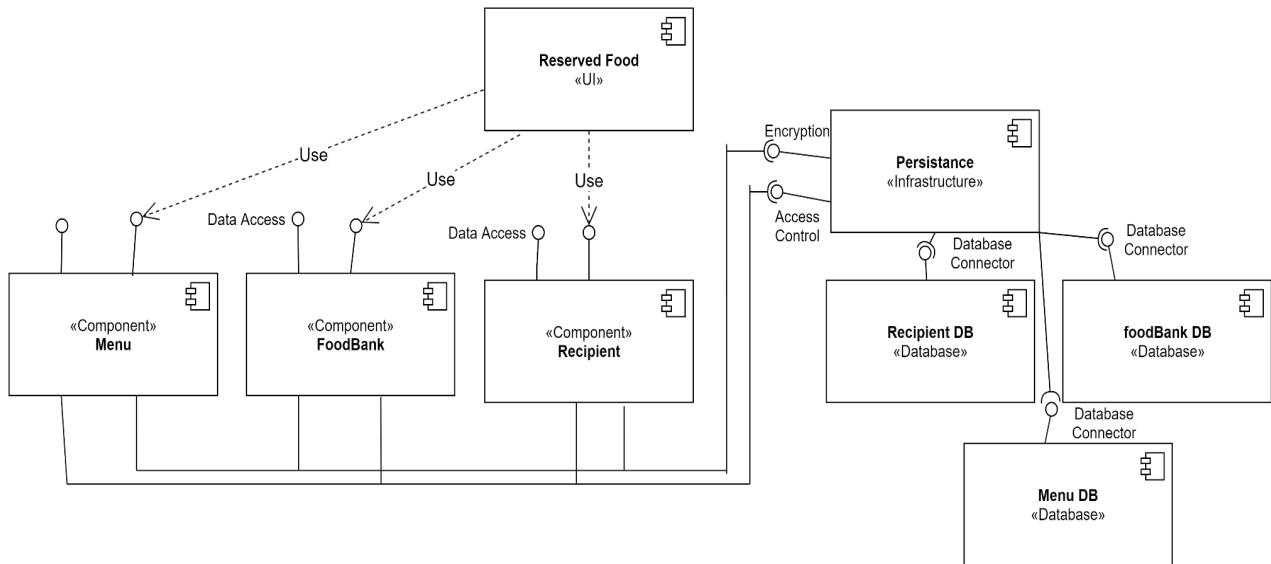


Figure 5.1m Recipient's 'Cancel Reservation of Food' Component Diagram

Activity Diagram

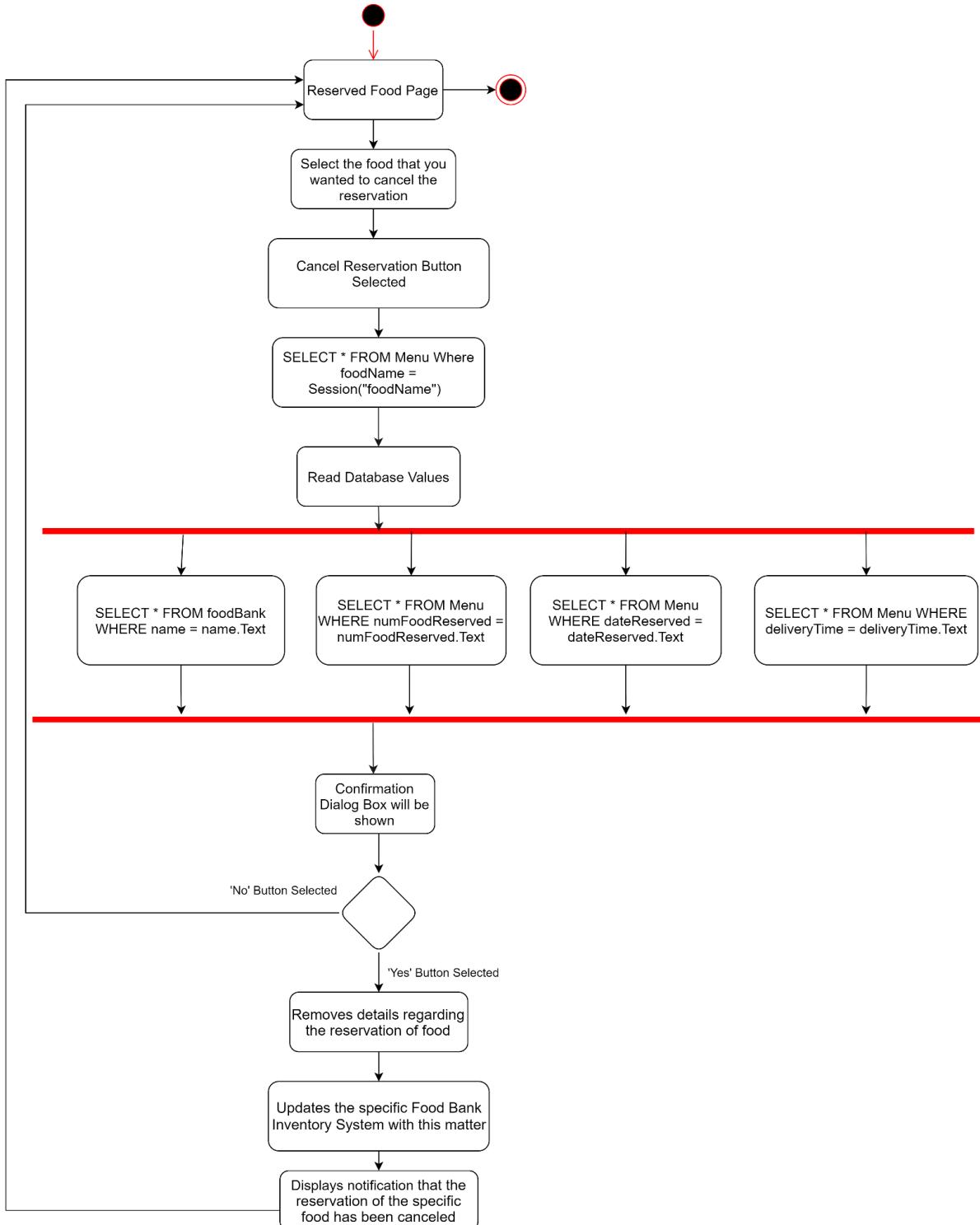


Figure 5.1n Recipient's 'Cancel Reservation of Food' Activity Diagram

Pseudocode

Select the food that you wanted to cancel the reservation
Cancel Reservation Button Selected

```
SELECT * FROM Menu WHERE foodName = Session("foodName")
SELECT * FROM foodBank WHERE name = name.Text
SELECT * FROM Menu WHERE numFoodReserved = numFoodReserved.Text
SELECT * FROM Menu WHERE dateReserved = dateReserved.Text
SELECT * FROM Menu WHERE deliveryTime = deliveryTime.Text
```

```
foodBankName.Text = name
foodName.Text = foodName
numFoodReserved.Text = numFoodReserved
dateReserved.Text = dateReserved
deliveryTime .Text = deliveryTime
```

Confirmation Dialog Box will be shown

IF ('Yes' Button Selected) THEN

```
Removes details regarding the reservation of food from the Recipient_Role(Database Attribute)
Updates the specific Food Bank Inventory System with this matter
Displays notification that the reservation of the specific food has been canceled (Cancel
Reservation of food is successful)
Return to the Reserved Food Page
```

ELSE IF ('No' Button Selected) THEN

Return to the Reserved Food Page

END IF

View Community Feed

Component Diagram

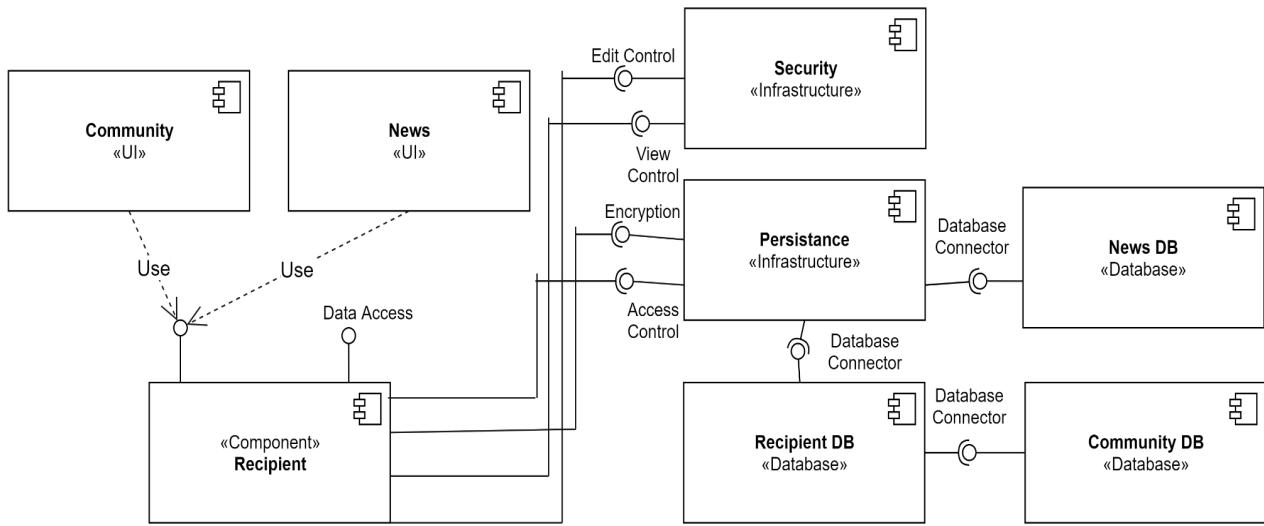


Figure 5.1o Recipient's 'View Community Feed' Component Diagram

Activity Diagram

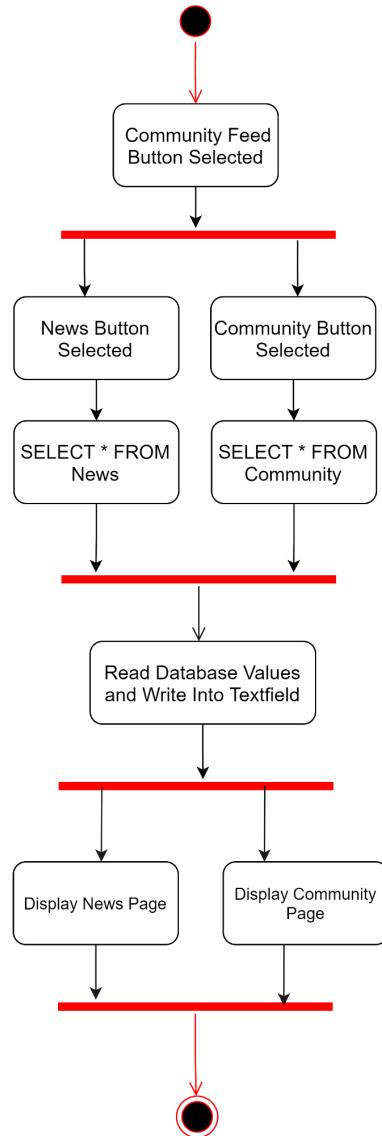


Figure 5.1p Recipient's 'View Community Feed' Activity Diagram

Pseudocode

Community Feed Button Selected

IF (News Button Selected) **THEN**

 SELECT * FROM News

 Display News Page

ELSE IF (Community Button Selected) **THEN**

 SELECT * FROM Community

 Display Community Page

END IF

Acquiring Assistance

Component Diagram

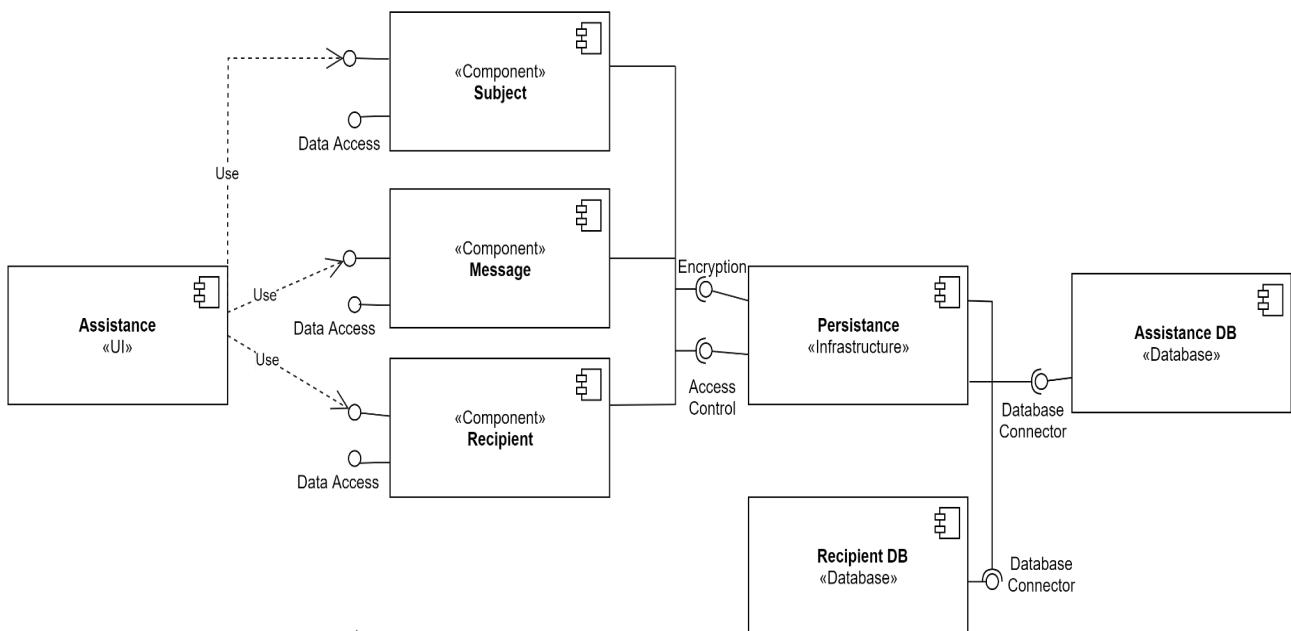


Figure 5.1q Recipient's 'Acquiring Assistance' Component Diagram

Activity Diagram

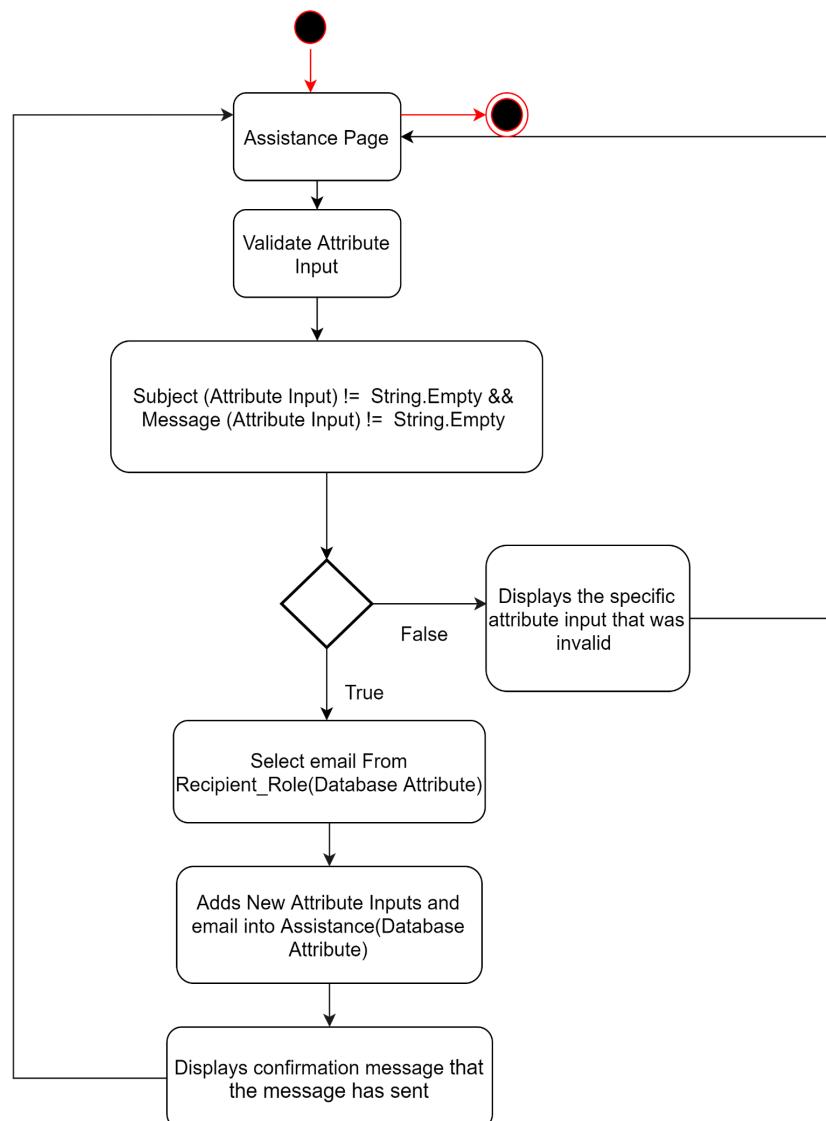


Figure 5.1r Recipient's 'Acquiring Assistance' Activity Diagram

Pseudocode

GET Subject
GET Message

IF (Entered Subject != String.Empty && Entered Message != String.Empty) **THEN**

Select email From Recipient_Role(Database Attribute)
Save New Attributes and email into the Assistance(Database Attribute)
Displays confirmation message that the message has sent (Message Sending Successful)
Return to the Assistance Page

ELSE

Message Sending Failed
Displays the specific attribute input that was invalid
Return to the Assistance page

END IF

Donor

Sign up

Component Diagram

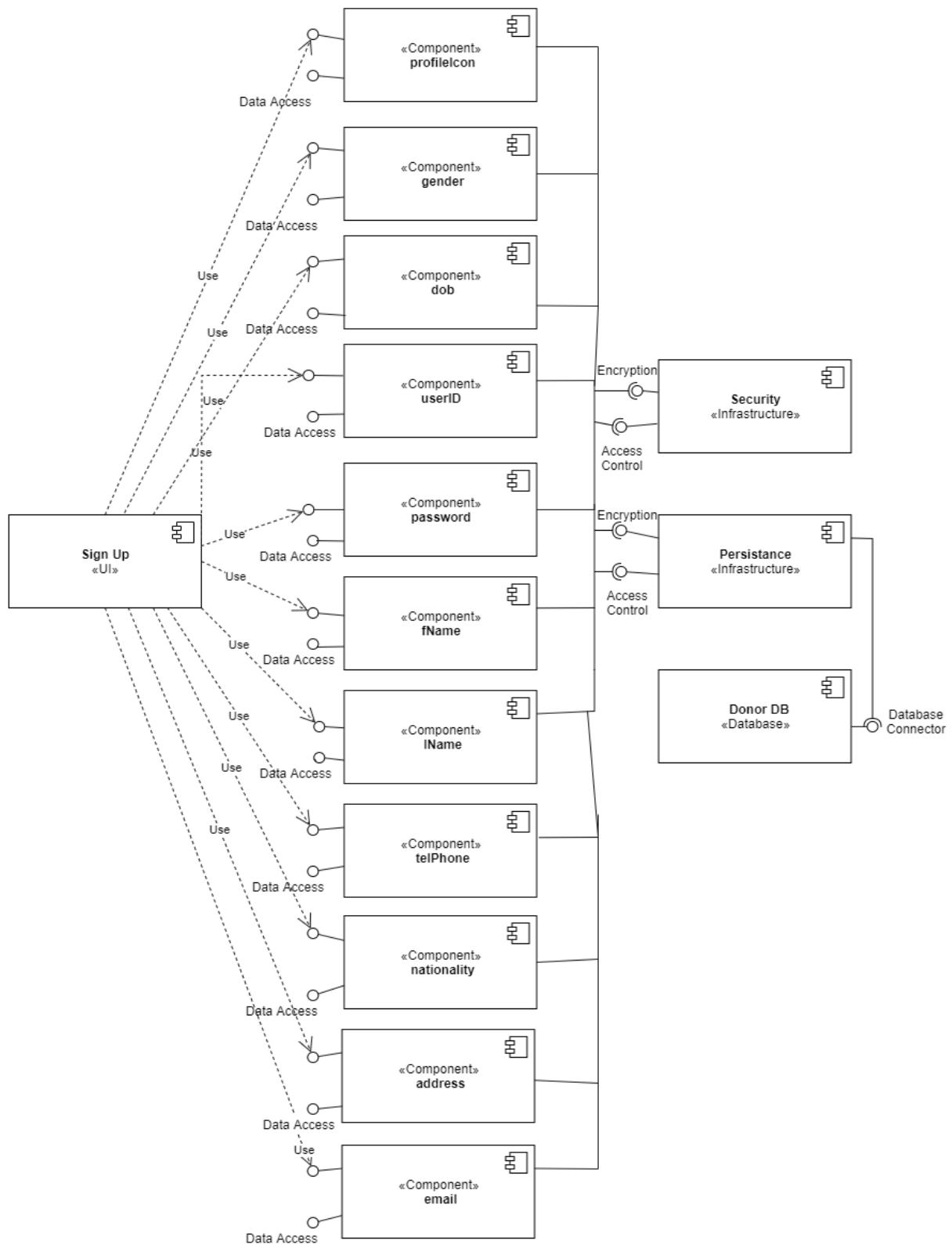


Figure 5.2a Donor's 'Sign Up' Component Diagram

Activity Diagram

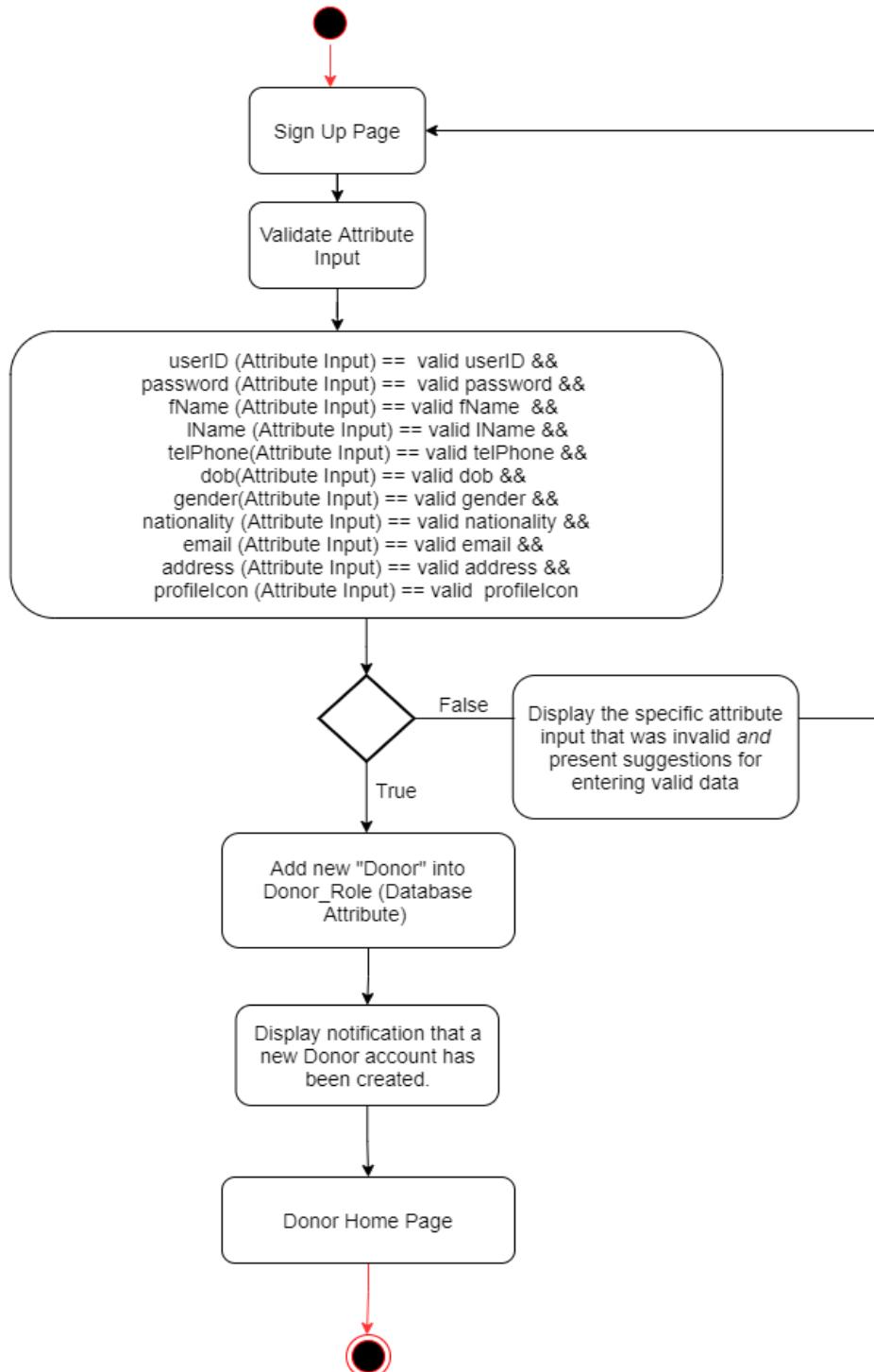


Figure 5.2b Donor's 'Sign Up' Activity Diagram

Pseudocode

GET userID
GET password
GET fName
GET lName
GET telPhone
GET dob
GET gender
GET nationality
GET email
GET address
GET profileIcon

