

# SCS 3214 / IS 3113: Group Project II - 2021

## Interim Report

**Project Title:** GreenNest

### **Project Group Details**

1. Group number: G46
2. Group members:

<i>Name</i>	<i>Reg. Number</i>	<i>Index Number</i>	<i>Email address</i>	<i>Mobile Phone</i>
(i) L.L.C.L.Perera	2018/CS/120	18001203	<a href="mailto:pererachathurika96@gmail.com">pererachathurika96@gmail.com</a>	0766377668
(ii) G.W.P.Dulanjali	2018/CS/047	18000479	<a href="mailto:piyumidulanjali1998@gmail.com">piyumidulanjali1998@gmail.com</a>	0702805945
(iii) K.A.H.C.Kumarasinghe	2018/CS/087	18000878	<a href="mailto:hashankumarasinghe@gmail.com">hashankumarasinghe@gmail.com</a>	0769719060
(iv) B.V.S.T. Kumari	2018/CS/088	18000886	<a href="mailto:sulakshanee111@gmail.com">sulakshanee111@gmail.com</a>	0711229957
(v) L.H.P.Amarakoon	2018/IS/007	18020072	<a href="mailto:hiruniamarakoon06@mail.com">hiruniamarakoon06@mail.com</a>	0711195124

## **Details of Project Supervisor, Co-supervisor, Advisors and Clients**

### **Project Supervisor (Academic Staff of UCSC):**

Name of the supervisor: Mrs. Sanduni Thrimahavithana

Signature of the supervisor: *Sanduni S.T.*

Date: 2021/07/12

### **Project Co-Supervisor (Assigned by Course Coordinator):**

Name of the co-supervisor: Miss. Yashodha Vimukthi

Signature of the co-supervisor: *Yashodha*

Date: 2021/07/12

**The client of the Project (If applicable, otherwise supervisor will be considered as the client)**

Name of the client: Mr. I.M.Jayasiri

Address of the client: Sewwandi Plant Nursery,  
Koongahagedara,  
Kuliyapitiya

Contact person at client: Mr. I.M.Jayasiri

Contact number of the contact person: 0767340845

## Table of Content

Details of Supervisor, Co-supervisor and Client.....	3
Table of Content .....	4
Project Details .....	5
1. Project Title .....	5
2. The Goal and Objective .....	5
3. Problem Definition and Motivation .....	5
4. The Scope of the Project .....	6
In-Scope .....	6
Out-Scope .....	8
5. Feasibility Study .....	8
5.1 Social Feasibility .....	8
5.2 Technical Feasibility .....	9
5.3 Operational Feasibility .....	9
5.4 Economic Feasibility .....	10
5.5 Schedule Feasibility .....	10
5.2 Legal and Ethical Feasibility .....	11
6. System Architecture .....	11
7. Requirement Specification .....	11
7.1 Non-Functional Requirements .....	11
7.2 Diagrams .....	13
Use Case Diagram .....	13
Class Diagram .....	14
Component Diagram .....	15
ER Diagram .....	16
Activity Diagrams .....	17
8. User Interfaces .....	27
9. Main deliverables of the system .....	40
10. The Project plan .....	40
11. References .....	40
12. Declaration .....	41

## **Project Details:**

### **1. Project Title: GreenNest**

GreenNest is a plant nursery management system with a web application and a mobile app. This system is designed according to the client requirements.

### **2. The Goal and Objectives:**

The main goal of this project is to provide a hassle free service for the customers by giving a platform to place their order and get them to their doorstep and manage both the store and the customers.

#### **GOALS:**

- Reduce the time consuming procedures in traditional shopping, customer relationship management, finance management, inventory and invoicing.
- Enhance the efficient delivery of service on time.
- Giving a user friendly service and maintaining proper customer history, service history.

#### **OBJECTIVES:**

- Automate the current working flow.
- Enhance customer reliability towards the company by providing better service on time.

### **3. Problem Definition and Motivation**

After the discussion with the client, he said that he has to face lots of problems in this pandemic situation.

- During the COVID 19 period, the company couldn't sell their products like other days and their sales went down.
- By today, people used to do online shopping instead of traditional shopping as it saves their time.
- As a side effect of this pandemic situation lots of people lost their jobs. And they started planting for selling purposes. But unfortunately, they couldn't find a customer base. So the client said that he can help them to sell their products.