IF (Entered userID == valid userID && Entered password == valid password && Entered fName == valid fName && Entered lName == valid lName && Entered telPhone == valid telPhone && Entered dob == valid dob && Entered gender == valid gender && Entered nationality == valid nationality && Entered email == valid email && Entered address == valid address && Entered profileIcon == valid profileIcon) **THEN**

Save New Donor's Details into the Donor_Role(Database Attribute)

Display notification that a new Donor account has been created (Sign Up Successful)

Go to the Donor Home Page

ELSE

Sign Up Failed

Display the specific attribute input that was invalid *and* present suggestions for entering valid data

Return to the Sign Up page

END IF

Login

Component Diagram

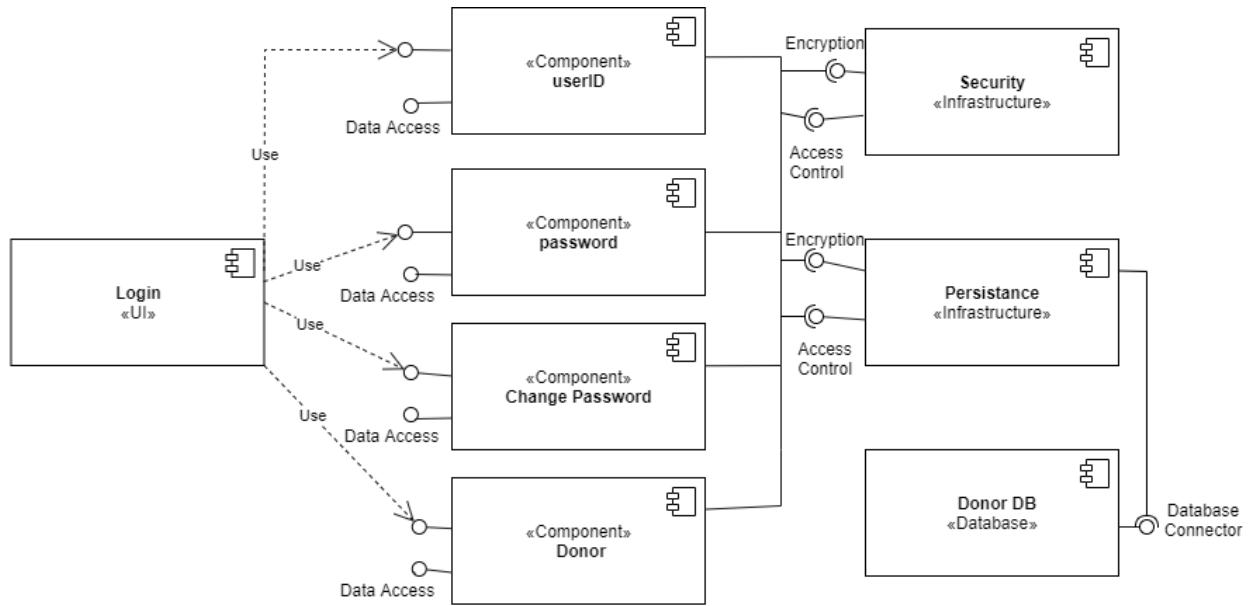


Figure 5.2c Donor's 'Login' Component Diagram

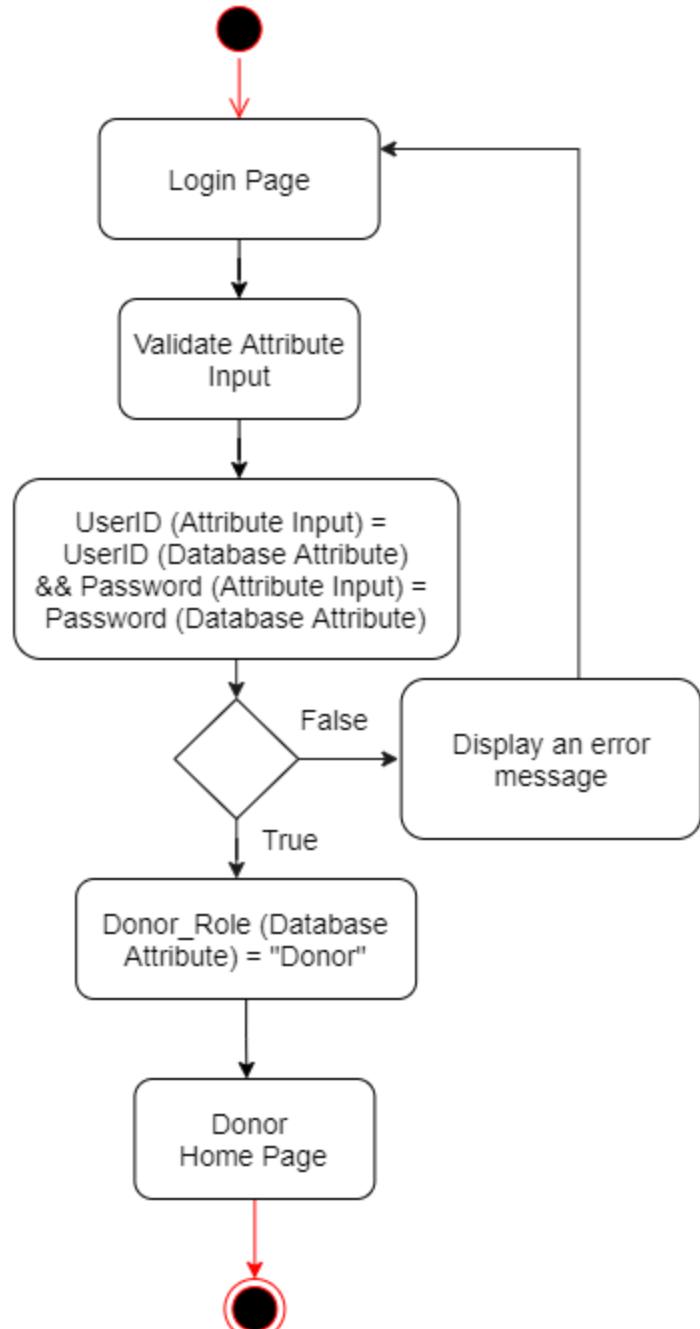
Activity Diagram

Figure 5.2d Donor's 'Login' Activity Diagram

Pseudocode

GET userID
GET password

IF (userID == EnteredUserID && password == EnteredPassword) **THEN**
 Login Successful
 Go to the Donor Home Page

ELSE
 Login Failed
 Return to the login page

END IF

Donate Food

Component Diagram

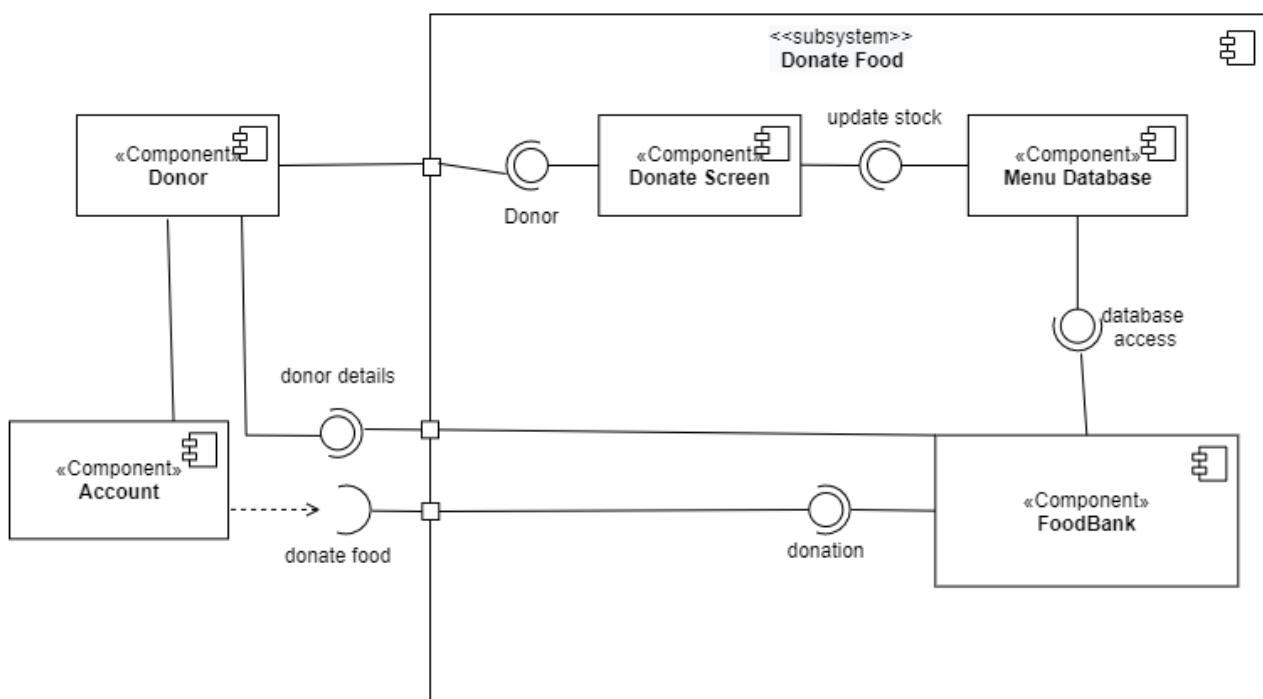


Figure 5.2e Donor's 'Donate' Component Diagram

Activity Diagram

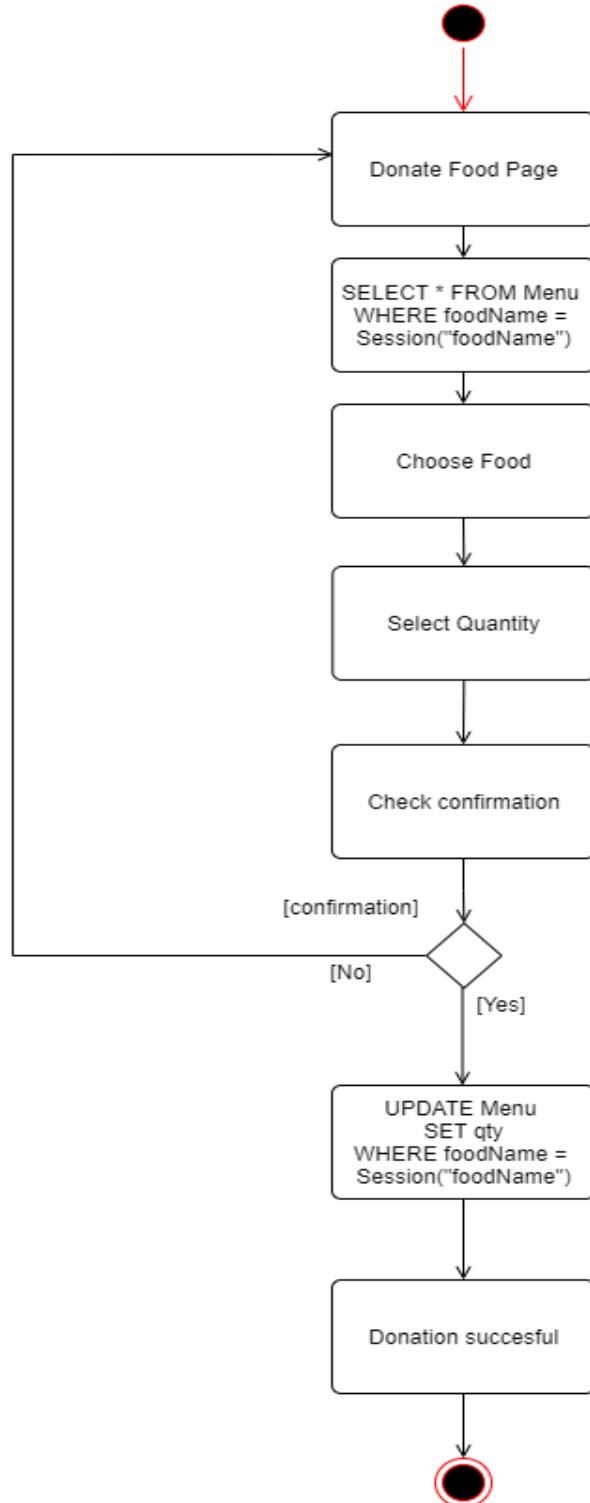


Figure 5.2f Donor's 'Donate Food' Activity Diagram

Pseudocode

BEGIN

Select food to donate

Donate food Button Selected

```
SELECT * FROM Menu WHERE foodName = Session("foodName")
```

foodBankName.Text = name

Confirm donation Button Selected

Save details regarding the donation of food into the Donor_Role(Database Attribute)

Update food item information to the specific Food Bank Inventory System

Display successful message

Donate Money

Component Diagram

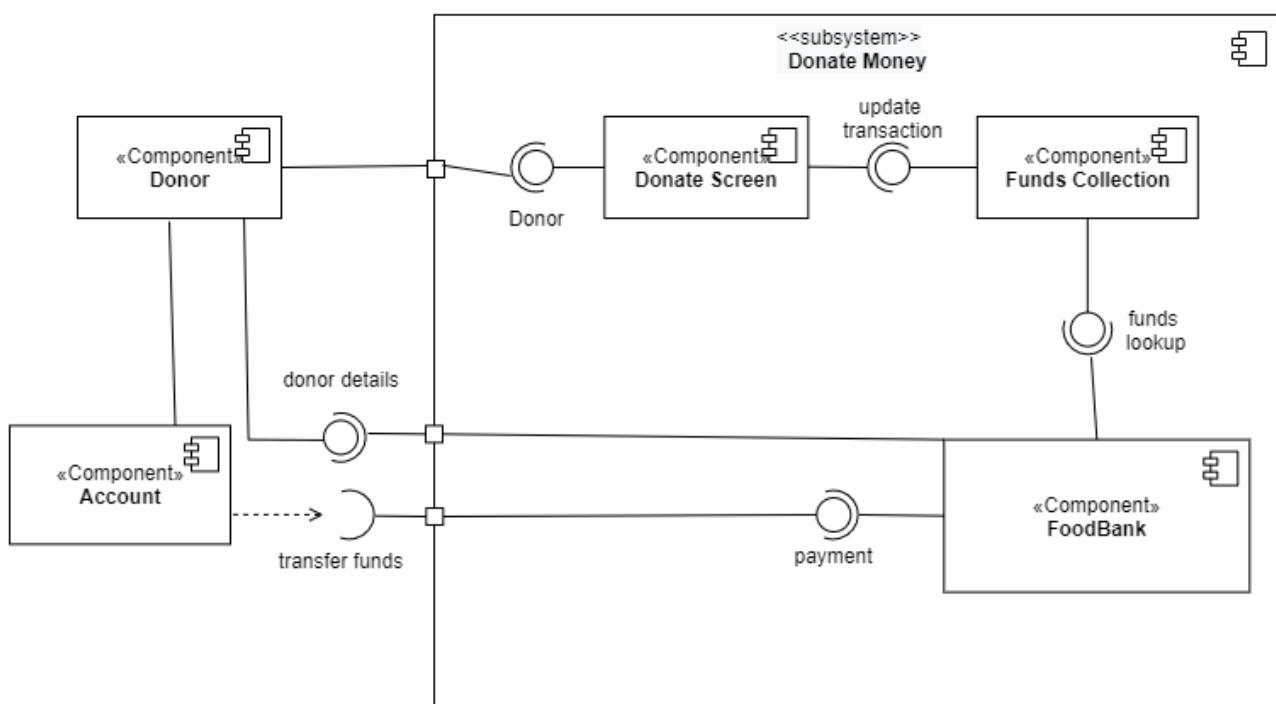


Figure 5.2g Donor's 'Donate Money' Component Diagram

Activity Diagram

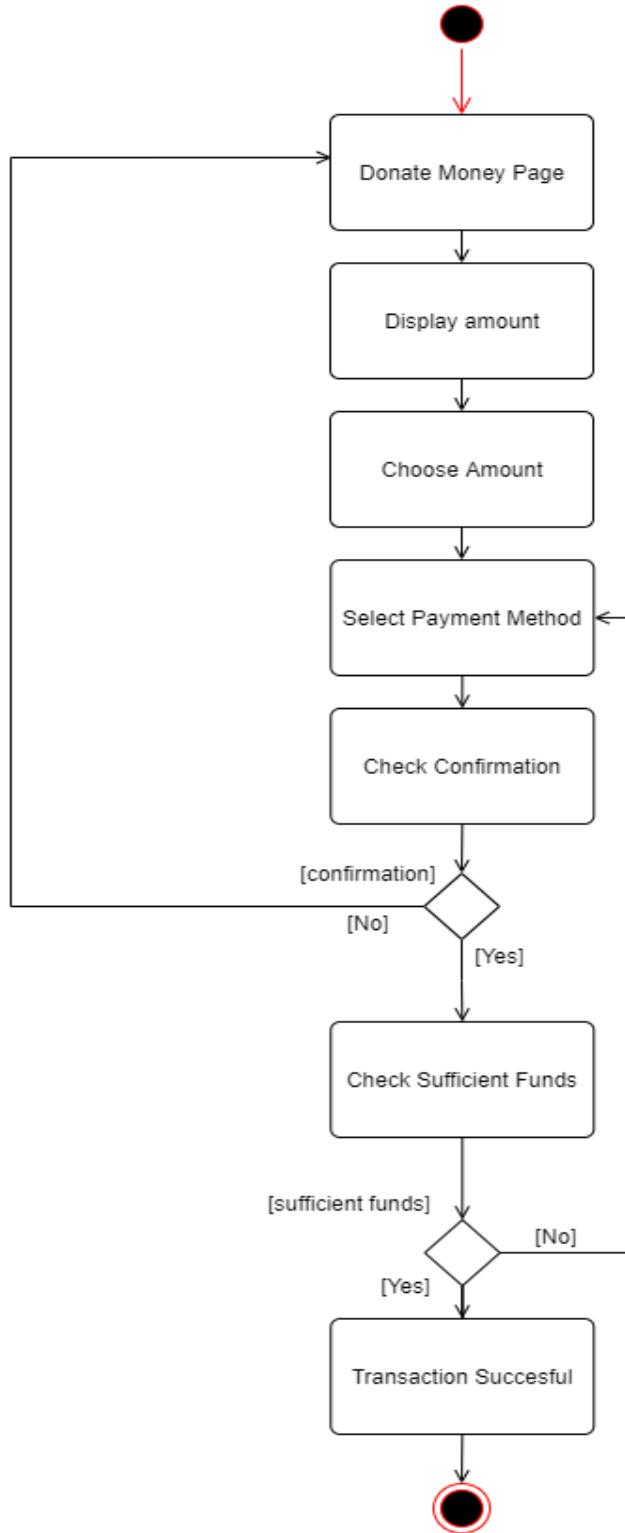


Figure 5.2h Donor's 'Donate Food' Activity Diagram

Pseudocode

```
BEGIN  
    GET Choice  
    GET Balance  
    IF (Choice == Amount) THEN  
        IF(Balance < Amount) THEN  
            PRINT "Insufficient Balance"  
        ELSE  
            totalFunds ← totalFunds + Amount  
        END IF  
    ELSE  
        PRINT "Incorrect funds"  
        Return to start  
    END IF  
END
```

View history of donations

Component Diagram

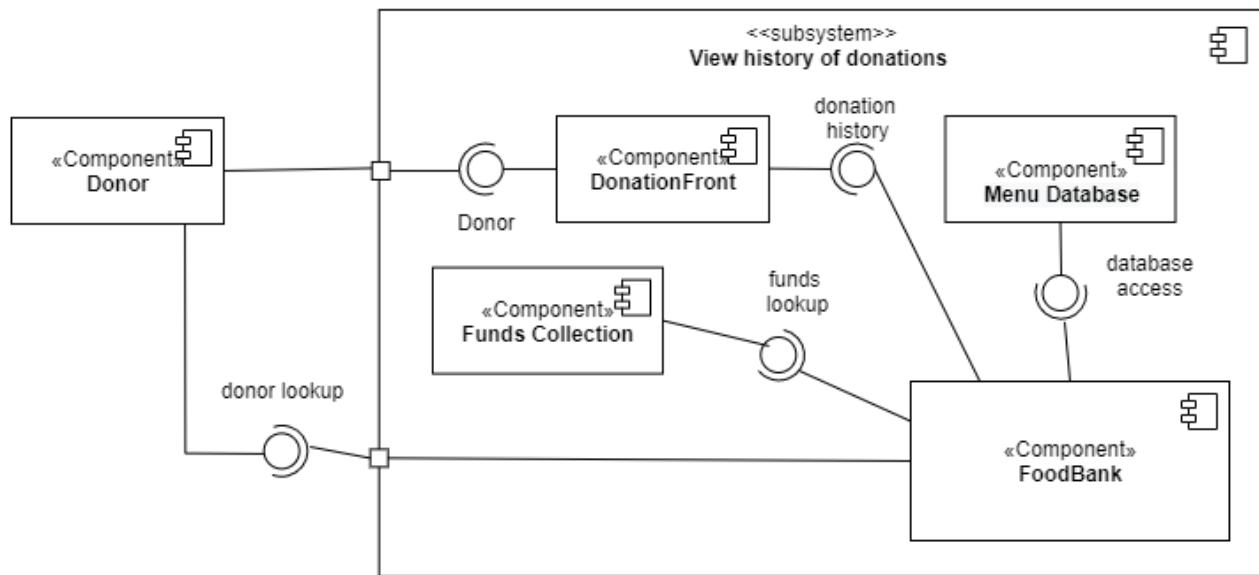


Figure 5.2i Donor's 'History of Donation' Component Diagram

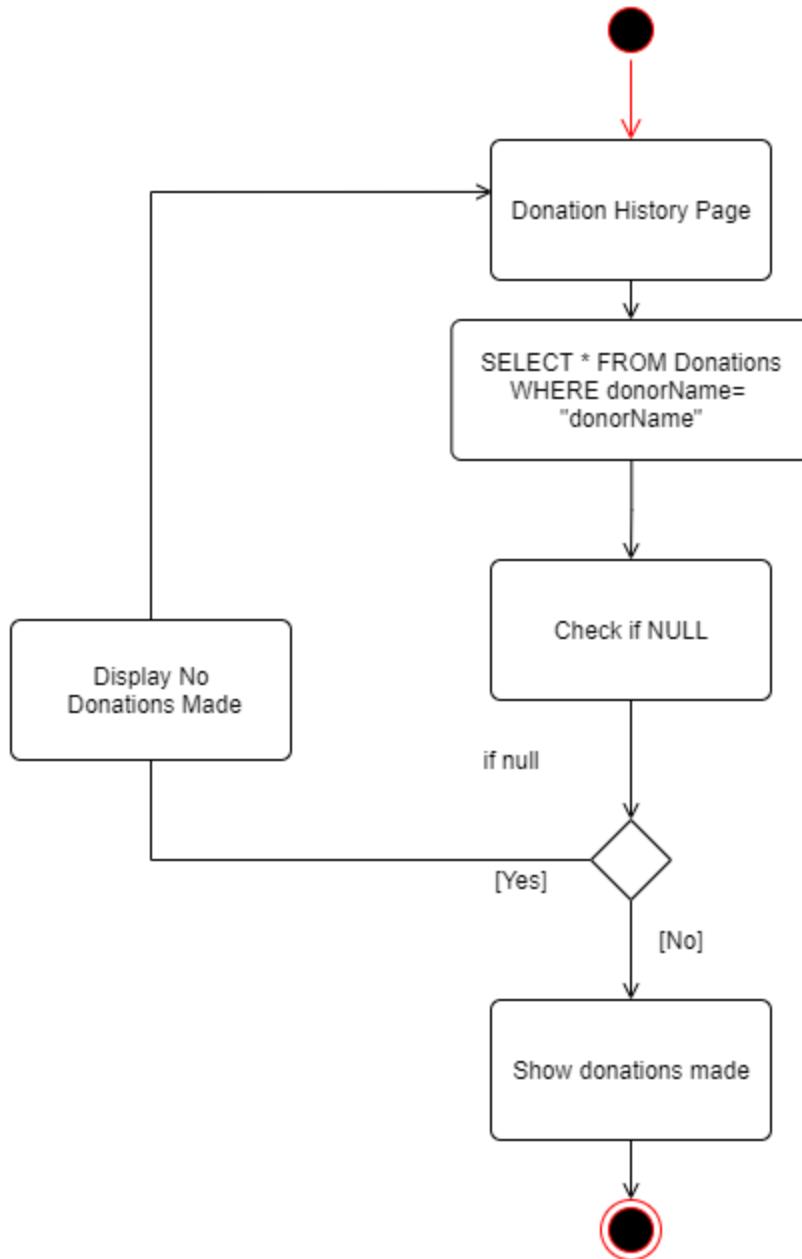
Activity Diagram

Figure 5.2j Donor's 'History of Donation' Activity Diagram

Pseudocode

```
BEGIN  
    IF (View history button selected) THEN  
        WHILE( SELECT*FROM Donations != NULL)  
            PRINT Donations Made  
        Display Community Page  
    END IF  
END
```