In addition to that, the client asked for a system to manage the company details like stock, suppliers, customer history. Because he does these things manually.

- He mentioned a problem that he faced in every reordering process. Before ordering some products, he has to check each and every stock. The client handles bulk orders also and at the end of the month he wants to get an order history.

So the prevailing document- based process persists many inefficiencies in maintenance and also management.

To overcome the above mentioned problems we proposed a web-based system and a mobile app for users. Admin, Staff and Customer can use the web application and Customer and the delivery person can use the mobile app. Then the customers can select the product through the system, they can place their orders, and the company delivers that order to their doorstep. And the customer receives an SMS about order details. When the stock reaches the reorder level, the admin receives a notification. So we add the following features to our system.

- Stock management module.  
Inventory system to maintain information regarding stock.
- Payment module  
Here we provide both cash on delivery and online payment methods.
- Sales module  
Report generation regarding sales.
- Finance and Invoicing module  
Billing and invoice
- Staff module  
To maintain information and handle salaries.

This proposed system is designed according to the customer requirements.

#### **4. The scope of the project**

IN-SCOPE:

Following features are expected to be developed in the system.

Users (actors) of the system

- Admin

- Customer
- Staff
  - Moderator
  - Accountant
  - Delivery person

Main functionalities of the system:

## 1. Staff

- Login/Logout
- Reset password
- Request leave
- View Salary
- View leave statistics

### 1.1 Moderator

- Receive order notification
- View Orders
- Order confirmation
- Contact customer (using the chat)
- View order request
- View complaints

### 1.2 Accountant

- Generate sales reports
- Send invoice to the customer
- View invoice history
- View staff salary details
- View cash on delivery details and update order status

### 1.3 Delivery person

- View order details
- Update order status

## 2. Admin

- Manage staff
- Manage Stock
- Receive notification when product categories pass the reorder level.
- Manage suppliers
- Admin dashboard(View sales reports, view order history)

### 3. Customer

- View, Select product categories add to cart
- Place an order
- Make a complaint
- Give feedback
- Contact Moderator (using the chat)
- Receive an SMS about order details
- Request order

OUT-SCOPE: We handle employees salaries by considering their leaves. We do not mark their attendance.

## 5. Feasibility Study

### 5.1 Social feasibility

The main requirements of the system were obtained through the discussions with the client and also through the business proposal produced by the client. And he mentioned that he got lots of requests from his clients to develop an online method to buy products.

### 5.2 Technical Feasibility

- The system mainly consists of a web application for customers, admin, moderator and the accountant, a mobile app for the customers, delivery person and the database system.
- We hope to use modern technology to develop the product. So the end-users can easily use our system and get a real experience.
- We can learn these technologies and develop the system with 5 group members.
- Technologies are:
  - Frontend (Web)  
ReactJS
  - Frontend (Mobile)  
Flutter
  - Database  
MySQL
  - Backend  
Spring Boot
  - Drawing Tool  
Draw.io  
LucidChart
  - Version Control



- Git
- UI Design Tool
- Figma

- Technologies that we are going to use are freely available.

### **5.3 Operational feasibility**

The system has an admin, moderator, customer, delivery person and accountant. This feasibility study puts focus on how the proposed system is able to fulfill the system requirements and user needs.

- Any user who has a basic IT knowledge can access the system as the system provides simple and user-friendly UIs..
- Customers can put up an order online and do not need to waste their time from using traditional shopping.
- For a general user, the system does not require any other hardware components other than an electronic device with an internet connection.
- Existing knowledge of the users will be sufficient to work with the system. There will be no need to put an extra effort into training the users for the system.
- Sri Lankans are familiar with the use of online platforms for ordering like “www.daraz.lk”, so this system will not be a completely new experience and will likely be used.

### **5.4 Economic Feasibility**

- For our project we are going to use open source software and freely available tools. Therefore development cost will be zero.
- The cost for the domain name and hosting is approximately Rs. 5000. We plan to share this cost between group members and it is bearable.
- According to these, our proposed system is economically feasible.

## **5.5 Scheduled Feasibility**

Estimated man-hours for project completion will be as follows. The project is expected to be completed in 15 weeks. We use agile methodology to develop the system.

Number of members = 5

Man-hours per week = 10

Estimated number of weeks = 15

Estimated total of man-hours =  $(10 \times 15) \times 5 = 750$

Project will consume approximately 450 man hours to complete.