View foods low on stock

Component Diagram

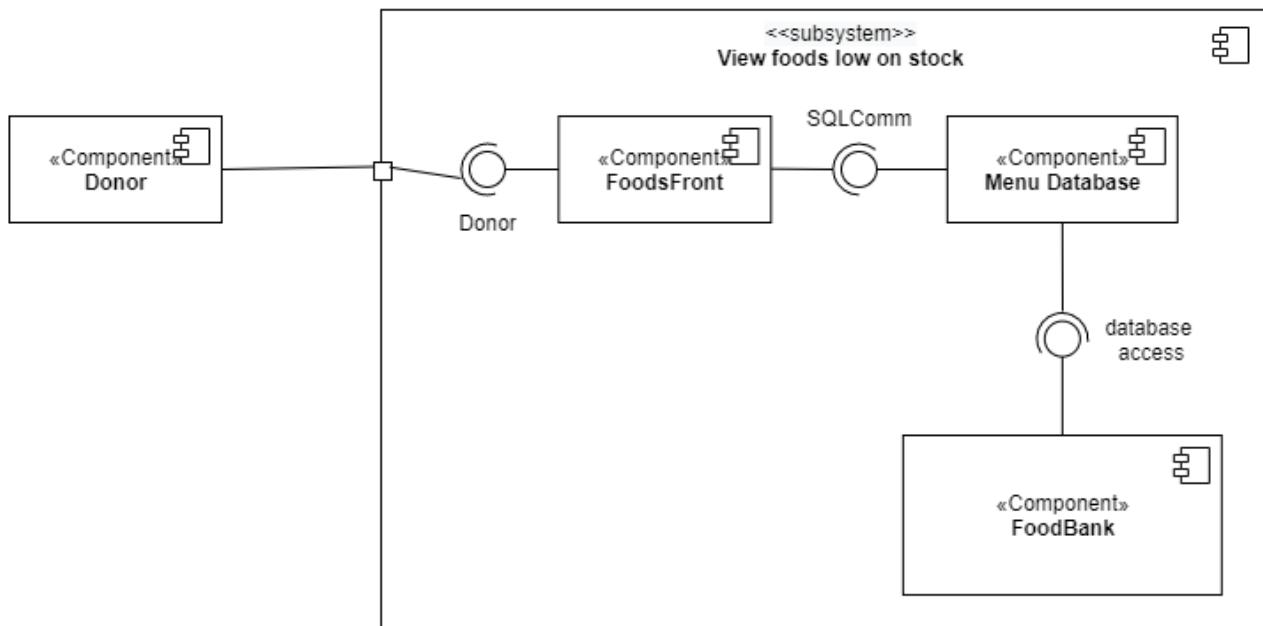


Figure 5.2k Donor's 'Foods low on stock' Component Diagram

Activity Diagram

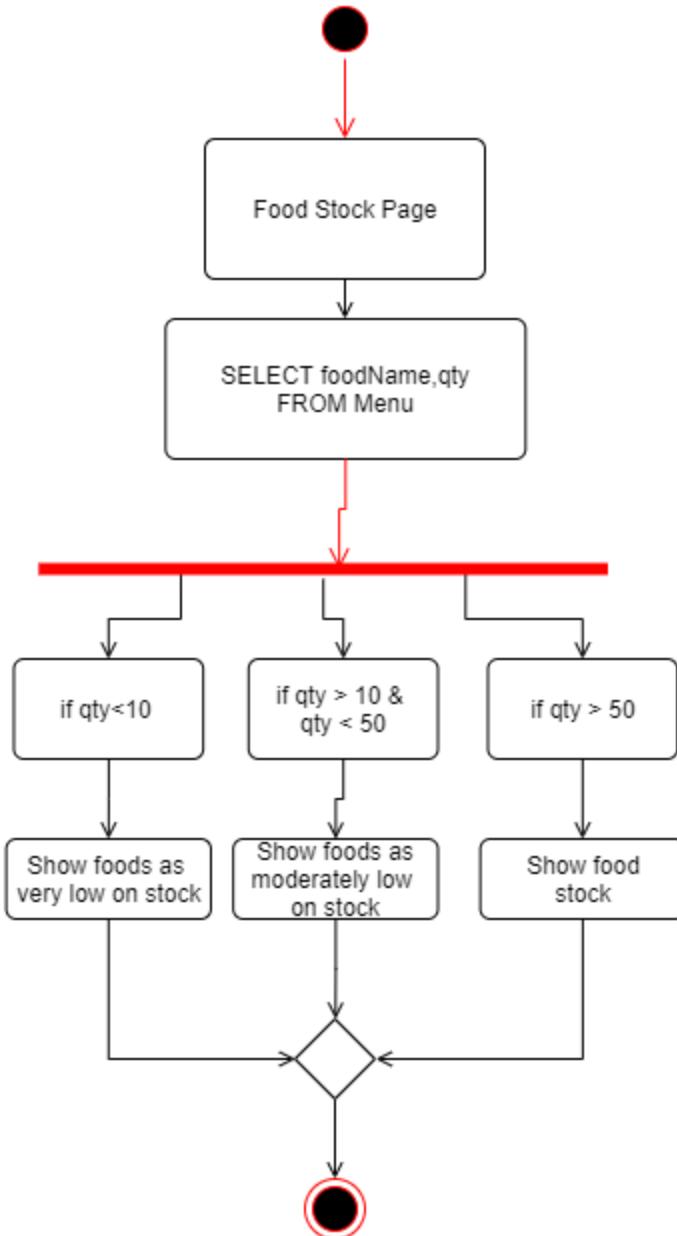


Figure 5.21 Donor's 'Foods low on stock' Activity Diagram

Pseudocode

```

BEGIN

IF (Show Food Stock page selected) THEN
    SELECT foodName, qty
    FROM Menu
    IF (qty< 10) THEN
        PRINT foods very low on stock
    ELSE IF (qty >10 & qty < 50 ) THEN
        PRINT foods moderately low on stock
    ELSE
        PRINT food stock
    END IF

END IF

END

```

Find food bank locations

Component Diagram

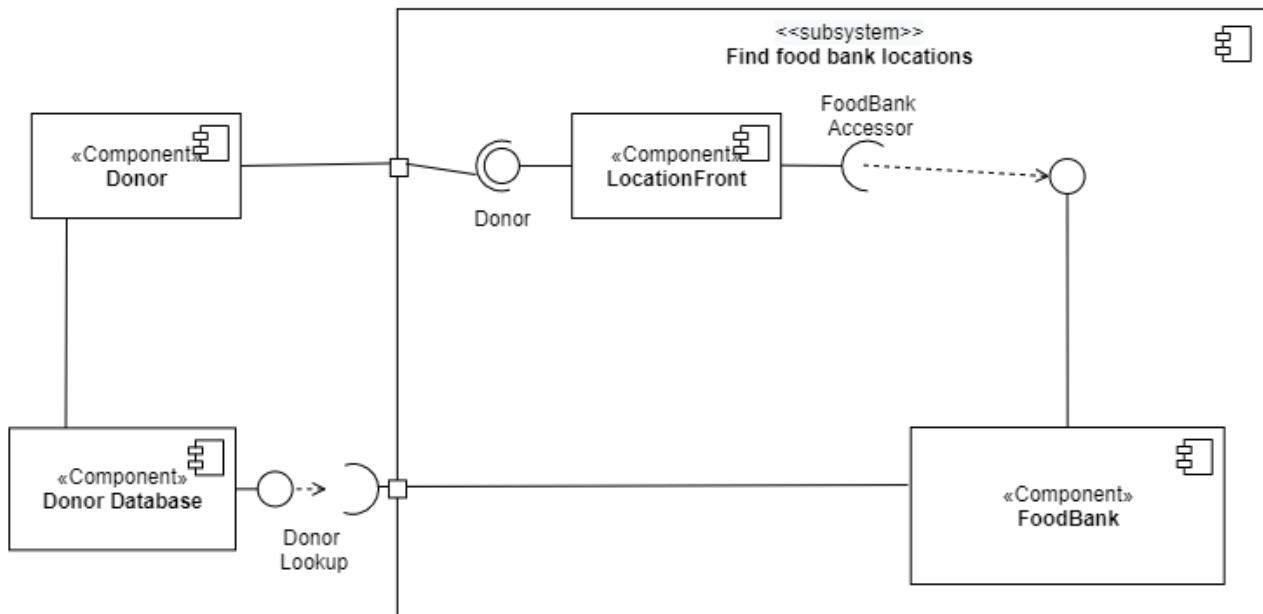


Figure 5.2m Donor's 'Find Food Bank' Component Diagram

Activity Diagram

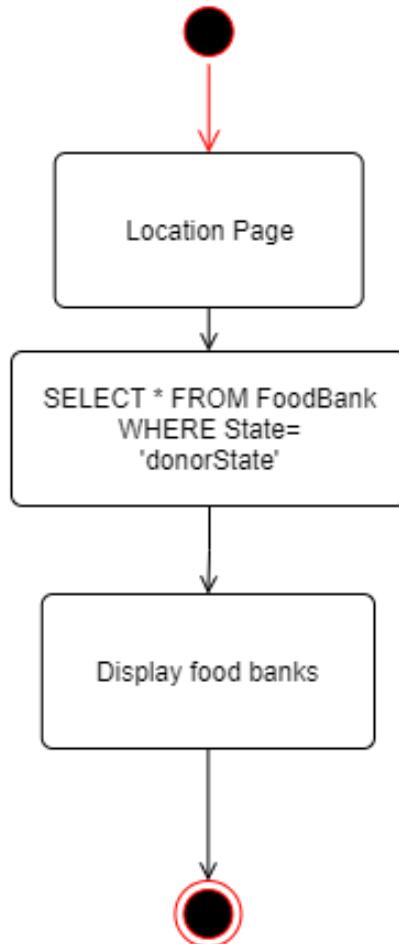


Figure 5.2n Donor's 'Find Food Bank' Activity Diagram

Pseudocode

```
BEGIN
    IF( Location Page selected) THEN
        SELECT * FROM FoodBank WHERE State = "donorState"
        PRINT Food Banks
    END IF
END
```

Distributor

Signup

Component Diagram

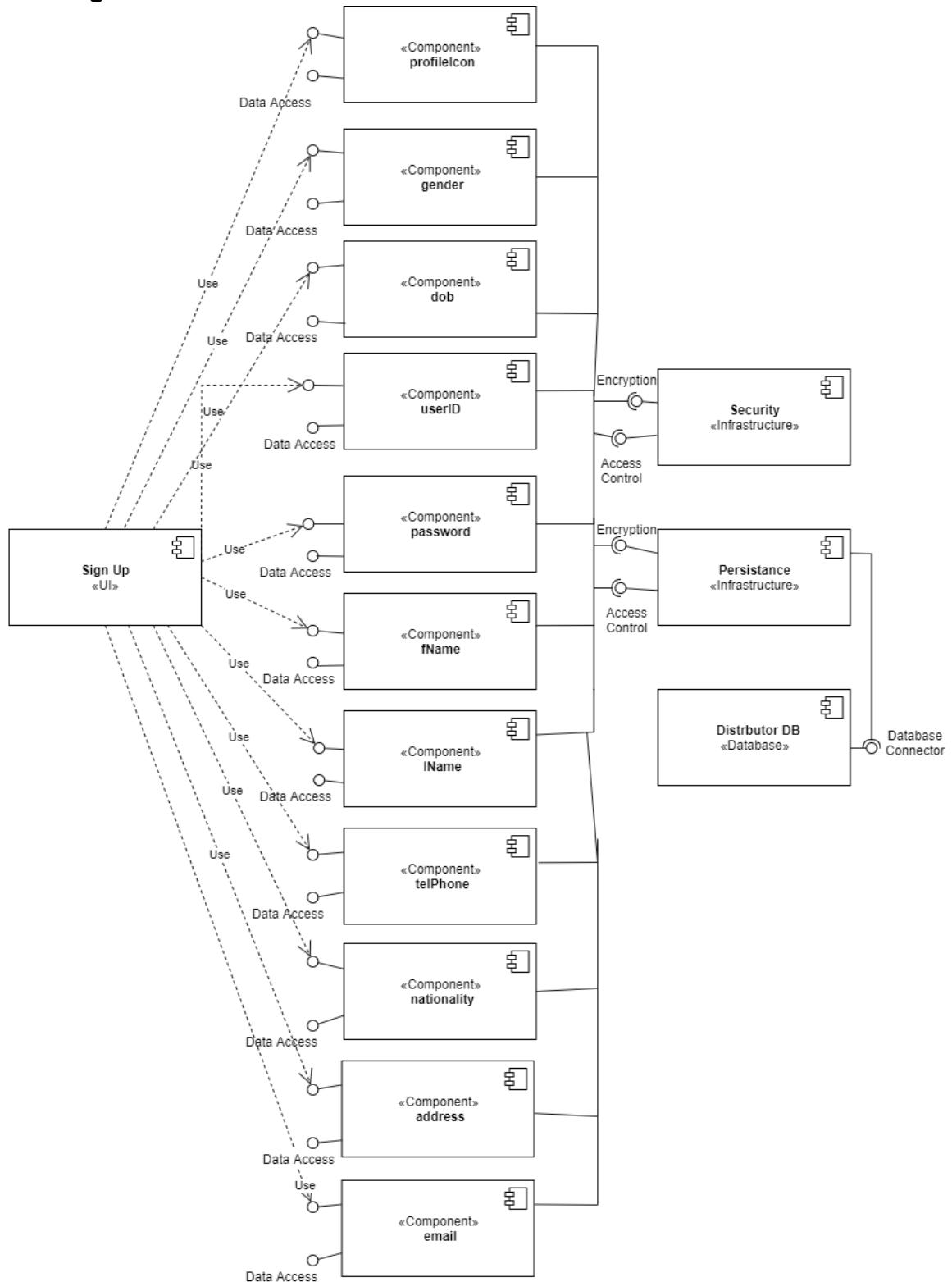


Figure 5.3a Distributor's "Signup" component diagram

Activity Diagram

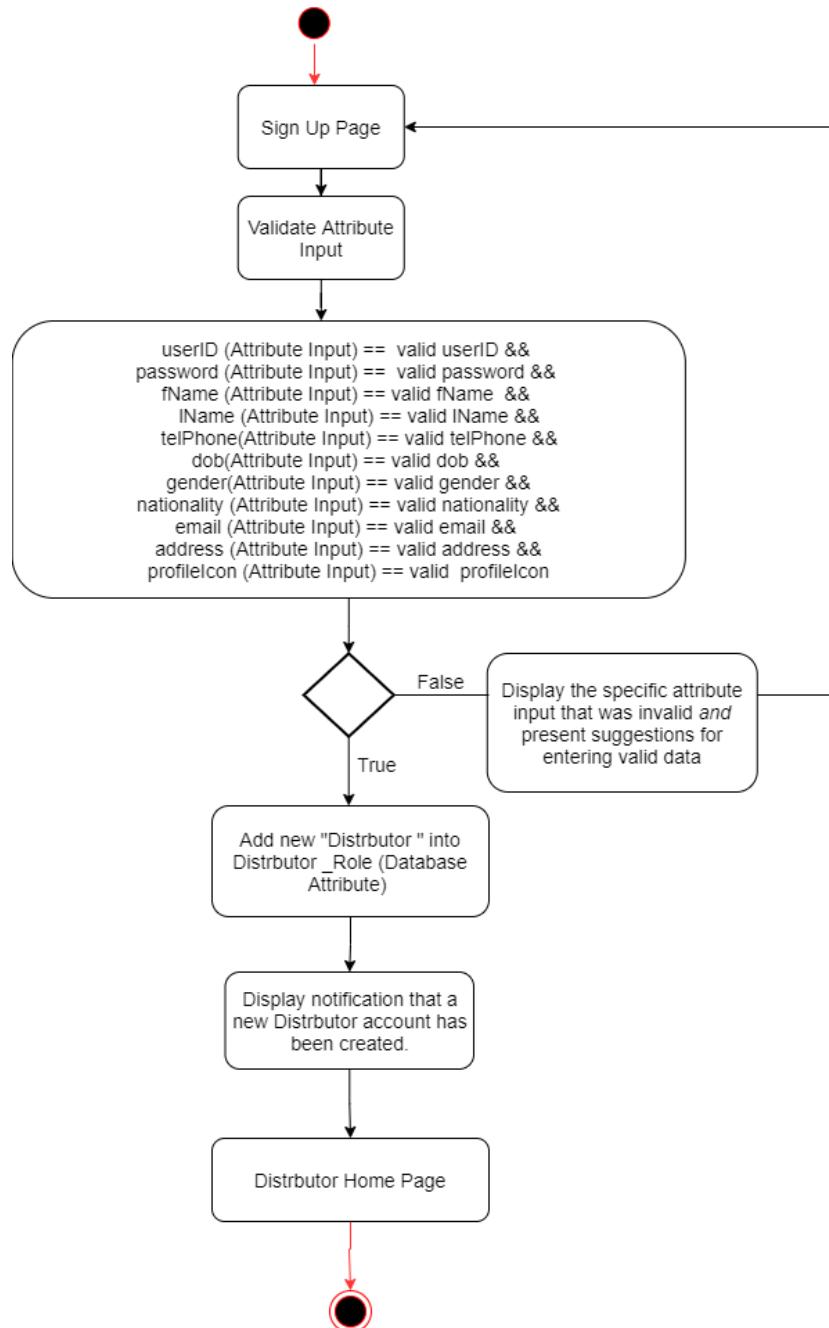


Figure 5.3b Distributor's "Signup" activity diagram

Psuedocode

GET userID
GET password
GET fName
GET lName
GET telPhone
GET dob
GET gender
GET nationality
GET email
GET address
GET profileIcon

IF (Entered userID == valid userID && Entered password == valid password && Entered fName == valid fName && Entered lName == valid lName && Entered telPhone == valid telPhone && Entered dob == valid dob && Entered gender == valid gender && Entered nationality == valid nationality && Entered email == valid email && Entered address == valid address && Entered profileIcon == valid profileIcon) **THEN**

Save New Distributor's Details into the Distributor_Role(Database Attribute)

Display notification that a new Distributor account has been created (Sign Up Successful)

Go to the Distributor Home Page

ELSE

Sign Up Failed

Display the specific attribute input that was invalid *and* present suggestions for entering valid data

Return to the Sign Up page

END IF

Login

Component Diagram

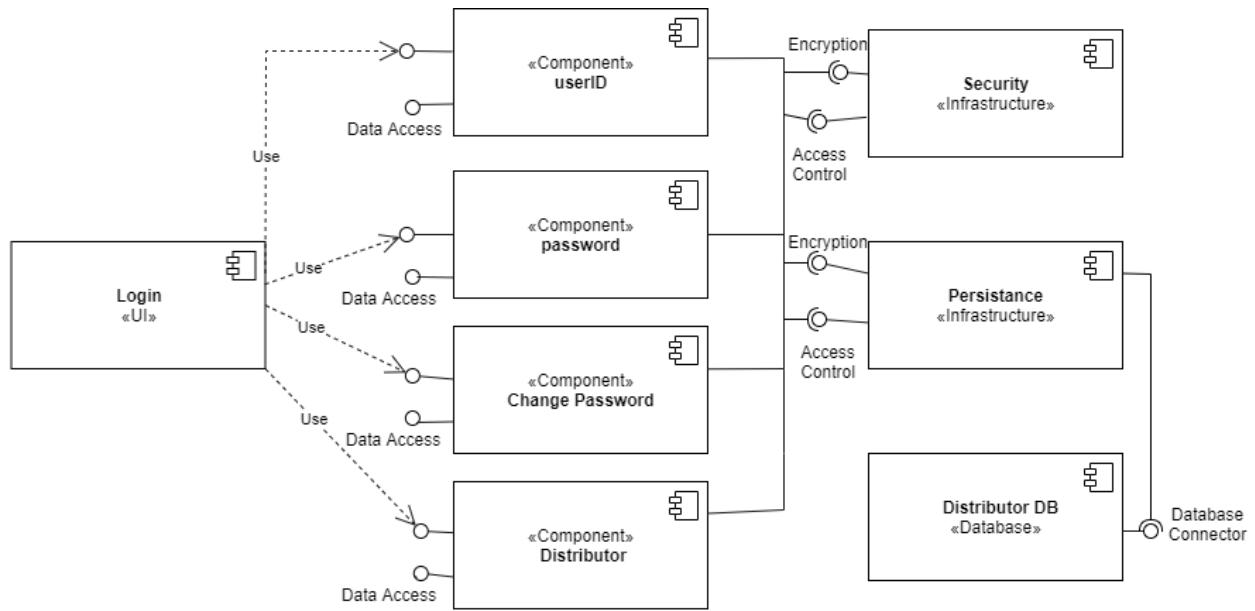


Figure 5.3c Distributor's "Login" component diagram

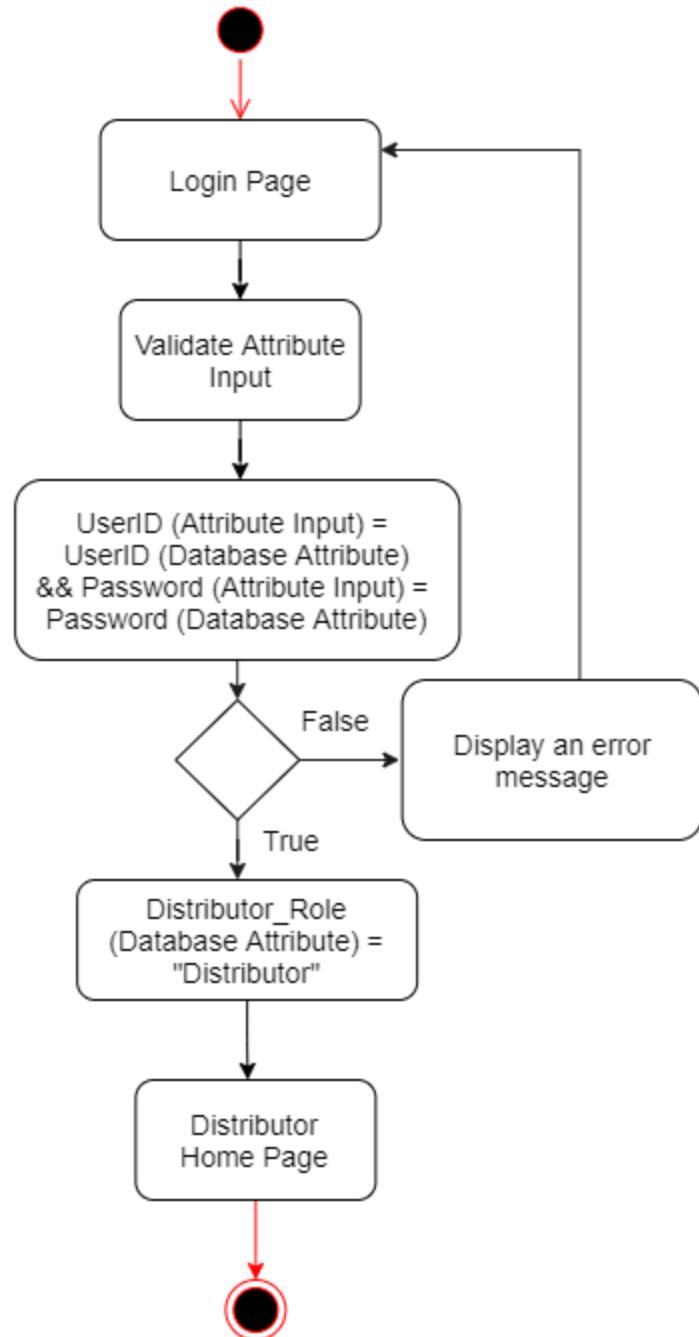
Activity Diagram

Figure 5.3d Distributor's "Login" activity diagram

Pseudocode

GET userID
GET password

IF (userID == EnteredUserID && password == EnteredPassword) **THEN**
 Login Successful
 Go to the Distributor Home Page

ELSE

 Login Failed
 Return to the login page

END IF

Search for nearby foodbank locations

Component Diagram

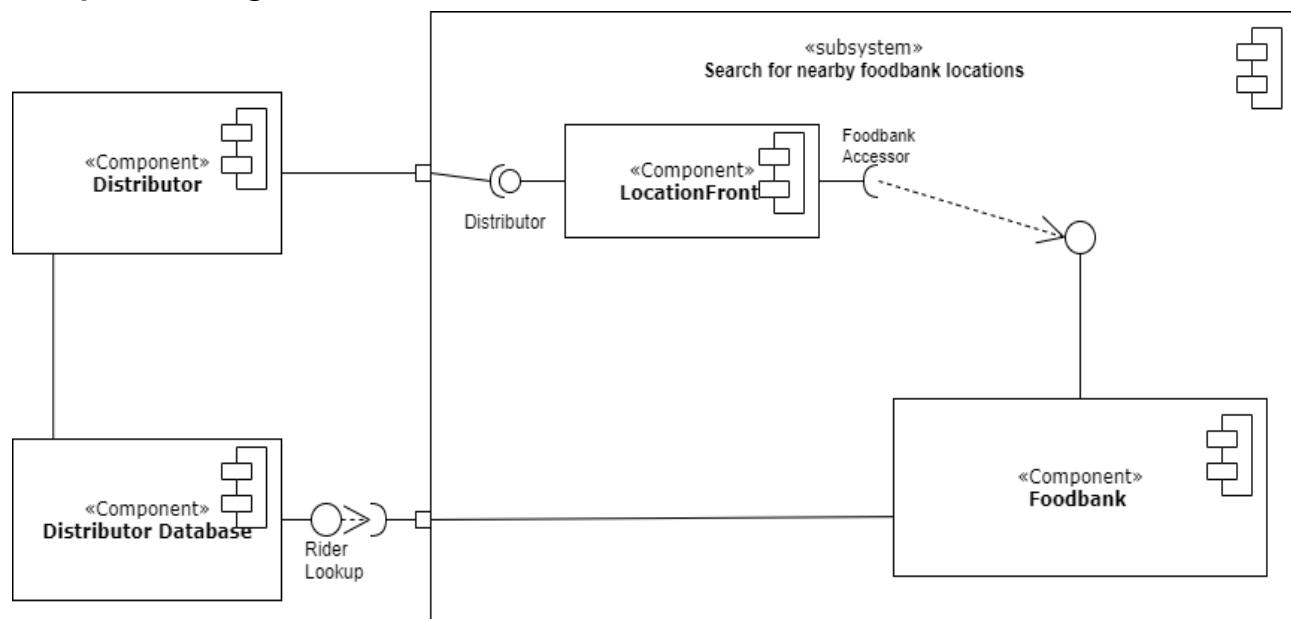


Figure 5.3e Distributor's 'Search for nearby foodbank locations' component diagram

Activity Diagram

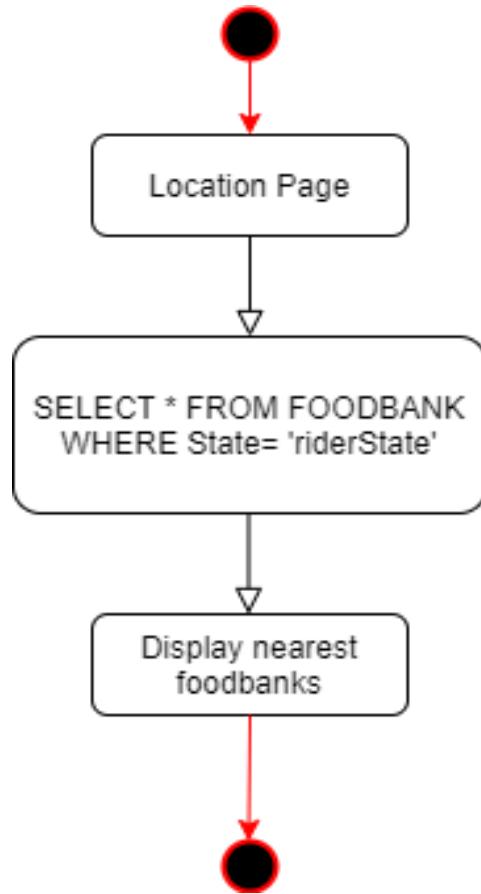


Figure 5.3f Distributor's 'Search for nearby foodbank locations' activity diagram

Pseudocode

```
BEGIN
    IF( Location Page selected) THEN
        SELECT * FROM FoodBank WHERE State = "riderState"
        PRINT Food Banks
    END IF
END
```

Check status of reserved food

Component Diagram

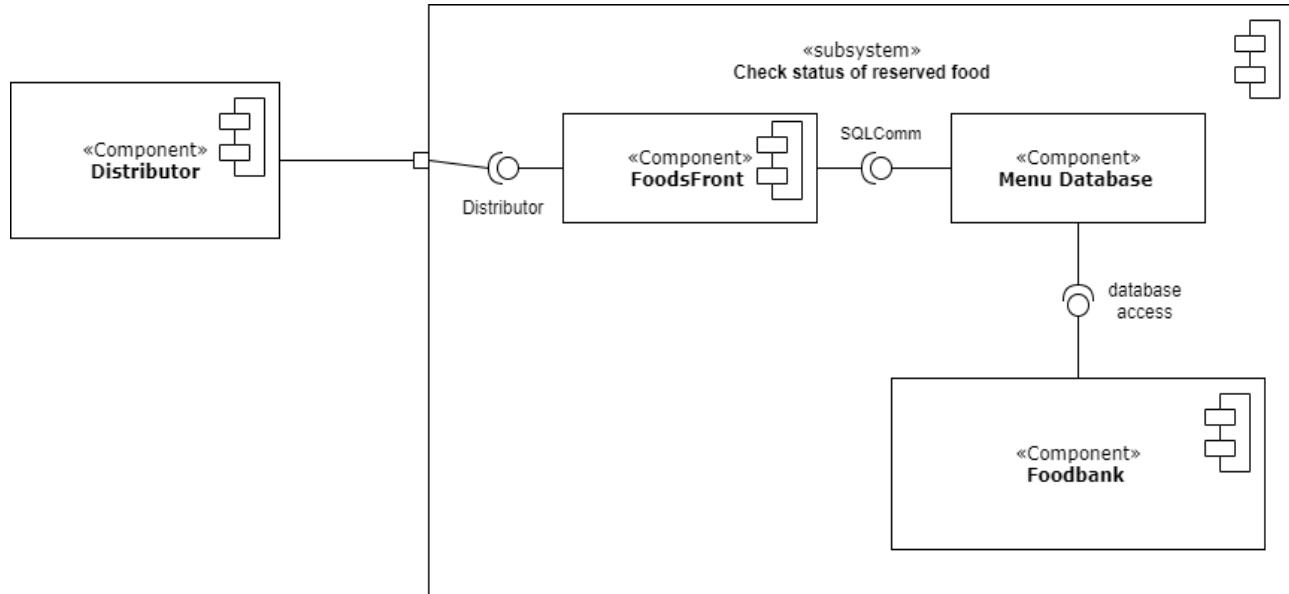


Figure 5.3g Distributor's 'Check status of reserved food' component diagram

Activity Diagram

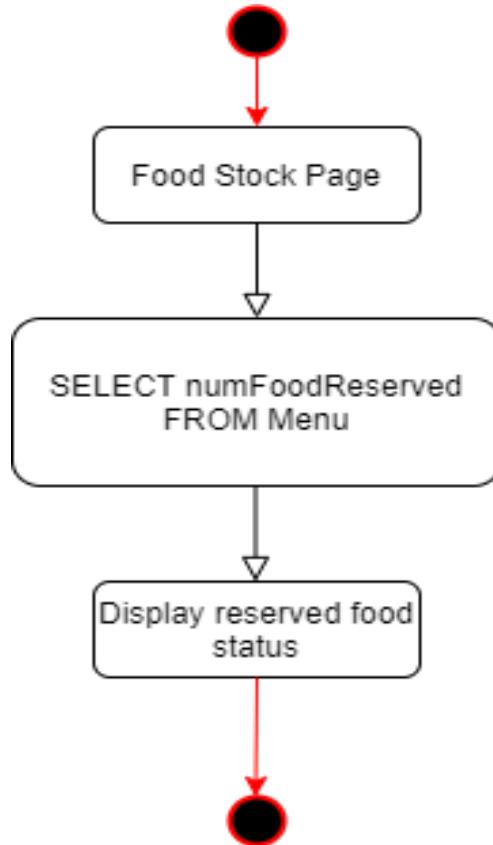


Figure 5.3h Distributor's 'Check status of reserved food' activity diagram

Pseudocode

```
BEGIN
  IF (Show Food Stock page selected) THEN
    SELECT numFoodReserved
    FROM Menu
    PRINT reserved food status
  END IF
END
```

Pick up food

Component Diagram

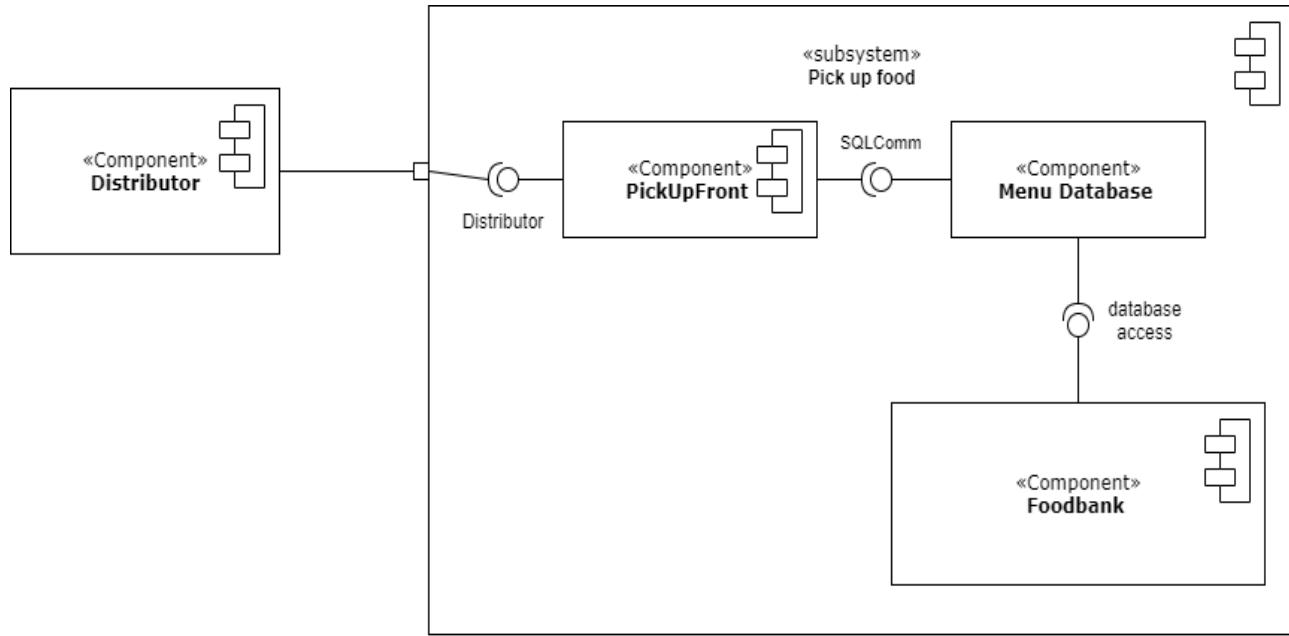


Figure 5.3i Distributor's 'Pick up Food' component diagram

Activity Diagram

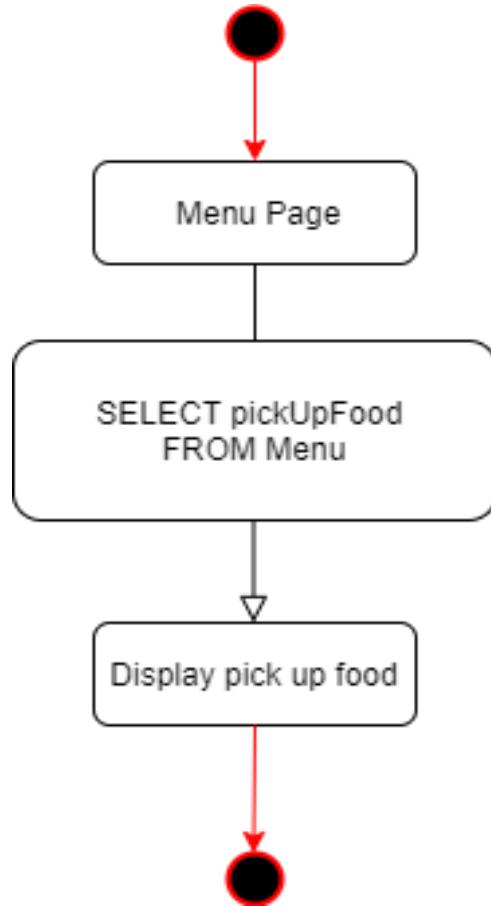


Figure 5.3j Distributor's 'Pick up Food' activity diagram

Pseudocode

```
BEGIN  
  IF (Show Menu page selected) THEN  
    SELECT pickUpFood  
    FROM Menu  
    PRINT Pick up food  
  END IF  
END
```

View delivery status

Component Diagram

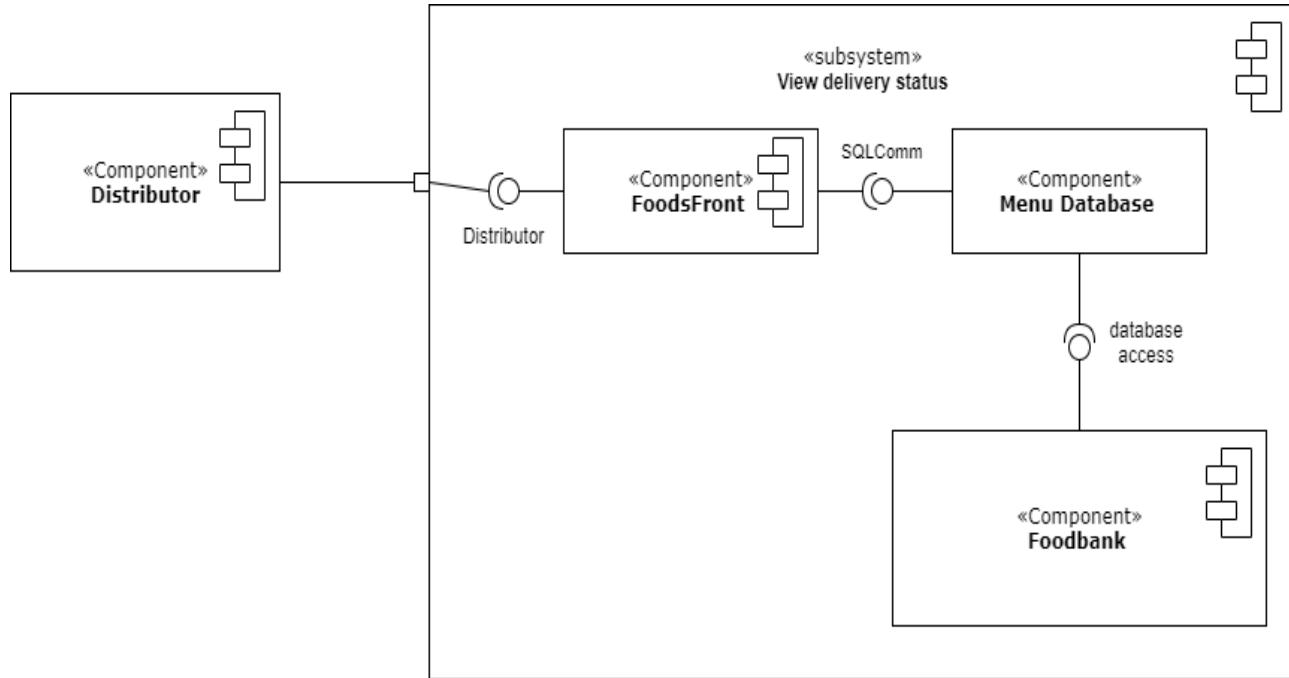


Figure 5.3k Distributor's 'View delivery status' component diagram

Activity Diagram

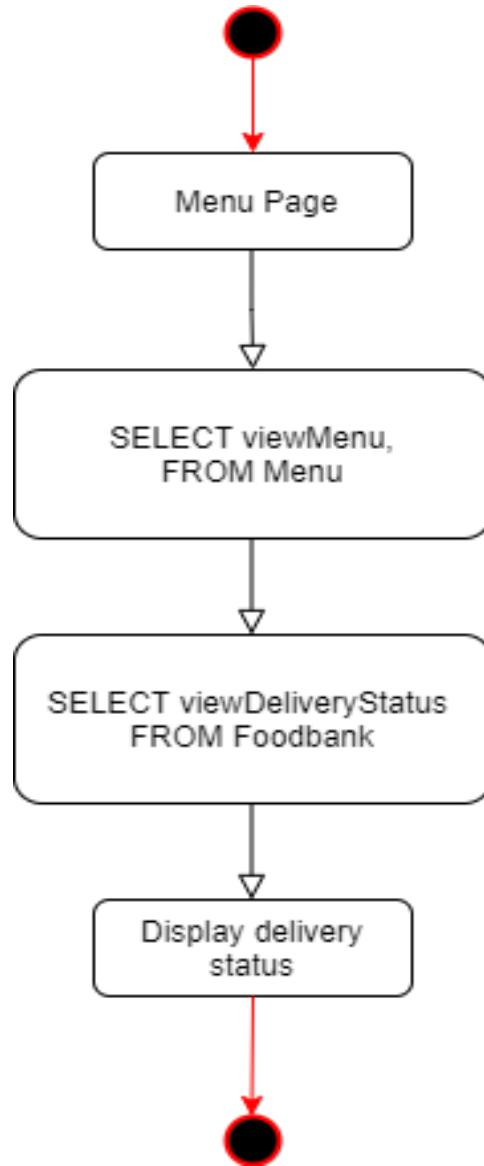


Figure 5.3I Distributor's 'View delivery status' activity diagram

Pseudocode

BEGIN

IF (Show Menu page selected) THEN
 SELECT viewMenu

```

FROM Menu
IF (Show Foodbank page selected) THEN
    SELECT viewDeliveryStatus
    FROM Foodbank
END IF

PRINT delivery status

END IF

END

```

Drop off food

Component Diagram

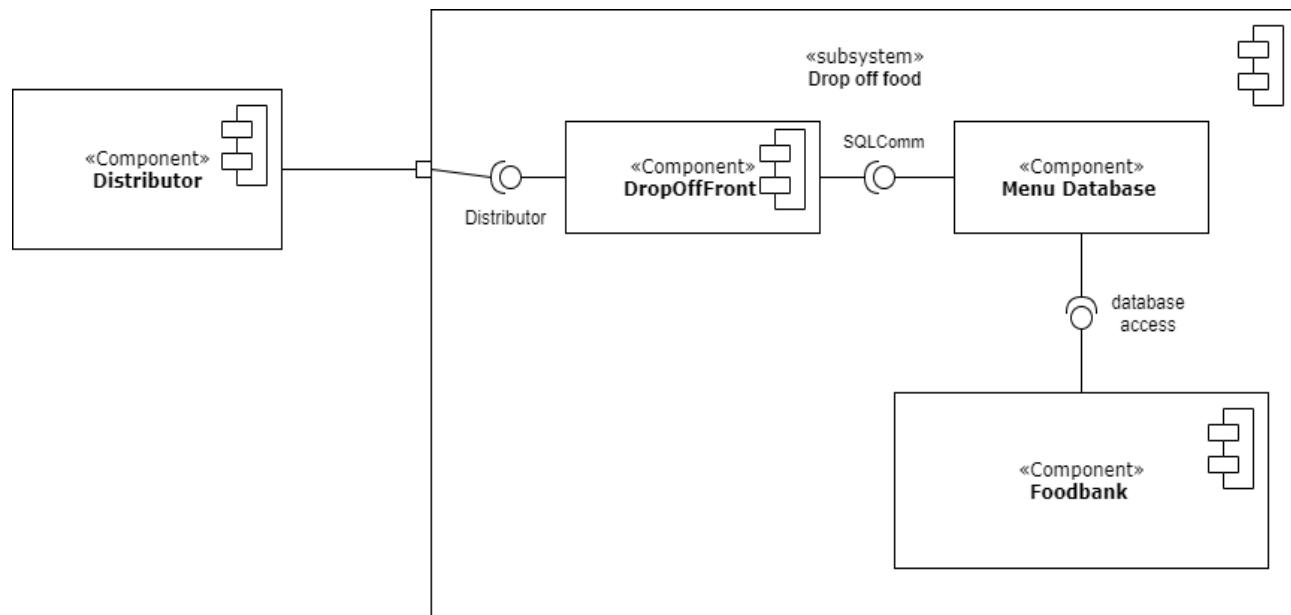


Figure 5.3m Distributor's 'Drop off Food' component diagram

Activity Diagram

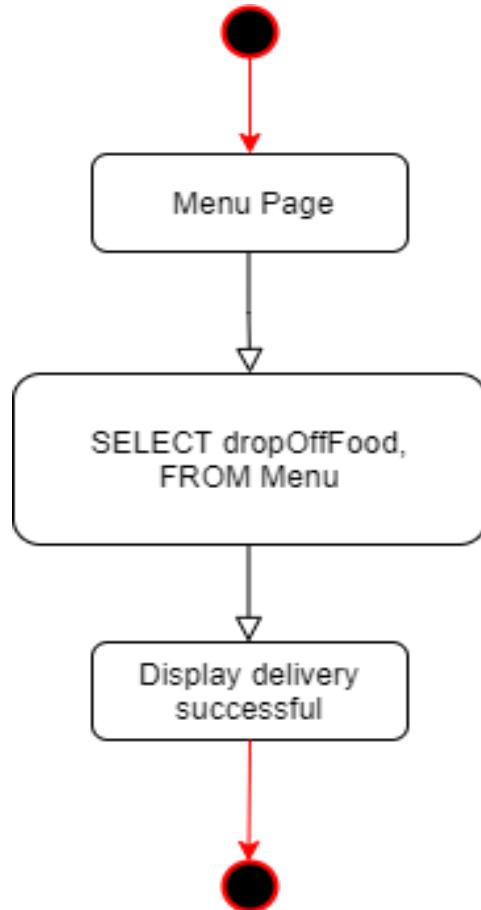


Figure 5.3n Distributor's 'Drop off Food' activity diagram

Pseudocode

```
IF (Show Menu page selected) THEN
    SELECT dropOffFood
    FROM Menu
    PRINT delivery successful
END IF

END
```