## **5.6 Legal and Ethical Feasibility**

In legal terms, the data processing system is made to agree with the local data protection regulations and whether the proposed venture is acceptable according to the laws of the country. The system asks its users to agree to the terms and conditions when registering to ensure data protection.

The system is overseen by the admin of the plant nursery. Therefore, any action can be taken against a user who violates the rules and regulations in the system. In the system, there are roles for users, and the system contains different permissions for users accordingly. Therefore, only authorized parties can alter the data in the system. All of the sensitive user data (card details) will be encrypted using MD5 hashing before storing it in the database to prevent the data from being exposed to a cyber attack.

## 6. Systems Architecture

### High Level Architecture

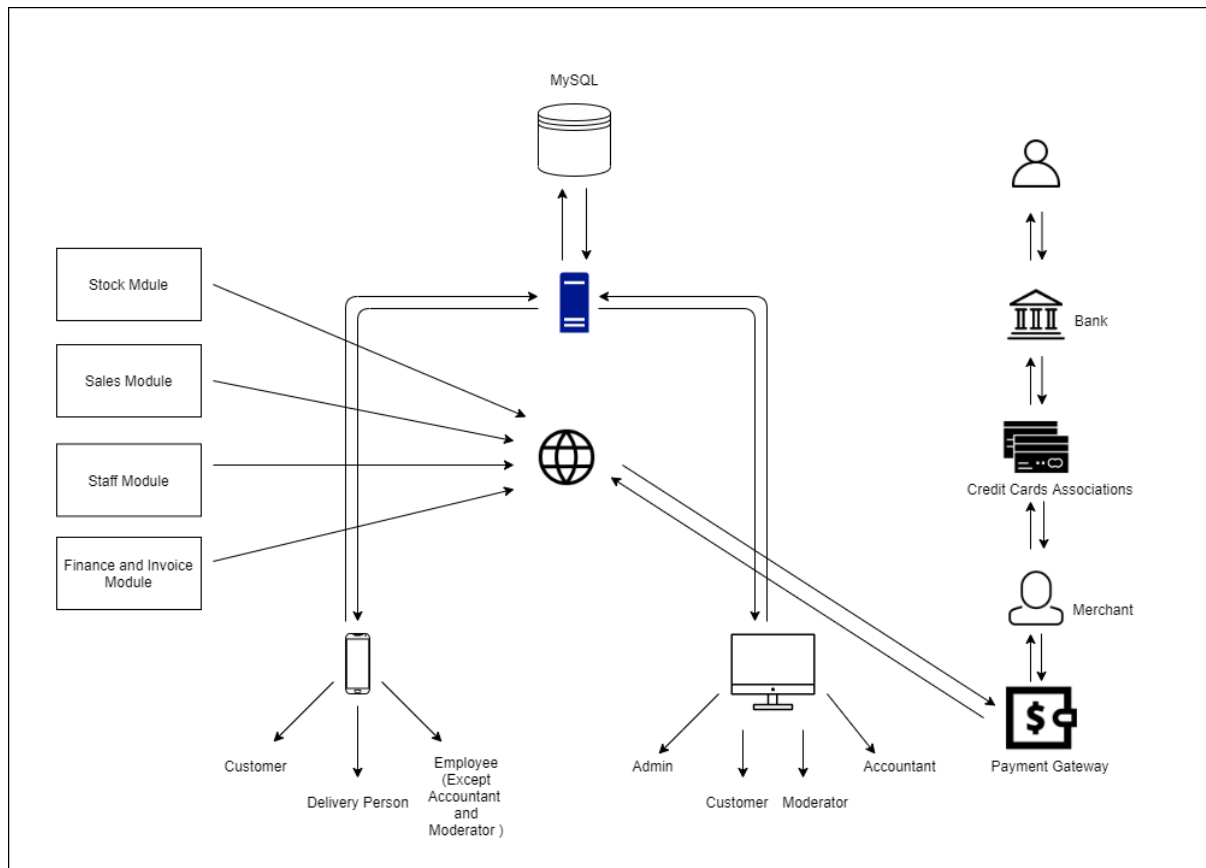


Figure 6.1: High Level Architecture

## 7. Requirements Specification

### 7.1 Non-functional Requirements

- **User Friendliness**

We design user interfaces according to the UX/UI principles. For the understanding and the use of users we give some tool tips for their help.