Admin

Login

Component Diagram

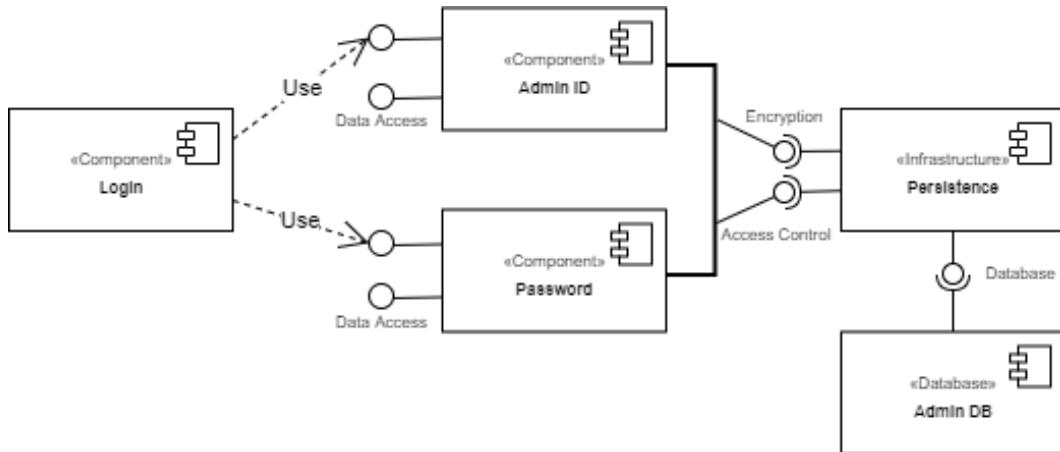


Figure 5.4a Admin's Login Component Diagram

Activity Diagram

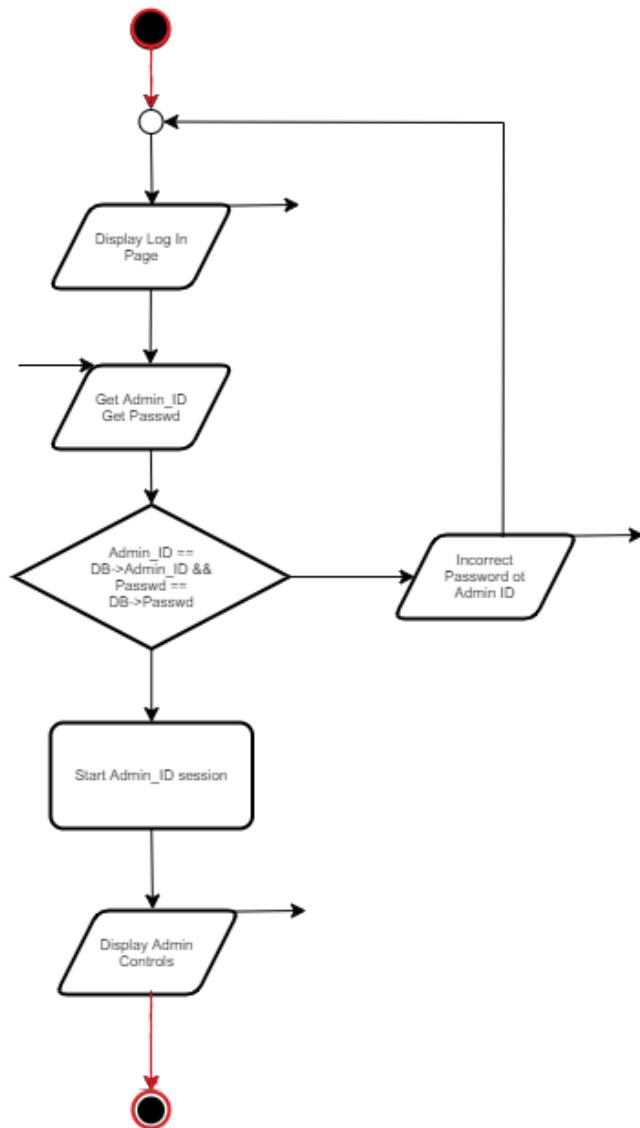


Figure 5.4b Admin's Login Activity Diagram

Pseudocode

```
DISPLAY Login_Screen
GET Admin_ID
GET Passwd

if(DB->Admin_ID == Admin_ID && DB->Passwd == Passwd)
    SET current_Session = Admin_ID
    DISPLAY Admin_Controls
```

User Controls

Component Diagram

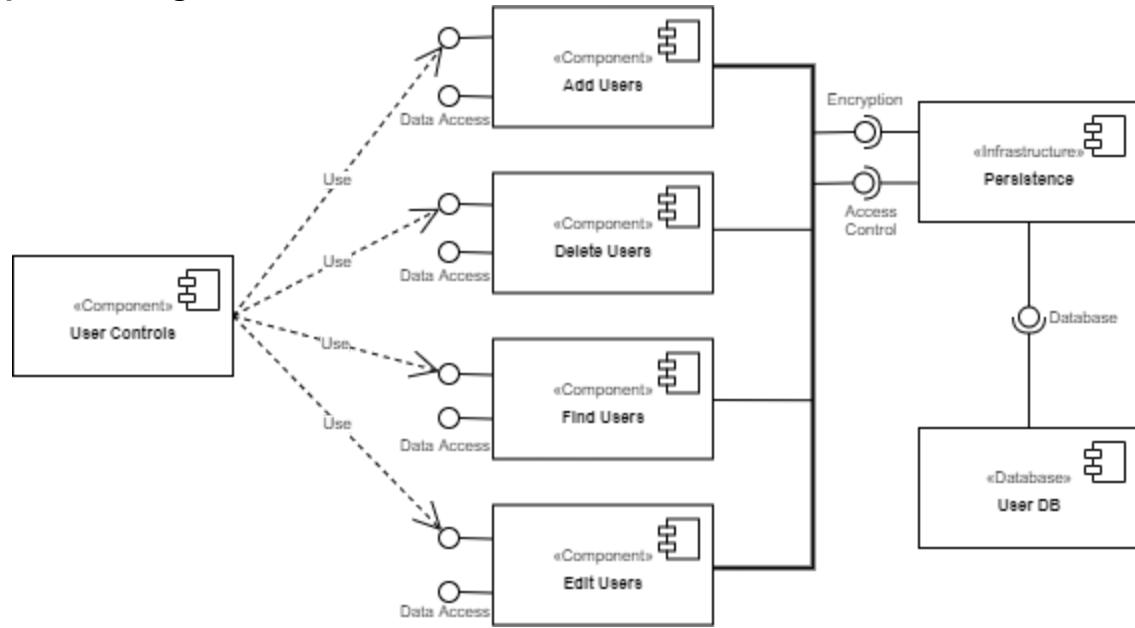


Figure 5.4c Admin's User Controls Component Diagram

Activity Diagram

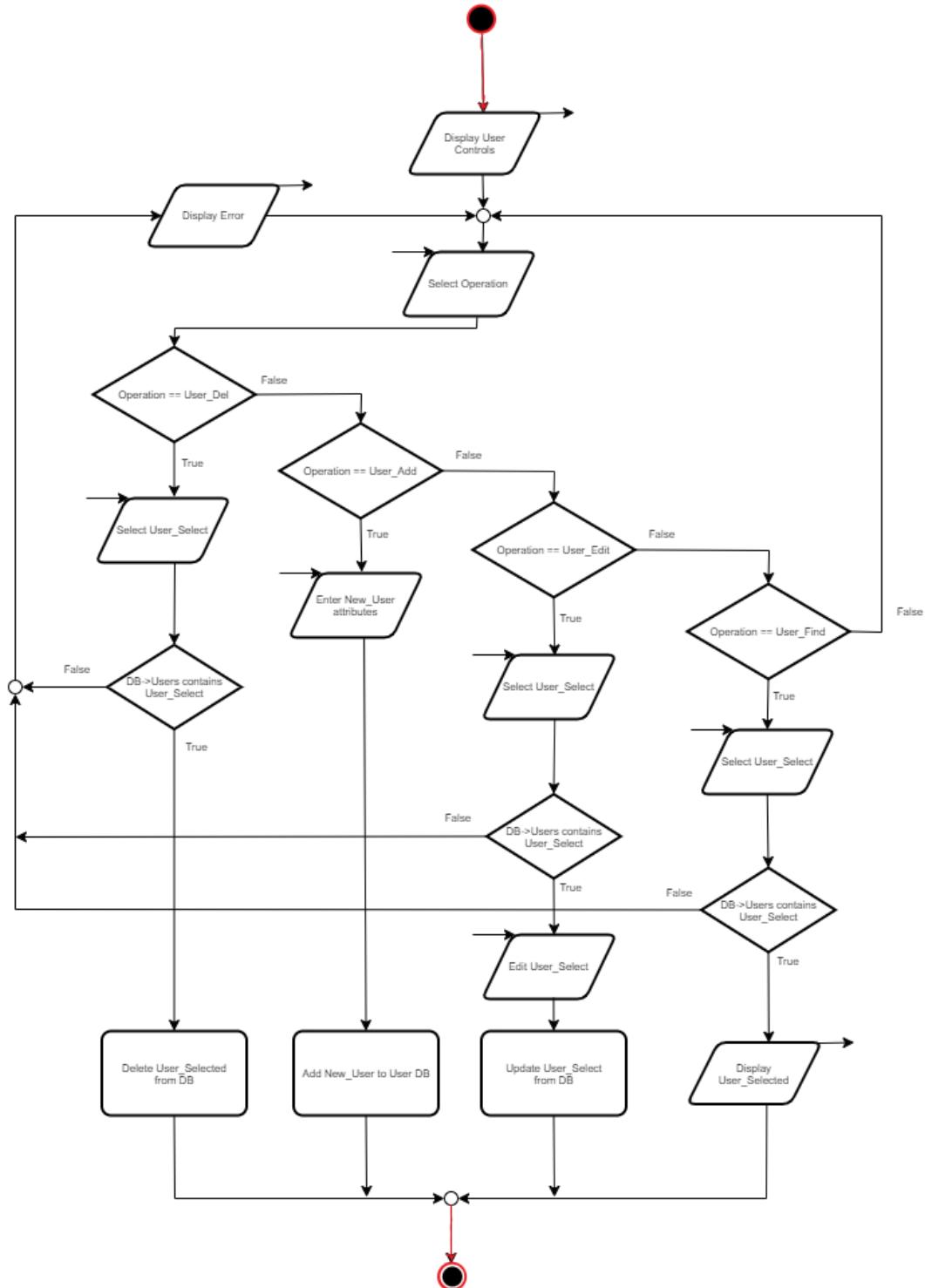


Figure 5.4d Admin's User Controls Activity Diagram

Pseudocode

DISPLAY User_Controls

GET Operation

CASE Operation

User_Delete:

 GET User_Select
 IF(DB->Users == User_Select)
 DELETE User_Select
 ELSE
 DISPLAY Error

User_Add:

 GET New_User(Attributes)
 ADD New_User to DB->Users

User_Edit:

 GET User_Select
 IF(DB->Users == User_Select)
 GET User_Select(Attributes)
 UPDATE DB->Users(User_Select)
 ELSE
 DISPLAY Error

User_Find:

 GET User_Select
 IF(DB->Users == User_Select)
 DISPLAY User_Select from DB->Users
 ELSE
 DISPLAY Error

Food Bank Report Controls

Component Diagram

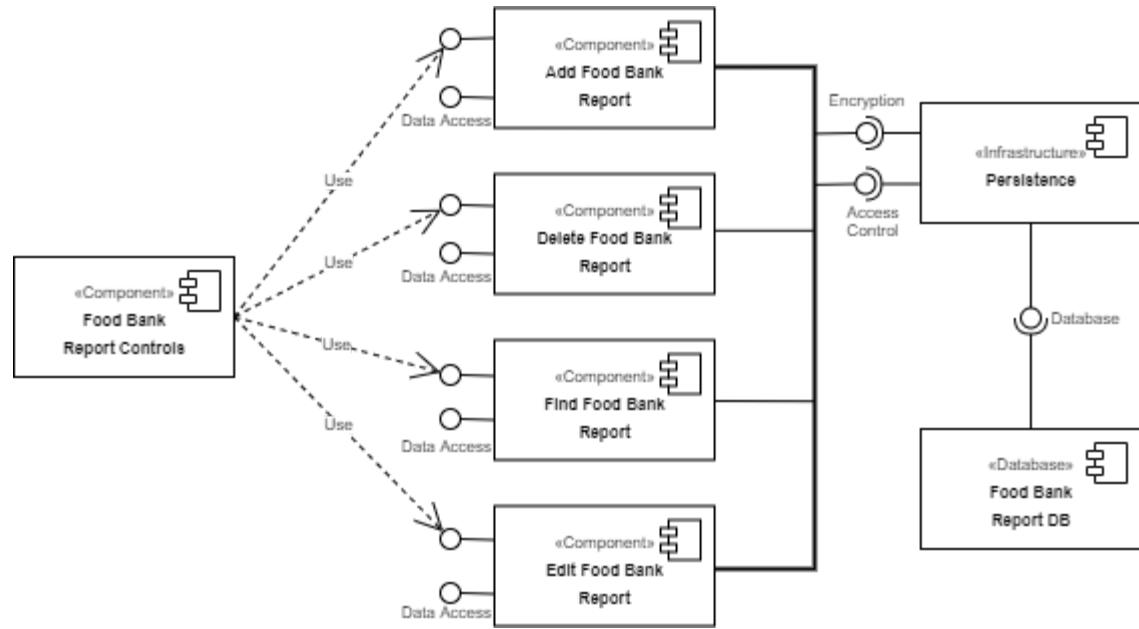


Figure 5.4e Admin's Food Bank Report Controls Component Diagram

Activity Diagram

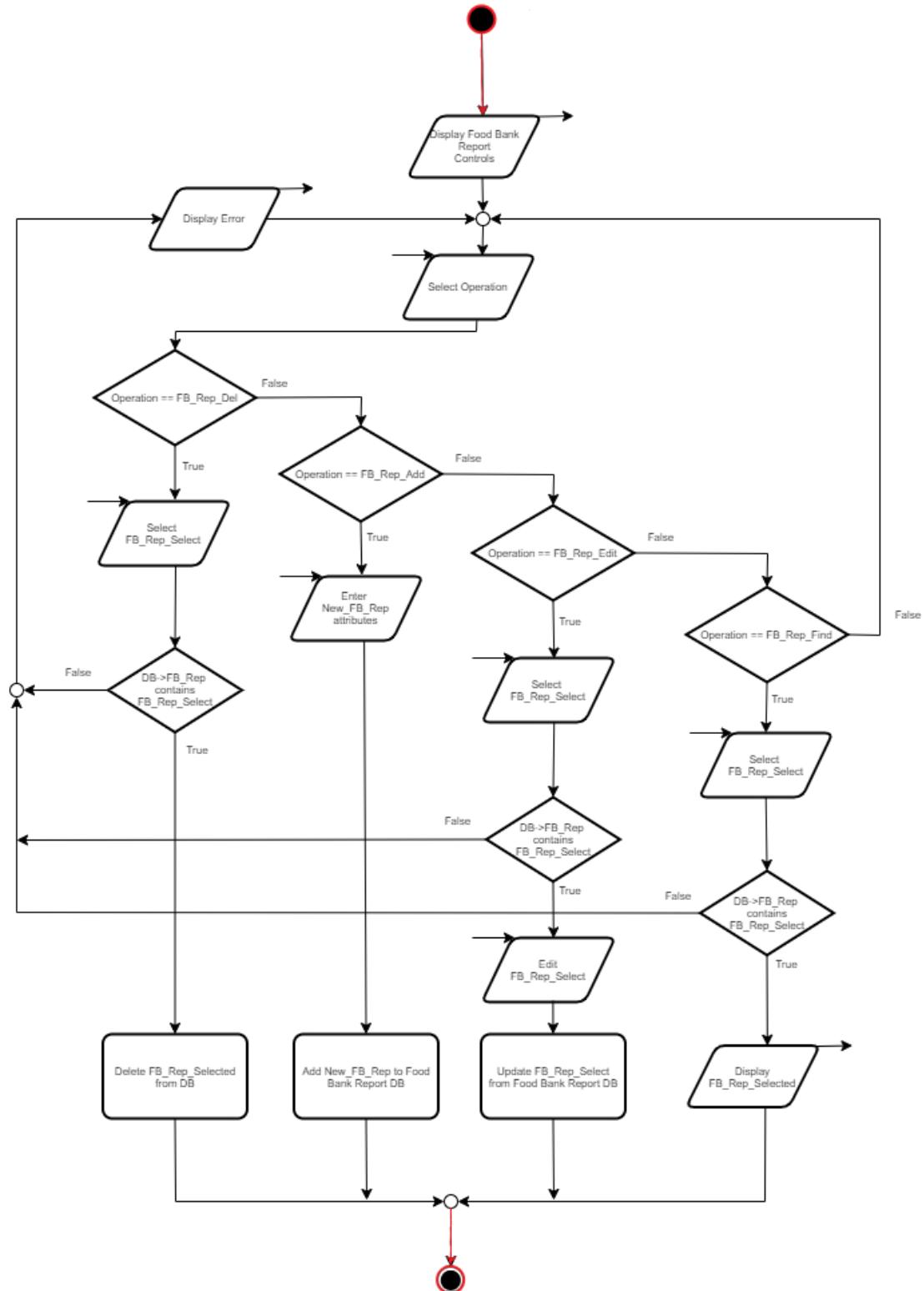


Figure 5.4f Admin's Food Bank Report Controls Activity Diagram

Pseudocode

DISPLAY FB_Rep_Controls

GET Operation

CASE Operation

 FB_Rep_Delete:

 GET FB_Rep_Select

 IF(DB->FB_Rep == FB_Rep_Select)

 DELETE FB_Rep_Select

 ELSE

 DISPLAY Error

 FB_Rep_Add:

 GET New_FB_Rep(Attributes)

 ADD New_FB_Rep to DB->FB_Rep

 FB_Rep_Edit:

 GET FB_Rep_Select

 IF(DB->FB_Rep== FB_Rep_Select)

 GET FB_Rep_Select(Attributes)

 UPDATE DB->FB_Rep(FB_Rep_Select)

 ELSE

 DISPLAY Error

 FB_Rep_Find:

 GET FB_Rep_Select

 IF(DB->FB_Rep == FB_Rep_Select)

 DISPLAY FB_Rep_Select from DB->FB_Rep

 ELSE

 DISPLAY Error

Distribution Location Controls

Component Diagram

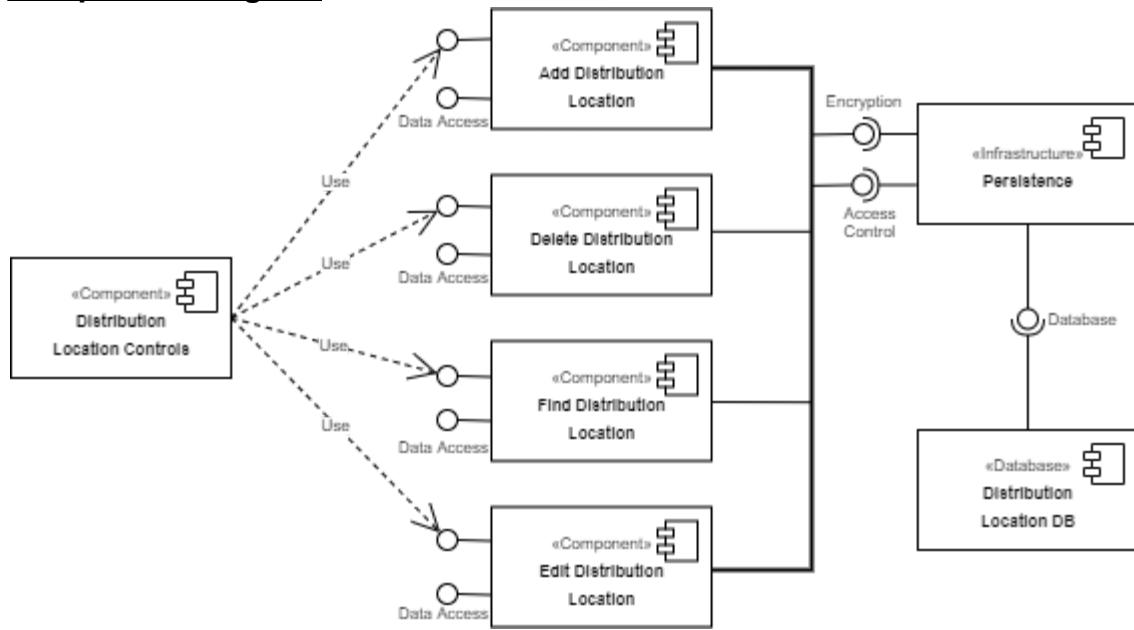


Figure 5.4g Admin's Distribution Location Controls Component Diagram

Activity Diagram

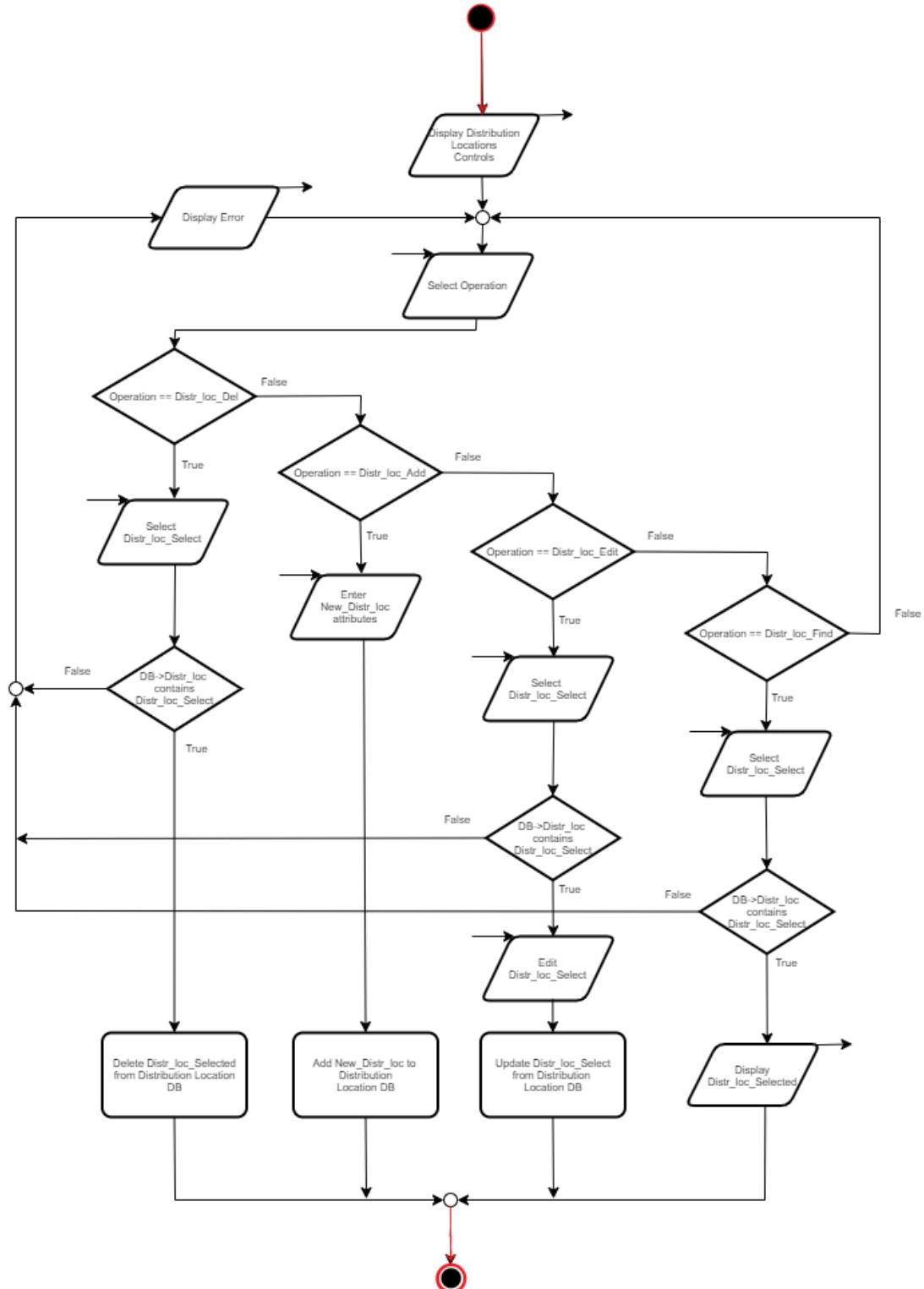


Figure 5.4h Admin's Distribution Location Controls Activity Diagram

Pseudocode

DISPLAY Distr_Loc_Controls

GET Operation

CASE Operation

Distr_Loc_Delete:

 GET Distr_Loc_Select
 IF(DB->Distr_Loc == Distr_Loc_Select)
 DELETE Distr_Loc_Select
 ELSE
 DISPLAY Error

Distr_Loc_Add:

 GET New_Distr_Loc(Attributes)
 ADD New_Distr_Loc to DB->Distr_Loc

Distr_Loc_Edit:

 GET Distr_Loc_Select
 IF(DB->Distr_Loc == Distr_Loc_Select)
 GET Distr_Loc_Select(Attributes)
 UPDATE DB->Distr_Loc(Distr_Loc_Select)
 ELSE
 DISPLAY Error

Distr_Loc_Find:

 GET Distr_Loc_Select
 IF(DB->Distr_Loc == Distr_Loc_Select)
 DISPLAY Distr_Loc_Select from DB->Distr_Loc
 ELSE
 DISPLAY Error

Food Categories Controls

Component Diagram

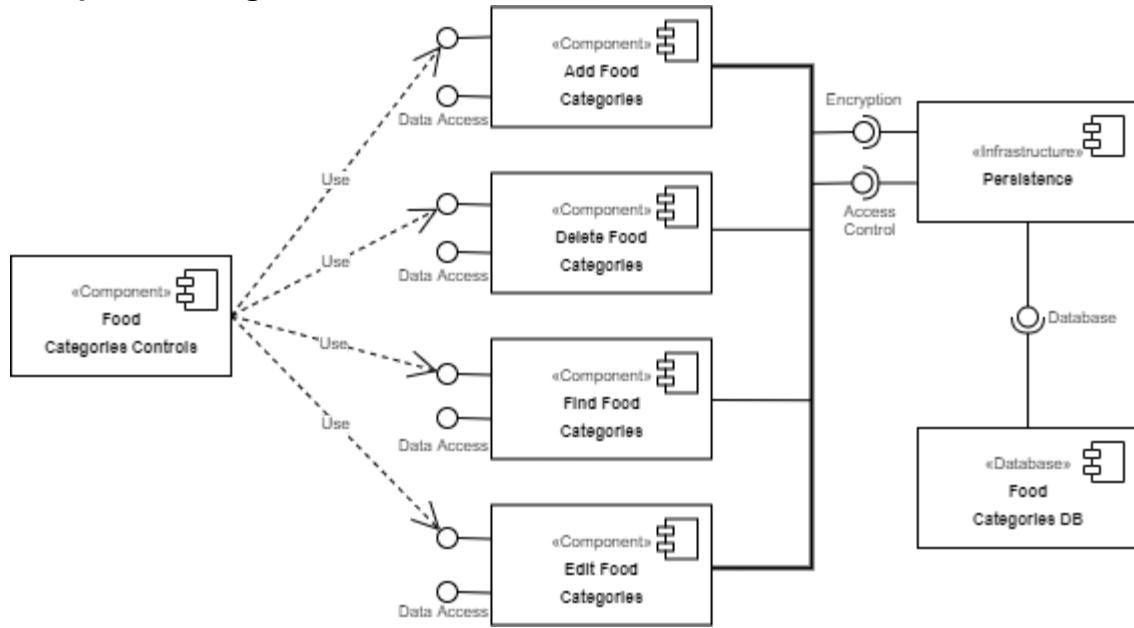


Figure 5.4i Admin's Food Categories Controls Component Diagram

Activity Diagram

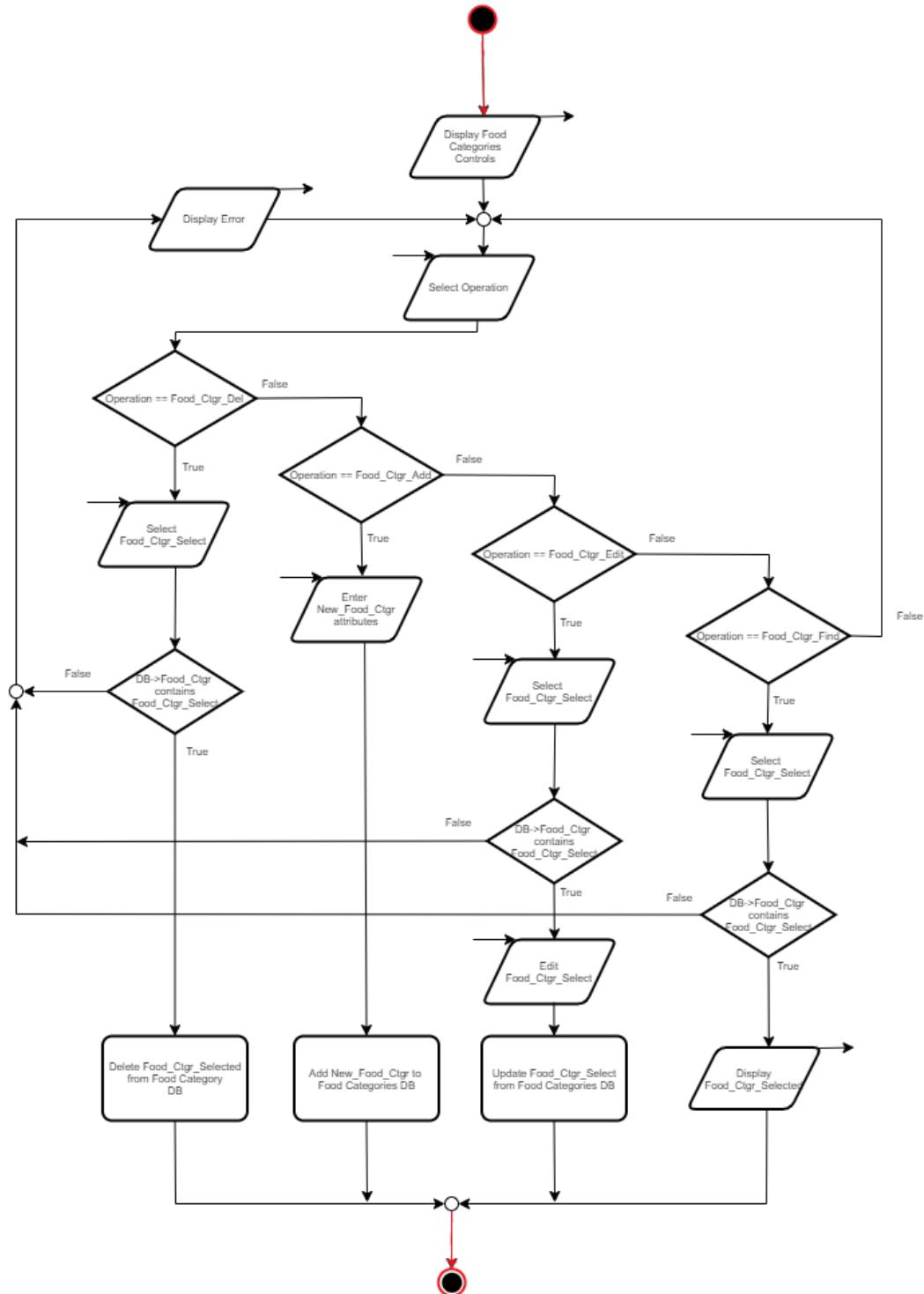


Figure 5.4j Admin's Food Categories Controls Activity Diagram

Pseudocode

DISPLAY Food_Ctgr_Controls

GET Operation

CASE Operation

Food_Ctgr_Delete:

 GET Food_Ctgr_Select

 IF(DB->Food_Ctgr == Food_Ctgr_Select)

 DELETE Food_Ctgr_Select

 ELSE

 DISPLAY Error

Food_Ctgr_Add:

 GET New_Food_Ctgr(Attributes)

 ADD New_Food_Ctgr to DB->Food_Ctgr

Food_Ctgr_Edit:

 GET Food_Ctgr_Select

 IF(DB->Food_Ctgr == Food_Ctgr_Select)

 GET Food_Ctgr_Select(Attributes)

 UPDATE DB->Food_Ctgr(Food_Ctgr_Select)

 ELSE

 DISPLAY Error

Food_Ctgr_Find:

 GET Food_Ctgr_Select

 IF(DB->Food_Ctgr == Food_Ctgr_Select)

 DISPLAY Food_Ctgr_Select from DB->Food_Ctgr

 ELSE

 DISPLAY Error

9 Deployment Design

1.6 Deployment Diagram

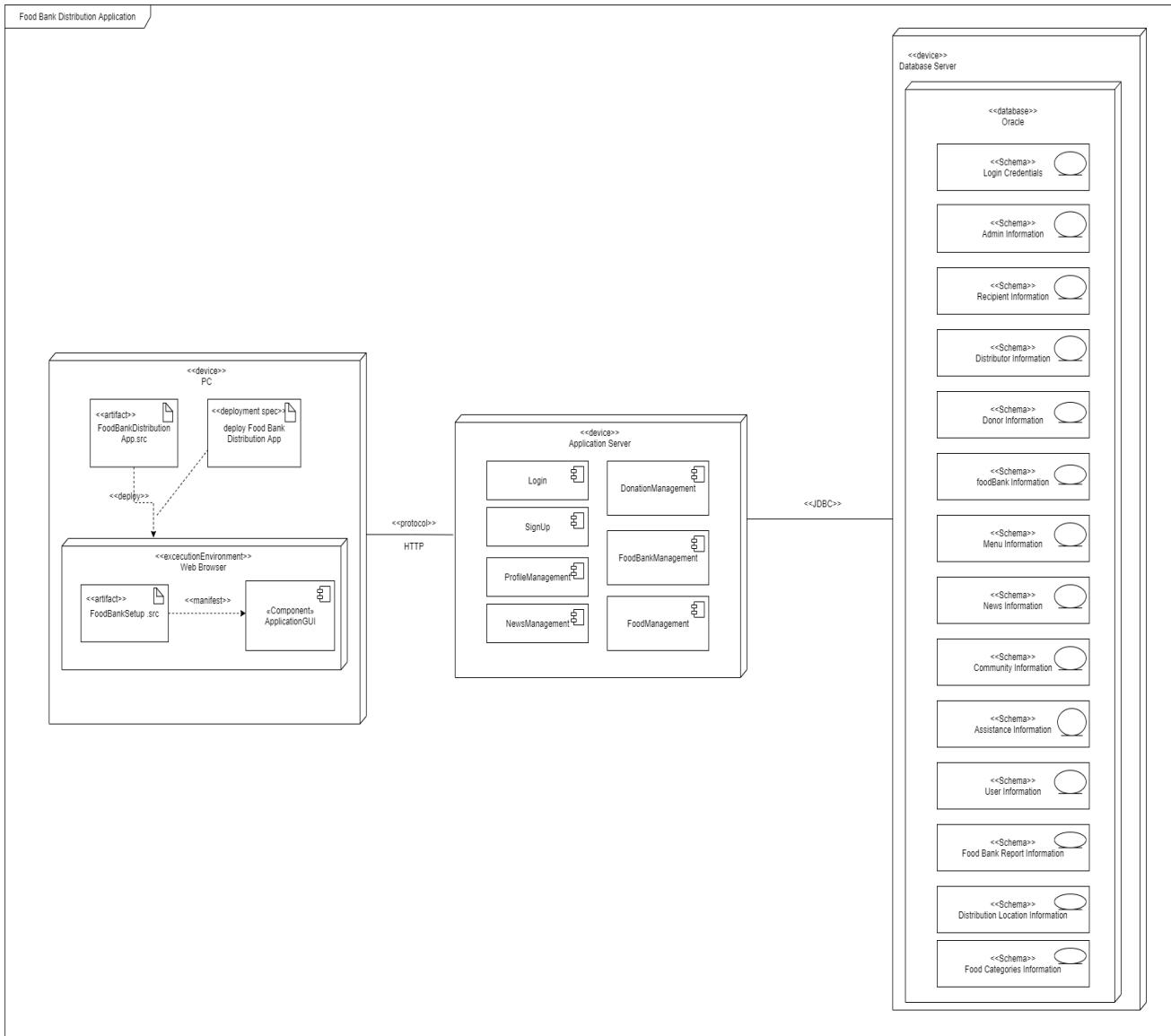


Figure 6.1 Food Bank Distribution Application's Deployment Diagram

For clearer view of Food Bank Distribution Application's Deployment Diagram, Copy and paste this link below into Google:

https://drive.google.com/file/d/174TogGBYlTuIV_O2PcP50UM1cC9kNmcW/view?usp=sharing

10 Testing Result

Test Case 1 (Donor)

Username	JD101
First Name	John
Last Name	Doe
Birthdate	11/08/01
Nationality	Malaysian
Password	12345
E-Mail	JohnDoedol@gmail.com
Mobile Number	+60123458391
Address	No.3, Jalan Bukit Baiduri, 4800 Rawang, Selangor

Test Case 2 (Admin)

Username	AG908
First Name	Aaron
Last Name	Gomez
Birthdate	6/12/1995
Nationality	Malaysian
Password	abc123
E-Mail	AaronGomez@gmail.com
Mobile Number	+60143729462
Address	No 42, Jalan Tempang Lama, 47000, Sungai Buloh, Selangor

Test Case 3 (Distributor)

Username	LK462
First Name	Long
Last Name	Kang
Birthdate	14/4/2001
Nationality	Malaysian
Password	12345
E-Mail	LongKang@gmail.com
Mobile Number	+60195557417
Address	No 67, Jalan Bunga Mewah, 56100 Ampang, Selangor

Test Case 4 (Recipient)

Username	MA628
First Name	Mohd
Last Name	Afiq
Birthdate	12/5/2001
Nationality	Malaysian
Password	abc000
E-Mail	MohdAfiq@gmail.com
Mobile Number	+60164204510
Address	No 532, Jalan Keng Chi, 40680 Shah Alam, Selangor

11 Prototype Screens

Login

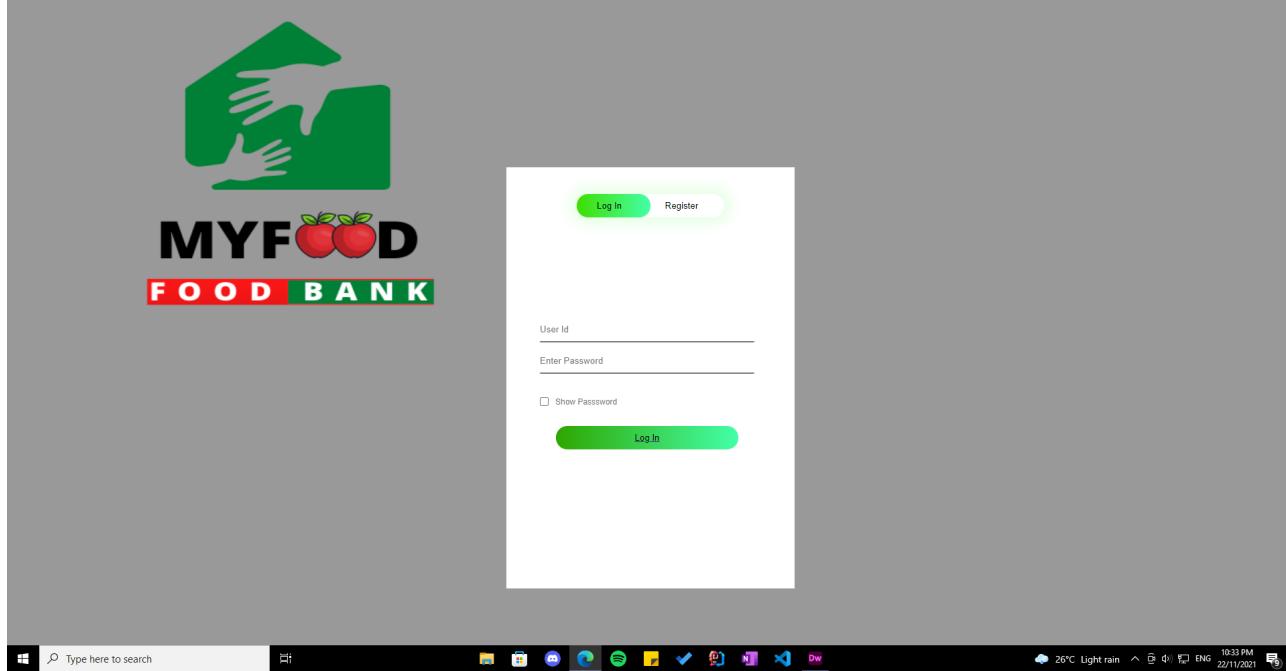


Figure 7.1 Login Screen

Register

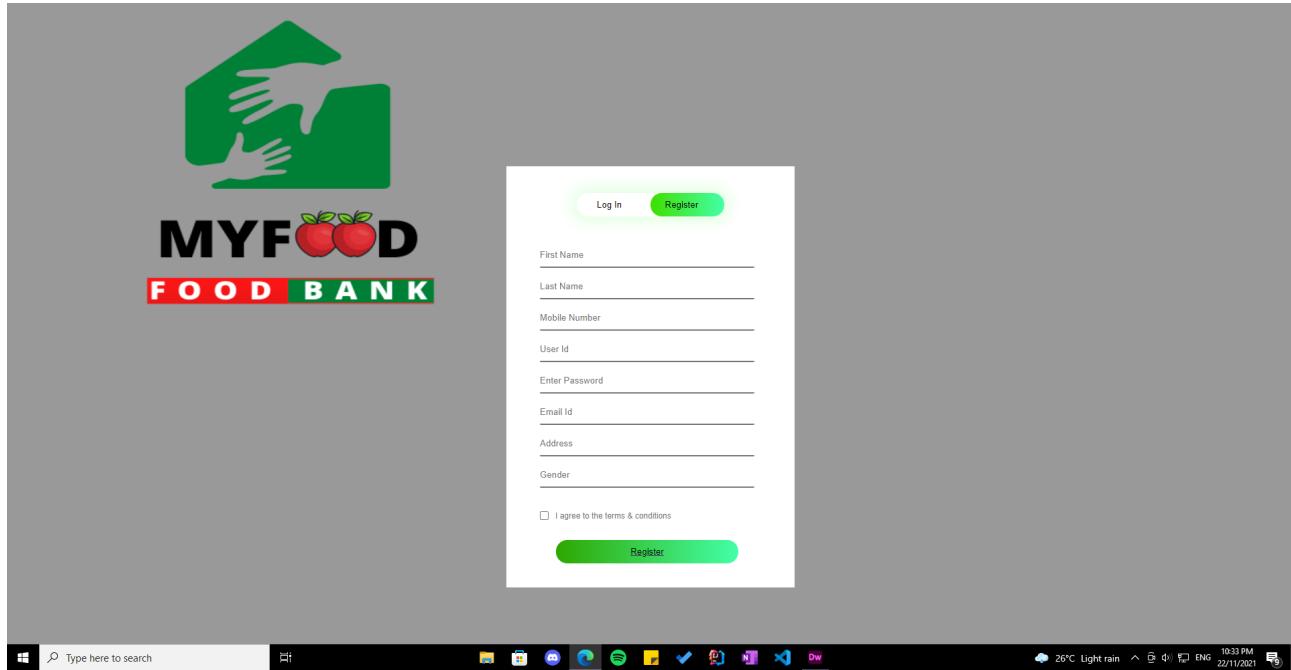


Figure 7.2 Register Screen

View Profile and Update Profile

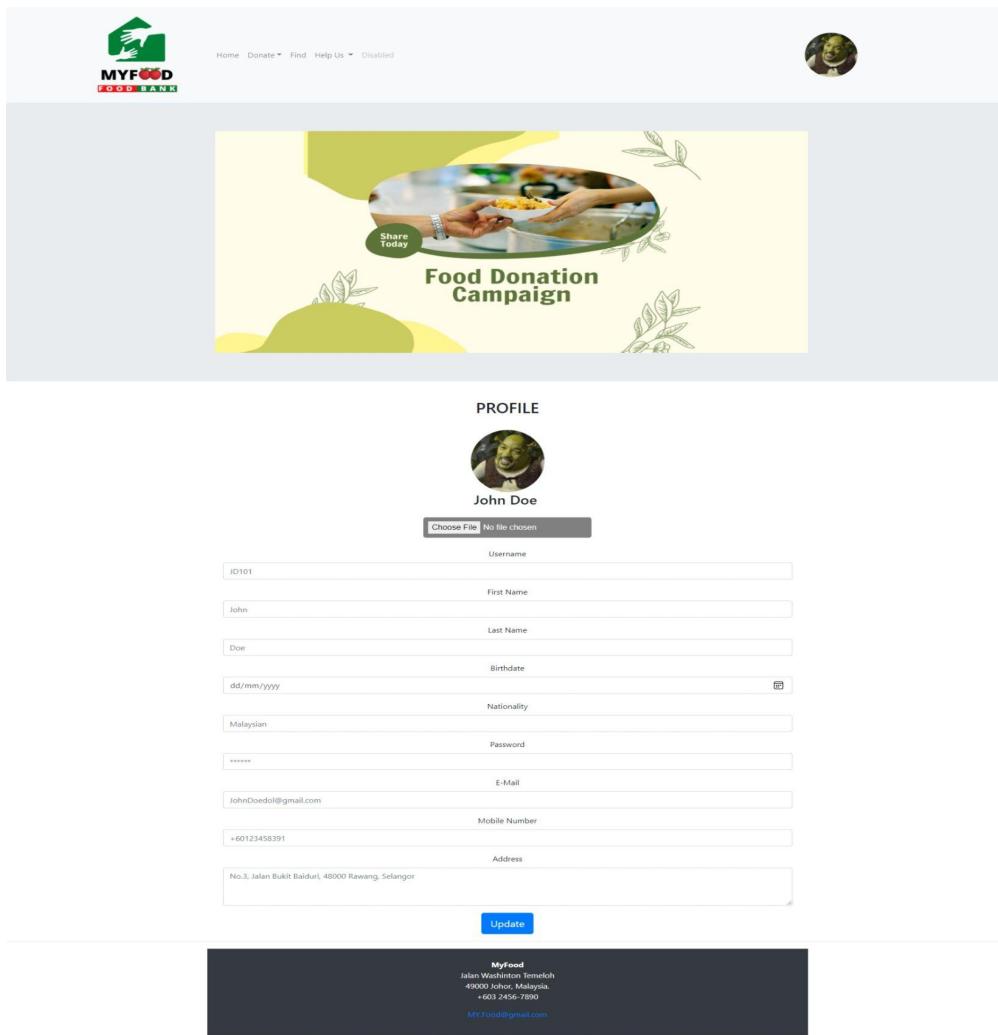


Figure 7.3 Profile Screen

Donor Screens

Donate Money

Home Donate ▾ Find Help Us ▾ Disabled

You can help beat hunger!

MyFood
for the
impoverished

FOOD BANK

Master Card Visa FPX

Payment

Donate RM10 Donate RM20 Donate RM50 Donate RM100

Once you click on the button you will redirect to payment gateway.

*Note : Only donation **RM100.00 & ABOVE** will get actual receipt from us.

TAX EXEMPTION APPLICATION

*For tax exemption, once you complete the payment from BillPlz gateway, you will be redirect to **Tax Exemption form** sites. Don't forget to save your donation receipt/proof for our reference.

Manual Donation

Donors may kindly approach any nearest Maybank branch for making their donations or contributions through Cash Transfer or by Online Banking to:

MyFood
5660 1063 0584
Maybank

TAX EXEMPTION APPLICATION

*If you make a donation manually, please fill out the form to claim the tax exemption. Make sure you keep proof of donations for our reference. Please click the button below to fill out the form.

*Note : Only donation RM100.00 & ABOVE will get actual receipt from us.

Donation Form

Contact

	Kamalan P: +6012-456-7890 rajini.kamal@gmail.com
	Madame Curie P: +6011-456-7890 isotope.Ra@gmail.com

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY_Food@gmail.com

Copyright © MyFood. All rights reserved.

Figure 7.4 Donate Money Screen

Donate Food

Figure 7.5 Donate Food Screen

History of Donation

The screenshot shows the 'History of Donations' section of the MyFood app. At the top, there is a navigation bar with the 'MYFOOD FOOD BANK' logo, a user profile picture, and links for 'Home', 'Donate', 'Find', 'Help Us', and 'Disabled'. Below the navigation bar is a promotional banner for 'MyFood for the impoverished' featuring a smartphone displaying a food bank box.

FOOD NAME	QUANTITY	DATE
Canned Vegetable	2	19/11/21
Rice	1	21/11/21
Oil	1	21/11/21

Below the table, there is a message: 'Your Food Donation will help families across Malaysia.' followed by 'The following button below will redirect you to a Google Form for further donation details.' A green 'Food Drive' button is present. At the bottom, there is contact information for MyFood: 'MyFood', 'Jalan Washington Temeloh', '49000 Johor, Malaysia', '+603 2456-7890', and an email address 'MYFood@gmail.com'. A copyright notice 'Copyright © MyFood. All rights reserved.' is also at the bottom.

Figure 7.6 History of Donation Screen

Food Bank Location

Figure 7.7 Find Location Screen

Admin Screens

Admin Menu

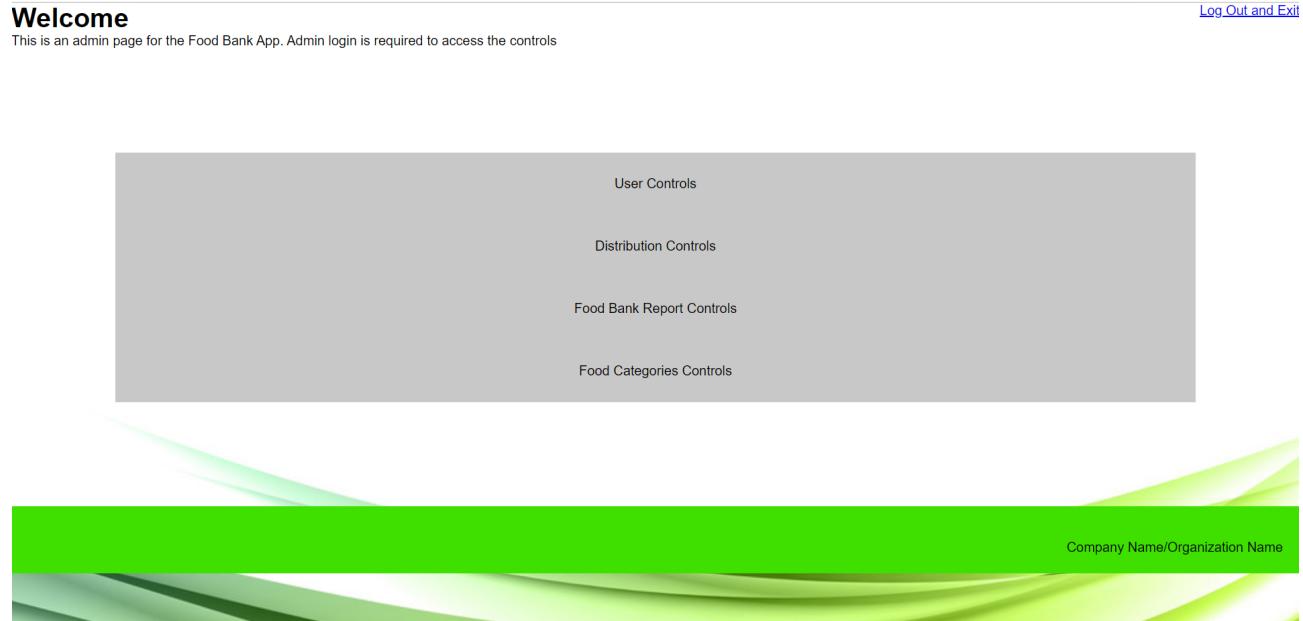


Figure 8.1 Admin Menu

User Controls (Add)

Add Users

First Name: John

Last Name: Kendall

Phone Number: 555839472

Password: scott0765

E-Mail: jkendall@gmail.com

Address: 23 7th Street, New York, USA

Gender: Male Female

Inserted User

User ID: 4542
First Name: John
Last Name: Kendall
Phone Number: 555839472
Password: scott0765
E-Mail: jkendall@gmail.com
Address: 23 7th Street, New York, USA
Gender: Male

Figure 8.2 User Controls (Add)

User Controls (Find)

Find Users

Search by:
User ID

First Name

Last Name

Phone Number

E-Mail

Address

Gender
 Male
 Female

Search Condition
 OR
 AND

Submit

User ID	First Name	Last Name	Phone Number	E-Mail	Address	Password	Gender
2537	Tiff	Mikhail	384691634	moskvich0723@kaka.ru	23 Kraag Street, Belarusia, USSR	raahn9283	Male
8427	Tom	Man	7237453	apple2@gmail.com	6 Baker Street, London, UK	powerdrill1938	Male
9624	Terry	Dave	94752542	ciaseenoman@gmail.com	Winter Park, Washington, USA	templedos	Male

Company Name/Organization Name

Figure 8.3 User Control (Find)

User Controls (Edit)

Edit Users

Search by:
User ID
 4737

Change (Leave empty if no change is needed):
First Name

Last Name

Phone Number

Password

E-Mail

Address

Gender
 Male
 Female

Submit

User ID	First Name	Last Name	Phone Number	E-Mail	Address	Password	Gender
4737	Muhd	Ali	012483464	ali18362@gmail.com	12 Jalan Abu, Selangor, Malaysia	aaa388ds	Male

Company Name/Organization Name

Figure 8.4 User Control (Edit)

User Controls (Delete)

Delete Users

Delete by:
User ID

1983

Submit

Deleted User ID: 1983

Company Name/Organization Name

Figure 8.5 User Control (Delete)

Distribution Controls (Add)

Add Distribution Location

Distribution Location Name

Putrajaya

Operating Hours
Start 09:00 AM ⏳ - End 09:00 PM ⏳

Address

12 Presint 15, Putrajaya, Malaysia

Submit

Inserted Distribution Location
Location ID: L3798
Distribution Location Name: Putrajaya
Operating Hours: 9:00 AM - 9:00 PM (12 Hours)
Address: 12 Presint 15, Putrajaya, Malaysia

Company Name/Organization Name

Figure 8.6 Distribution Control (Add)

Distribution Controls (Find)

Find Distribution Location

Search by:
Distribution Location ID

Distribution Location Name
 K%

Operating Hours
Start - End

Address

Search Condition
 OR
 AND

Submit

Distribution Location ID	Distribution Location Name	Start Hours	End Hours	Operating Hours (Hours)	Address
L8346	Klang	8:00 AM	8:00 PM	12	Klang, Malaysia
L2875	Kota Bharu	8:00 AM	8:00 PM	12	Kota Bharu, Malaysia
L7621	Kuala Lumpur	9:00 AM	9:00 PM	12	Kuala Lumpur, Malaysia

Company Name/Organization Name

Figure 8.7 Distribution Control (Find)

Distribution Controls (Edit)

Edit Distribution Location

Search by:
Distribution Location ID
 L3275

Change (Leave empty if no change is needed):
Distribution Location Name

Operating Hours
Start - End 09:00 PM

Address

Submit

Change info for Distribution Location L3275

Distribution Location ID	Distribution Location Name	Start Hours	End Hours	Operating Hours (Hours)	Address
L3275	Kuching	8:00 AM	9:00 PM	13	Kuching, Malaysia

Company Name/Organization Name

Figure 8.8 Distribution Control (Edit)

Distribution Controls (Delete)


Delete Distribution Location

Distribution Location ID

Deleted Distribution Location ID: L2467

[Back](#)

Company Name/Organization Name

Figure 8.9 Distribution Control (Delete)

Food Bank Report Controls (Add)


Add Food Bank Report

Food Category

Distribution Location

Quantity

Inserted Report
Report ID: R6247
Food Category: Canned Food
Distribution Location: Putrajaya
Quantity: 20

Company Name/Organization Name

Figure 8.10 Food Bank Report Control (Add)

Food Bank Report Controls (Find)

Find Food Bank Report

Search by:
Report ID

Food Category

Distribution Location

Quantity

Search Condition
 OR
 AND

Report ID	Food Category	Distribution Location	Quantity
R5723	Canned Food	Klang Valley	34
R4626	Canned Food	Klang Valley	41

Figure 8.11 Food Bank Report Control (Find)

Food Bank Report Controls (Edit)

Edit Food Bank Report

Search by:
Report ID

Change (Leave empty if no change is needed):
 Food Category
 Distribution Location
 Quantity

Report ID	Food Category	Distribution Location	Quantity
R2783	Spices	Putrajaya	40

Company Name/Organization Name

Figure 8.12 Food Bank Report Control (Edit)

Food Bank Controls (Delete)

Delete Food Bank Report

Report ID
R6427

Submit

Deleted Report: R6427

Company Name/Organization Name

Figure 8.13 Food Bank Control (Delete)

Food Categories Controls (Add)

Add Food Categories

Food Category Name
Dry Food

Submit

Inserted Food Category
Category ID: F8732
Food Category Name: Dry Food

Company Name/Organization Name

Figure 8.14 Food Categories Control (Add)

Food Categories Control (Find)

Find Food Categories

Search by:
Food Category ID

Food Category Name

Submit

Category ID	Food Category Name
F8732	Dry Food

Company Name/Organization Name

Figure 8.15 Food Categories Control (Find)

Food Categories Controls (Edit)

Edit Food Categories

Search by:
Food Category ID

Change:
Food Category Name

Submit

Category ID	Food Category Name
F8732	Instant Food

Company Name/Organization Name

Figure 8.16 Food Categories Control (Edit)

Food Categories Controls (Delete)

Delete Food Categories

Food Category ID

Deleted Category ID: F8732

[Back](#)

Add
Find
Edit
Delete

Company Name/Organization Name



Figure 8.17 Food Categories Control (Delete)

Recipient Screens**Home Page**

You can help beat hunger!

MyFood
for the
impoverished

FOOD BANK

Since the launch of MyFood on 3 July 2021, we've received an overwhelming response. We expected to send out 10,000 food boxes, but as of 16-Jul-2021, 3:00 pm, the number of requests we've received for food aids exceeded 51,583, which is 500% more than our initial expectation.

We'd like to express our sincere gratitude to all parties, and project MyFood will end when we have completed 30,000 deliveries. We estimate to complete 30,000 approved applications by 16 Jul 2021.

Once again, Exabytes & MyFood would like to take this opportunity to say thank you to our staff and volunteers for delivering foodboxes to 30,000 smiling families. We have exceeded our original target by 300%.

Our team will continue to process the applications that are sent in before 16 Jul 2021, 3:00 pm.

Gentle Reminders:

1. To ensure more families in need can receive food aids, one family is only entitled to apply once.
2. Upon approval, recipients will receive their food box in approximately 7-14 days.

For those who need food aids, please visit:

- [KitaJaga](#)
- [eBantuanJKM](#)

MyFood Application Status
Last Updated: 16 Jul 2021, 10:18 AM

Application For Food:	51,583 Foodbox	Apply
Completion Received:	26,755 Foodbox	Donate
FoodBox Delivered:	31,582 Foodbox	Donate

Many are still in direct need of help. With your generous contribution, MyFood will be able to continue to support more families in need and help them sail through this challenging time. Officially, MyFood has reached its goal. Thank you for your support. MYFOOD FOR THE IMPOVERISHED

With your continued support, MyFood can still continue to help many more families in need. Dengan sumbangan anda, MyFood akan dapat berusaha untuk membantu masih banyak keluarga yang memerlukan dan sama-sama membantu mencapai tujuan mereka.

Meet our generous supporters

ACN QBE MARS

USEFUL LINKS

- [Food Menu](#)
- [Reserved Food](#)
- [Community](#)
- [Contact Us](#)
- [Latest News](#)

ADDRESS

MY.Food@gmail.com
+603 2456-7890
Jalan Washington Temeloh
49000 Johor, Malaysia.

KEEP IN TOUCH

Join in the conversation at

[Facebook](#) [Twitter](#) [Instagram](#)

MyFood
Jalan Washington Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

Feedbank App – Recipient Blog at WordPress.com.

Figure 9.1 Home Page

Food Menu Pages

Food Menu Screen to show all the foods available

The screenshot shows the 'Food Menu' section of the MyFood Food Bank website. At the top, there is a navigation bar with links for 'Edit page', 'Change theme', and 'Launch site'. Below the navigation is the MyFood logo, featuring two hands reaching towards each other, with the text 'MYFOOD FOOD BANK' underneath. A small circular profile picture of a person is visible on the right. The main menu includes 'Home Page', 'Food Menu' (which is highlighted in red), 'Reserved Food', and 'Community Feed'. The 'Food Menu' section displays two food items in cards:

- Nasi Ayam**
Foodbank Location: Yayasan FoodBank, Jalan Lubuk
Food Name: Nasi Ayam
Available Amount: 20
Date: 6/10/2021
Time Start: 14:30
Time End: 17:30
- Nasi sayur campur**
Foodbank Location: Food Aid, Kuala Lumpur
Food Name: Nasi sayur campur
Available Amount: 15
Date: 7/10/2021
Time Start: 13:30
Time End: 16:30

Each card has a 'Reserve Food' button. At the bottom of the page, there is a footer with contact information for MyFood, including the address 'Jalan Washinton Temeloh 49000 Johor, Malaysia.', phone number '+603 2456-7890', email 'MY.Food@gmail.com', and copyright notice 'Copyright © MyFood. All rights reserved.'.

Figure 9.2a Food Menu Screen to show all the foods available

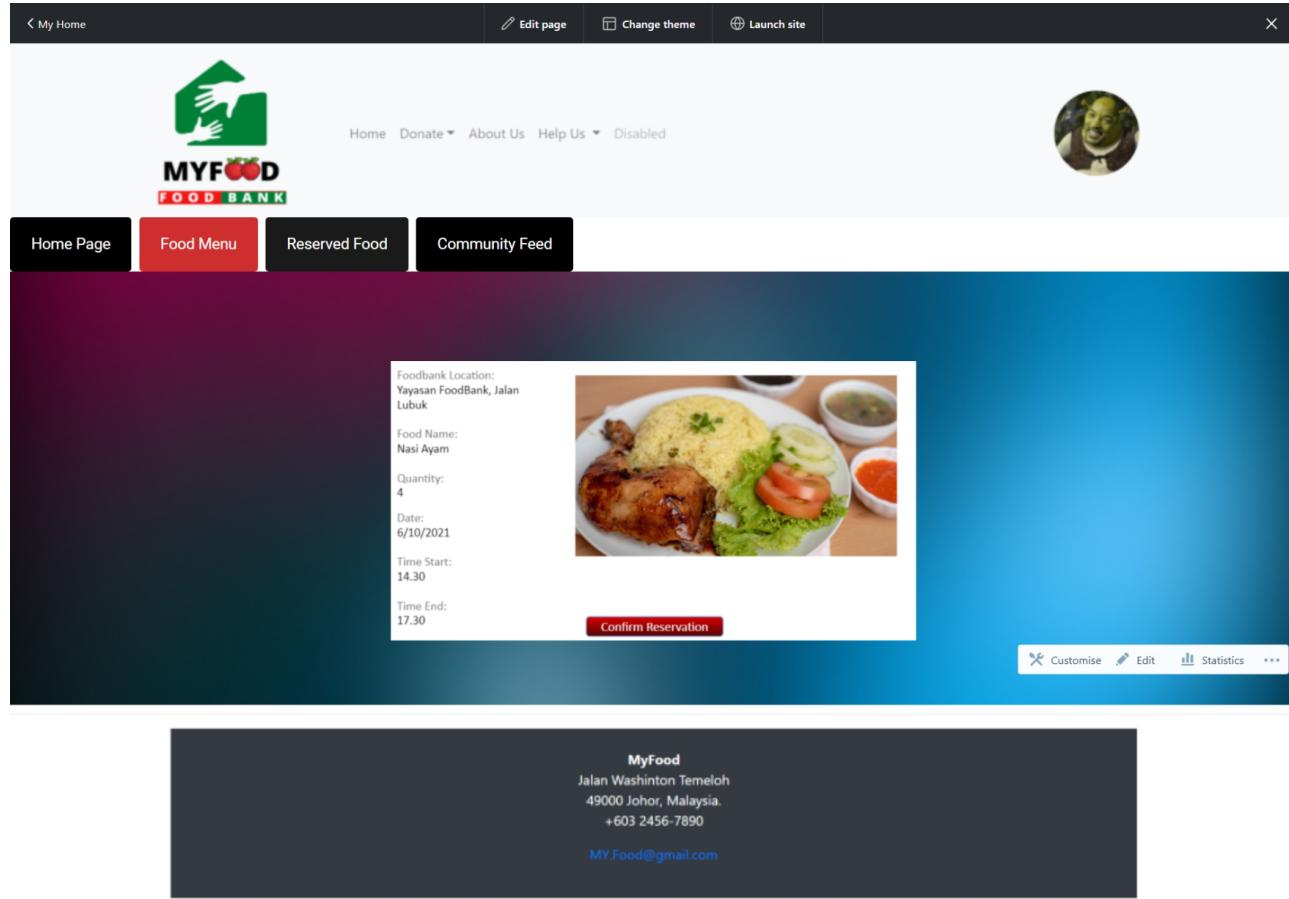
Food Menu Screen to ask for the confirmation of the food to be reserved

Figure 9.2b Food Menu Screen to ask for the confirmation of the food to be reserved

Reserved Food Pages

Reserved Food Page After cancelling the reservation of food

The screenshot shows a WordPress website for "MYFOOD FOOD BANK". The header includes navigation links for Home, Donate, About Us, Help Us, and Disabled. A user profile picture of a smiling man is visible. The main content area displays a message: "There are no items in this list" with a "Continue Reserving Food" button. The footer contains contact information: MyFood, Jalan Washinton Temeloh, 49000 Johor, Malaysia, +603 2456-7890, and email MY.Food@gmail.com. It also includes copyright notice, Foodbank App - Recipient, and links for Customise, Edit, Statistics, and more.

My Site Reader

My Home Edit page Change theme Launch site Write

Home Donate About Us Help Us Disabled

MYFOOD FOOD BANK

Home Page Food Menu Reserved Food Community Feed

There are no items in this list

Continue Reserving Food

Customise Edit Statistics ...

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

Foodbank App - Recipient. Create a free website or blog at WordPress.com.

Figure 9.2c Reserved Food Page After cancelling the reservation of food

Reserved Food Page After confirming the reservation of food

The screenshot shows a WordPress-based website for "MYFOOD FOOD BANK". The header includes a logo with two hands, a "My Site" link, a "Reader" view link, and a user profile icon. The main menu has items: Home Page, Food Menu, Reserved Food (which is highlighted in red), and Community Feed. A circular profile picture of a person is displayed on the right.

Foodbank Location: Yayasan FoodBank, Jalan Lubuk

Food Name: Nasi Ayam

Quantity: 4

Date: 6/10/2021

Delivery Time: 15.30

Cancel Reservation

On the right side of the reservation details, there is a photograph of a plate of Nasi Ayam (rice with chicken) garnished with vegetables like tomatoes and cucumbers. Below the reservation details, there is a footer section with contact information:

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

[Foodbank App - Recipient](#). Create a free website or blog at [WordPress.com](#).

Figure 9.2d Reserved Food Page After confirming the reservation of food

Community Page

Community Feed

What's on your mind, Kishen?

Syahmi 1 day ago - Tips & Tricks

Throwing away food is like stealing from the table of those who are poor and hungry. Cutting food waste is a delicious way of saving money, helping to feed the world and protect the planet. A food waste reduction hierarchy-feeding people-

[Read More](#)

2.2K likes 128 comments 180 shares

Like Comment Share

Amirah 1 day ago - Q&A

The garden is doing so well, we have so many greens and radishes that everyone is enjoying. Also, we are using one square as a compost bin, The Green Team is collecting food waste at lunch. Things are looking great, a huge thank you again.

6 likes 3 shares

Like Comment Share

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

[Foodbank App – Recipient](#). Create a free website or blog at [WordPress.com](#).

Figure 9.2e Community Page

News Main Page

The screenshot shows the homepage of the MyFood Food Bank website. At the top, there is a dark navigation bar with links for 'Edit page', 'Change theme', and 'Launch site'. Below the bar, the MyFood logo is displayed, featuring a green hand icon and the text 'MYFOOD FOOD BANK'. A circular profile picture of a smiling person is visible. The main content area has a dark background. The first news item features the title '5 Unique Ways to Use Leftover Egg Whites' in white text, followed by a 'Click to Read More' link. To the right of the text is a photograph showing hands cracking eggs into a white bowl. The second news item features a photograph of several bottles of Ribena juice. The title reads 'Ribena waste used by Leeds scientists to make hair dyes', with a 'Click to Read More' link below it. At the bottom of the page, there is a footer containing contact information for MyFood, including an address in Johor, Malaysia, a phone number, and an email address (MY.Food@gmail.com). The footer also includes a copyright notice and a link to the Foodbank App Recipient blog.

MyFood
Jalan Washinton Temeloh
49000 Johor, Malaysia.
+603 2456-7890
MY.Food@gmail.com

Copyright © MyFood. All rights reserved.

[Foodbank App – Recipient](#). Blog at WordPress.com.

Figure 9.2f News Main Page

Blog 1: 5 Unique Ways to use leftover egg white



The screenshot shows a blog post titled "5 Unique Ways to Use Leftover Egg Whites". The post features a photo of hands cracking eggs into a bowl. Below the title is a bio for the author, Little, and a photo of her. The post then lists five ways to use leftover egg whites:

- Pavlova**: A dessert made with meringue and fruit.
- Meringue-topped cupcakes**: Cupcakes topped with meringue.
- Pink lady cocktails**: Cocktails made with egg whites.
- DIY face masks**: Face masks made from egg whites.
- Candied nuts**: Candied nuts made with egg whites.

Below the post, there are three comments from users:

- HollyMak: "Add to Soups, pancakes or mash potatoes or just chuck in with eggs for breakfast" (2 years ago)
- Tikka Mole: "BBC Good Food, why is this a pay per view / subscription service for the people who are paying the Licence fee? I am seeking my right of access to the BBC." (2 years ago)
- dudeing: "It's not?" (2 years ago)

Get new content delivered directly to your inbox.

Enter your email address: [Sign Up](#)



Figure 9.2g Blog 1: 5 Unique Ways to use leftover egg white

Blog 2: Ribena waste used by Leeds scientists to make hair dyes

[My Site](#) [Header](#) [Edit page](#) [Change theme](#) [Launch site](#) [Print](#) [X](#)



Home · Donate · About Us · Help Us · Disabled · 

[Home Page](#) [Food Menu](#) [Reserved Food](#) [Community Feed](#) [News](#) [Community](#)



Ribena waste used by Leeds scientists to make hair dyes



Hi, I'm Lillie. Previously a magazine editor, I became a full-time mother and freelance writer in 2017. I spend most of my time with my kids and husband over at The Brown Bear Family.

A natural hair dye based on the blackcurrant waste from the production of Ribena has been created by scientists.

The dyes use waste created after the berries have been pressed for juice.

A new technique by University of Leeds scientists extracts natural colouring from the leftover skins to make dyes.

Dr Richard Blackburn said the berries "represent a sustainable supply of raw material because of how much blackcurrant cordial we drink".

About 90% of the British blackcurrant crop is used to make the branded drink, according to the manufacturer.

Dr Blackburn, a colour chemist, said the university wanted "to develop biodegradable alternatives that minimise potential risks to health" due to concerns about conventional dyes.



Blackcurrant skins can be used for pink, red, purple, violet and blue colours.

The blackcurrant skins have high concentrations of anthocyanins, pigments that provide colour to many berries, flowers, fruits and vegetables.

Dr Blackburn said: "They are non-toxic, water soluble and responsible for pink, red, purple, violet and blue colours and are widely used as natural food colourants all over the world."

"We knew they bound strongly with proteins – hair is a protein – so we thought if we could find an appropriate source of these natural colours, we might be able to dye hair."

The patented technology enables the pigment to be extracted and provide intense colours on hair.

The research in the Journal of Agricultural and Food Chemistry said colours last for at least 12 washes, similar to other semi-permanent dyes.

The blackcurrant-based dyes should go on sale this summer through a university spin-off company.

 **Nina 27** 6 years ago [Tip](#)
Lovely ideas for recipes, also homemade marshmallows are a lovely way to use up excess egg whites. Not as difficult as it might appear (recipe courtesy of waitrose and tried and tested, came out lovely every time).
250g golden caster sugar 1 tbsp liquid glucose 50g dark chocolate (70% cocoa) 5...
[More](#)

 **natjustin** 7 years ago [Tip](#)
LEMON CURD Egg yolks are great for making lemon curd, a fabulous addition to meringues! We like a lemony, not too sweet curd: 4 yolks, 100g caster sugar, 60g butter zest of 1 lemon very finely chopped, 125ml lemon juice
Whisk eggs & sugar until combined but not frothy. Pour into a NON-METAL saucepan...
[More](#)

Get new content delivered directly to your inbox.

Enter your email address

[Sign Up](#)

MyFood
Jalan Wawasan Tarmeloh
49000 Johor, Malaysia
+603 2456-7890
MY_Food@gmail.com

Copyright © MyFood. All rights reserved.

Foodbank App - Recipient. Create a free website or blog at WordPress.com.

Figure 9.2h Blog 2: Ribena waste used by Leeds scientists to make hair dyes

Contact Us Page

The screenshot shows a WordPress page editor interface for the 'Contact Us' page of the MyFood Food Bank website. At the top, there's a navigation bar with links for 'Edit page', 'Change theme', and 'Launch site'. Below the header, the MyFood logo is displayed, featuring two hands holding a green leaf. The main content area has a heading 'Get in touch' and a form for user input. The form fields include 'Name (required)', 'Email (required)', and a large 'Message' area. Below the message area are social media sharing icons for Facebook, Twitter, and Instagram. A 'Submit' button is located at the bottom of the form. In the bottom right corner of the page editor, there are buttons for 'Customise', 'Edit', 'Statistics', and more. The footer of the page contains the MyFood contact information: 'Jalan Washinton Temeloh 49000 Johor, Malaysia.', phone number '+603 2456-7890', email 'MY.Food@gmail.com', and a copyright notice 'Copyright © MyFood. All rights reserved.'

Figure 9.2i Contact Us Page

Distributor Screens

Rider's View and Update Profile Page

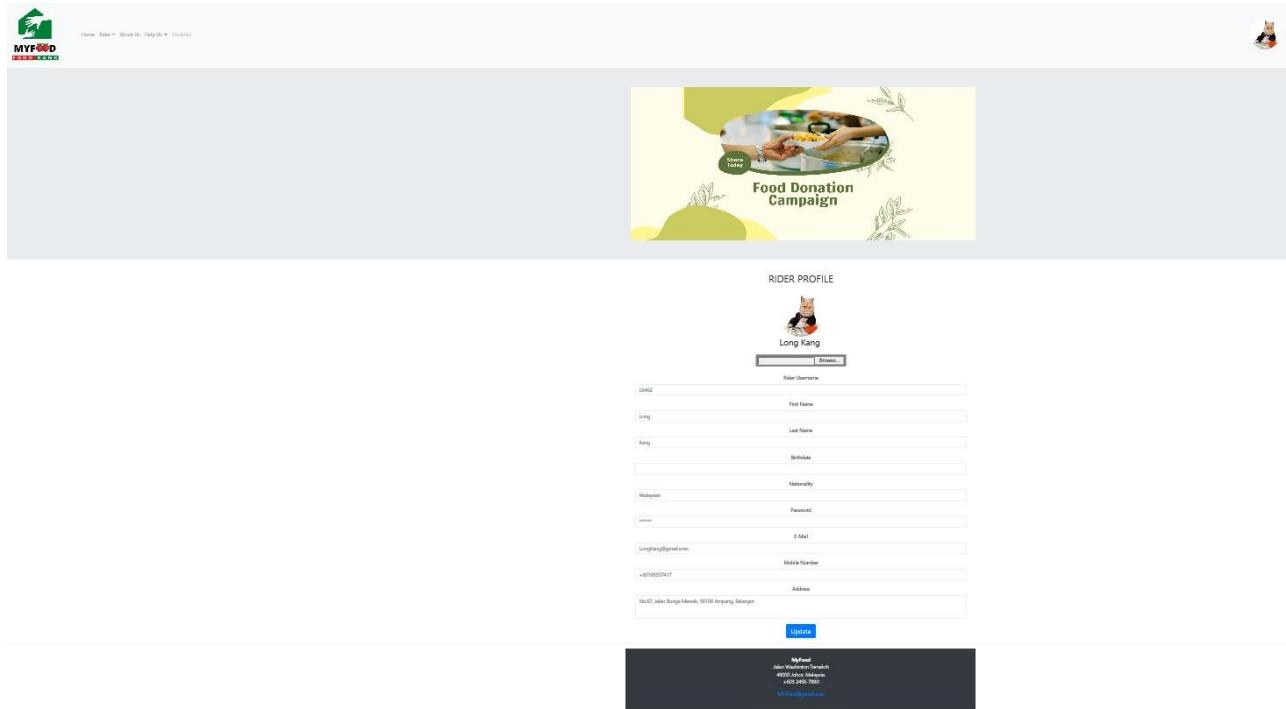


Figure 10.1 Rider's Profile Screen

Rider's Search for Nearby Foodbank Location Page

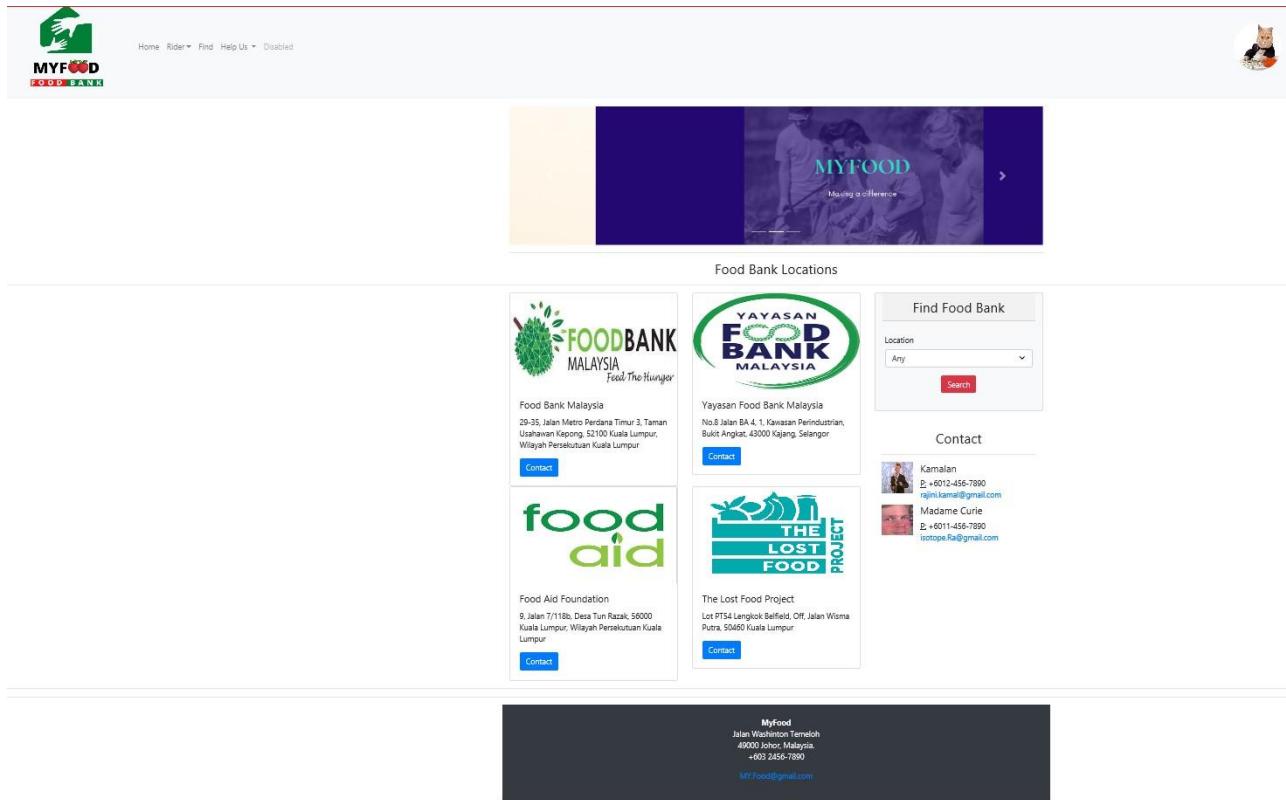


Figure 10.2 Rider's Search Foodbank Location Screen

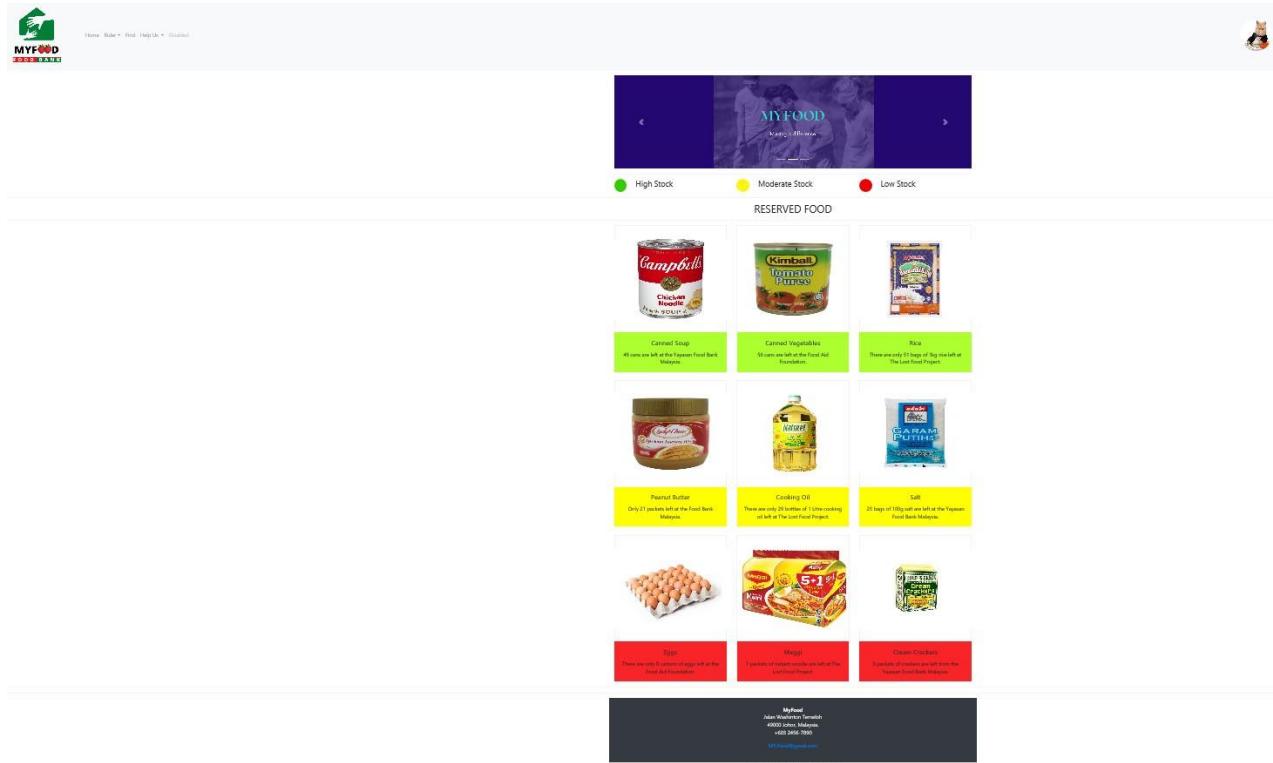
Rider's Status of Reserved Food Page

Figure 10.3 Rider's Check Status of Reserved Food Screen

Rider's View Delivery Status Page

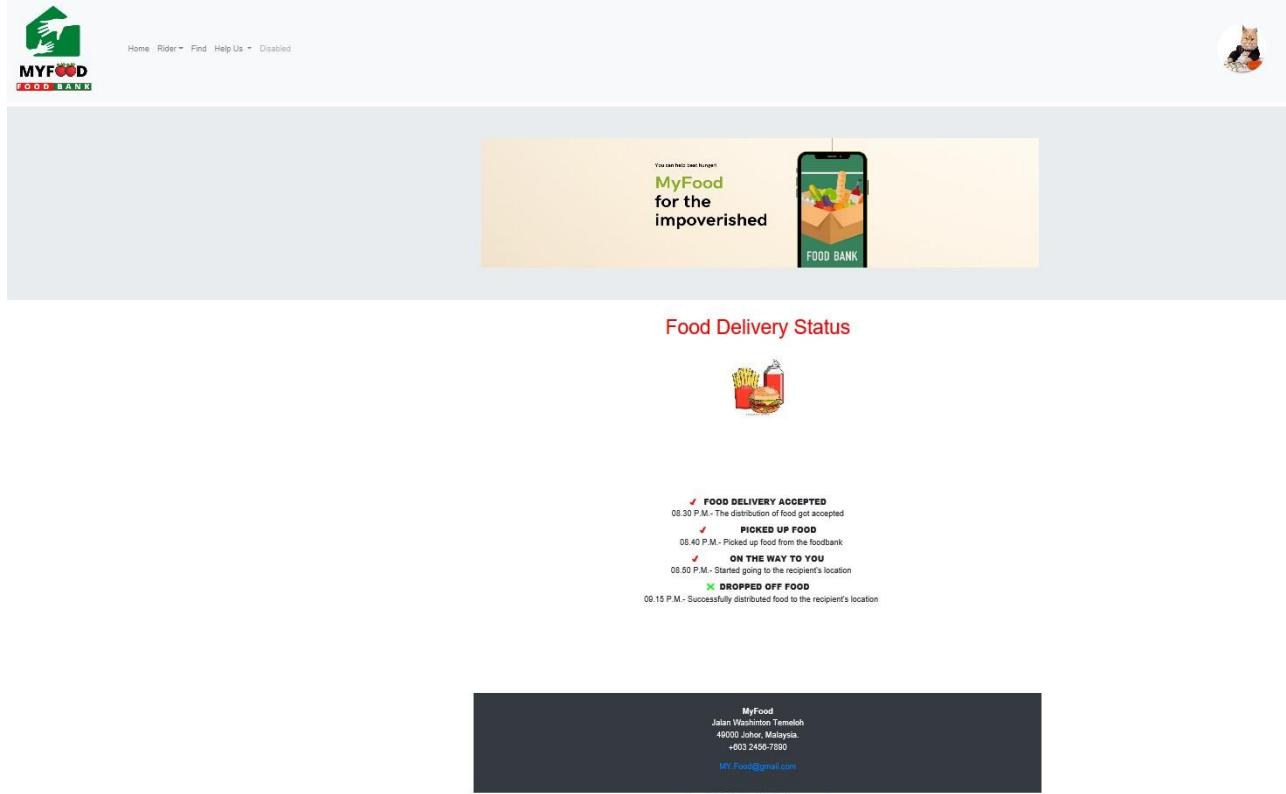


Figure 10.4 Rider's View Delivery Status Screen

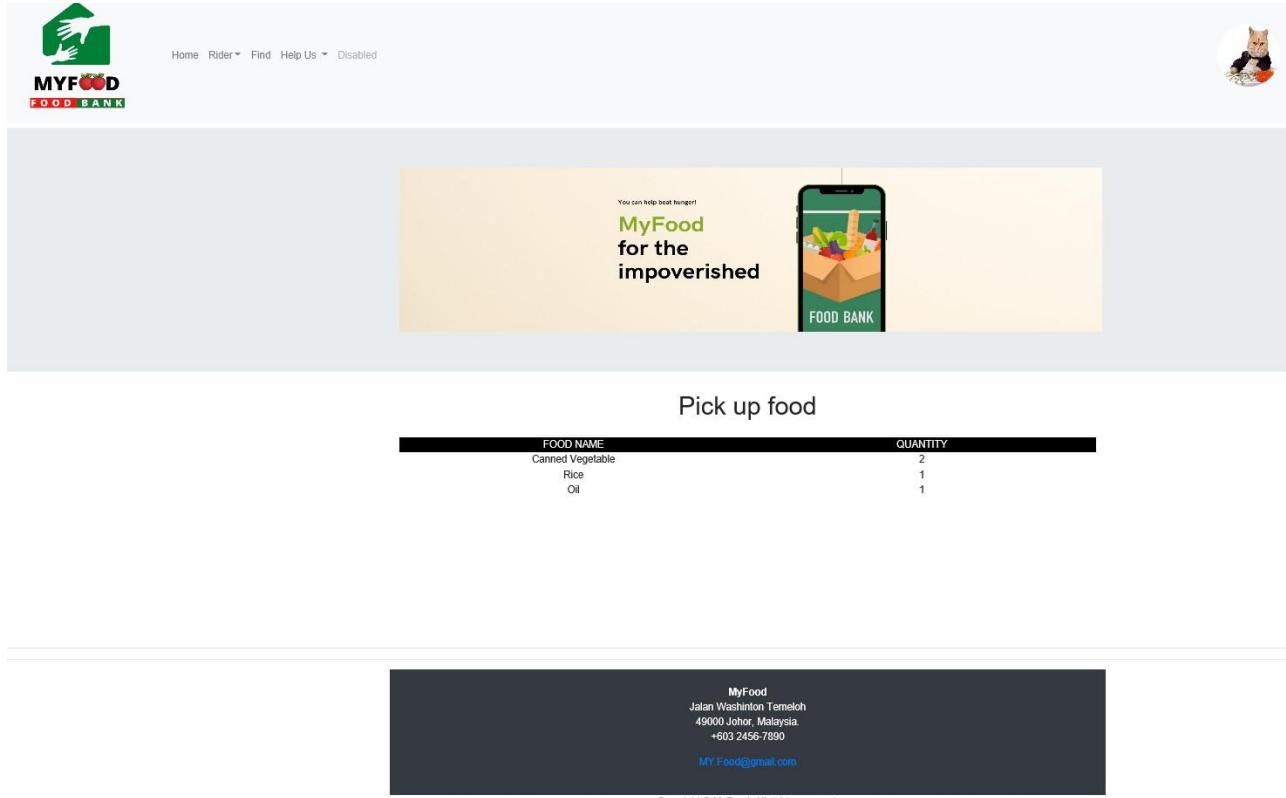
Rider's Pick up food Page

Figure 10.5 Rider's Pick Up food Screen

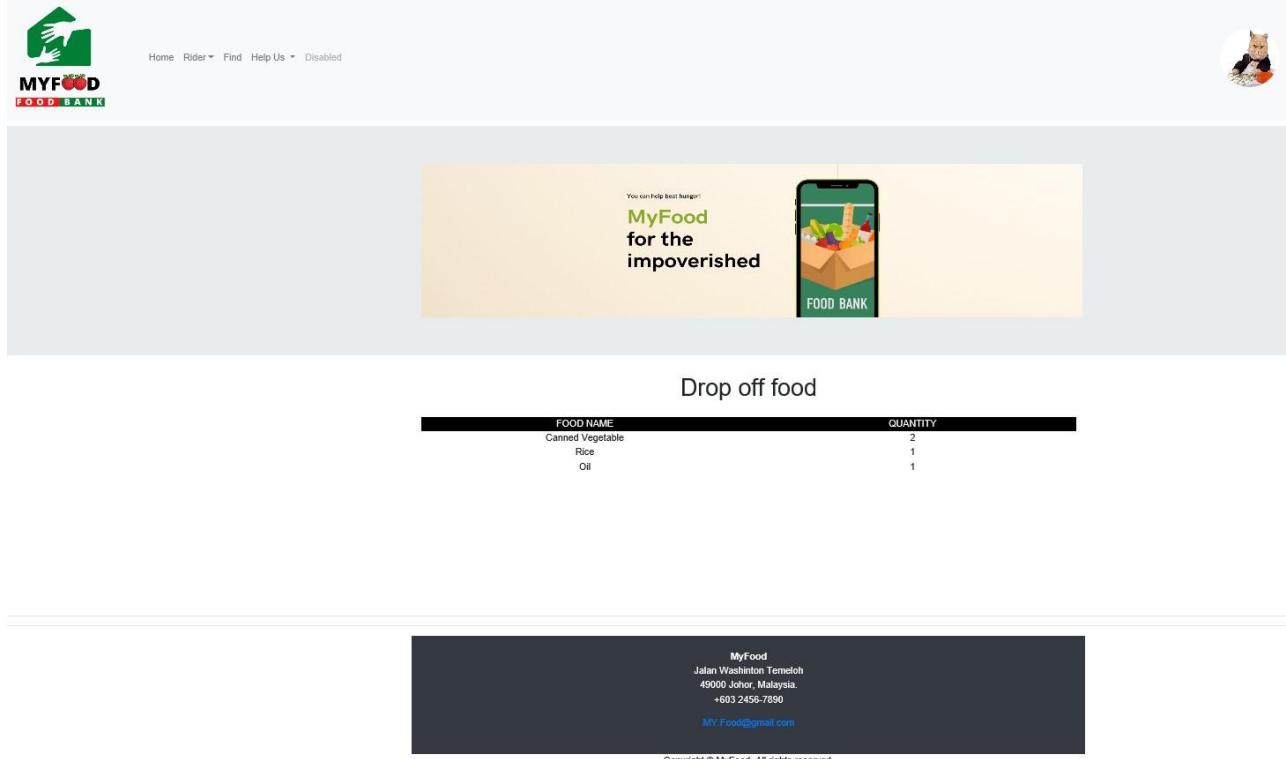
Rider's Drop off food Page

Figure 10.6 Rider's Drop off food Screen

12 Conclusions

15.1 Summary of Results

Through our effort for about ten weeks, we had succeed to complete and create a small system which is a Food Bank Distribution App. We learned a lot during this period. We have to find out what their operation method is all about and how it overall operated. Our system also streamlined the process of donating and receiving the donations for donors and recipients alike. Teamwork alone was the reason we completed this project. We discussed many things to make this system more standardized and complete. We also learned how we do the planning for the system such as how to distribute the time for each phase of the system.

15.2 Problems Encountered

Problem that we face throughout this project is that we knew very little about how food banks operated. So we had to look for a lot of information online on how an average food bank operates and draw a system from there. This understanding of the system led us to develop the Food Bank Distribution App.

15.3 Limitations and Future Enhancements

The donors of the Food Bank Distribution App still have to physically donate food because our system does not have an option for that. We can give the overall roles more functions such as online chats with representatives to answer queries. We can also improve the interface and make it become more user friendly and attractive as well.

13 User Guide

<This section is Optional. Write a user guide on how to use the system and place it here.>