The website will be responsive and fit into the size of the browser and also different mobile screen sizes.

We also create a mobile application. So customers who cannot login through the website can use it.

The web application will have simple and understandable user interfaces so that interaction between user and system will be successful.

The web application will adapt familiar interfaces (e.g. payment interface will look like the payment interface of eBay), so the users will not be confused.

- **Accuracy and Reliability**

The system's reliability and 100% uptime will be guaranteed by using dedicated private servers. There will be two backup servers to ensure the system stays online if one system fails to operate. All of the system data will be synchronized among the main server and backup servers every 30 minutes.

For the data accuracy, admin register employees, moderators and accountants with the system and they should provide real data. Before adding a delivery person to the system we validate his license details.

In our system customers have a complaint and review option. So customers can use this option to rate products.

- **Availability**

The system guarantees its availability for customers for 24 hours every day. If a customer needs to order products he can make an order any time by using the web application or mobile app and it will be delivered within a week.

- **Security**

Each user would have different user privileges and different dashboards for their user accounts. The system will prompt users to enter a strong password for their accounts; otherwise, they will not be able to sign up into the system. For user authentication and authorization we are going to use spring security. We encrypt all the payment details of users and then store them in the database.

## Diagrams

### 1. Use Case diagram

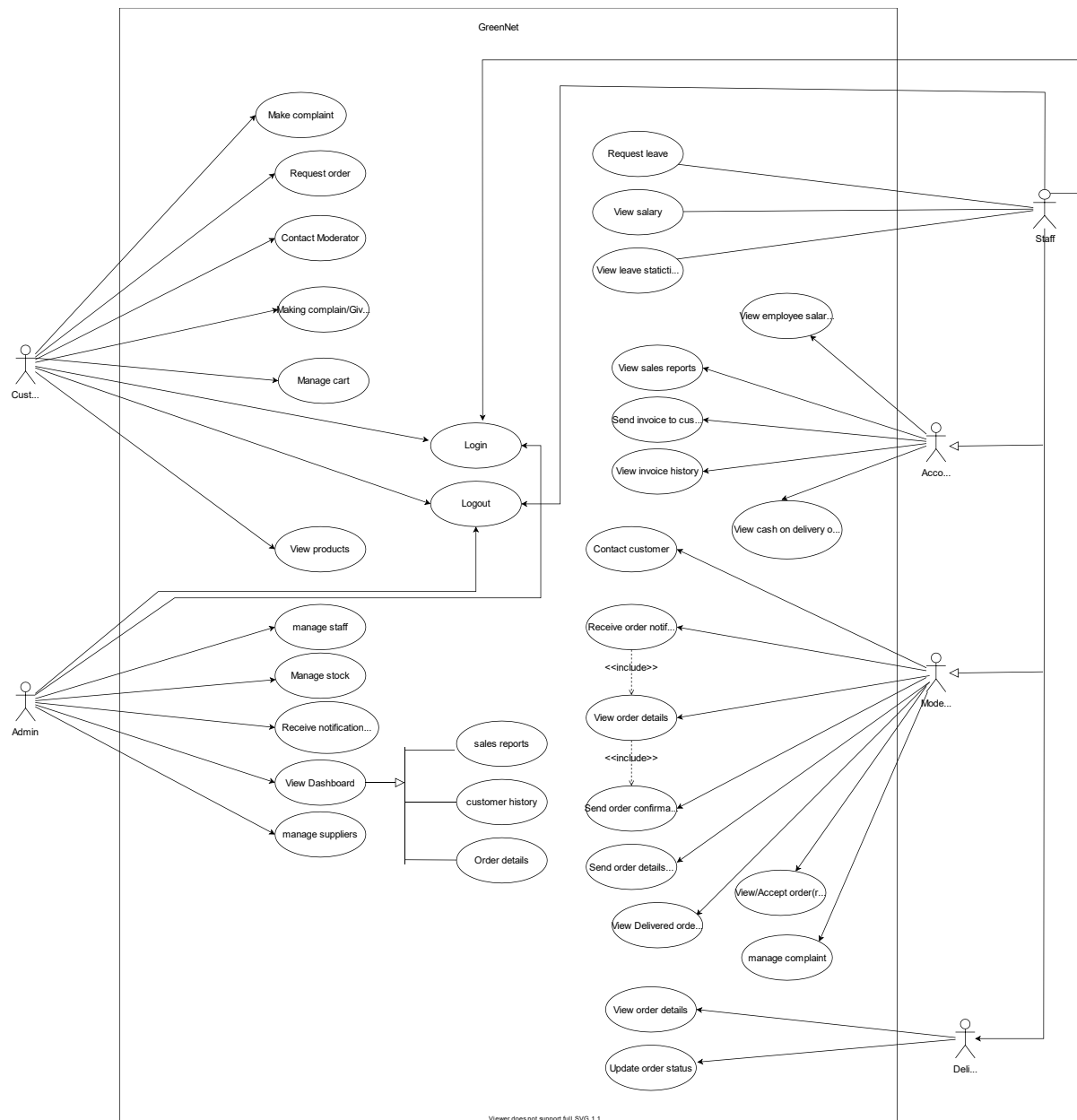


Figure 7.1: Use Case Diagram

## 2. Class diagram

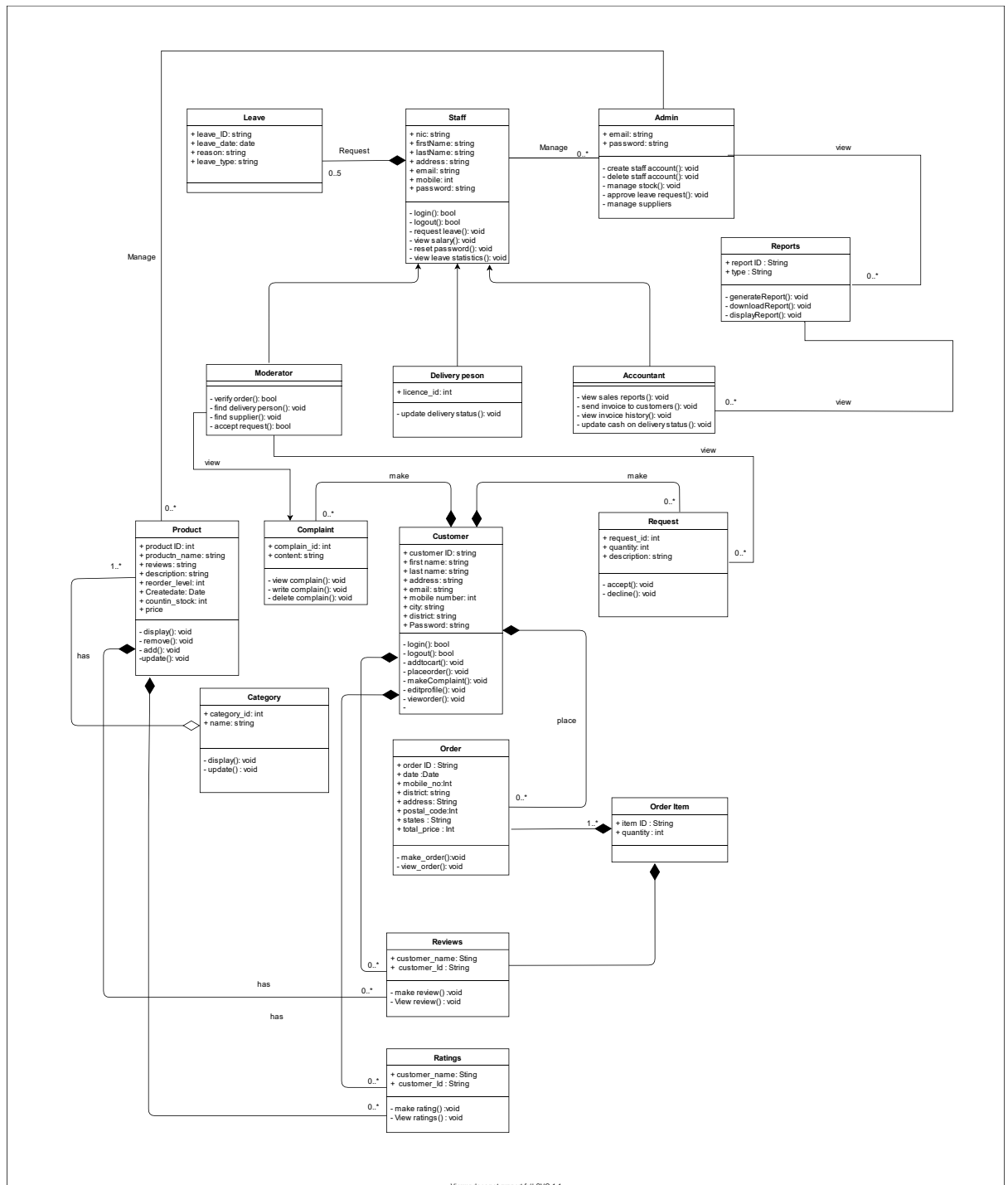


Figure 7.2: Class Diagram

### 3. Component diagram

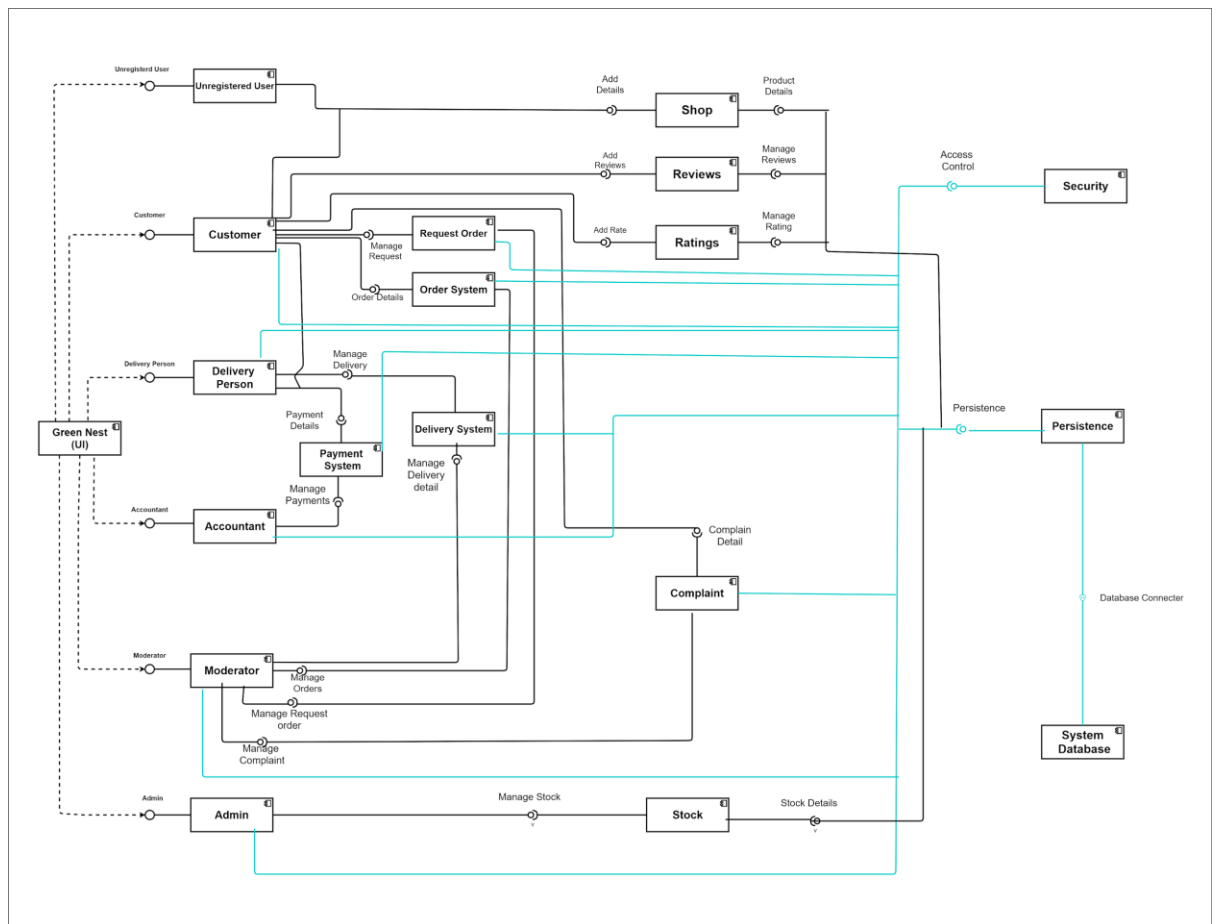


Figure 7.3: Component Diagram

#### 4. ER diagram

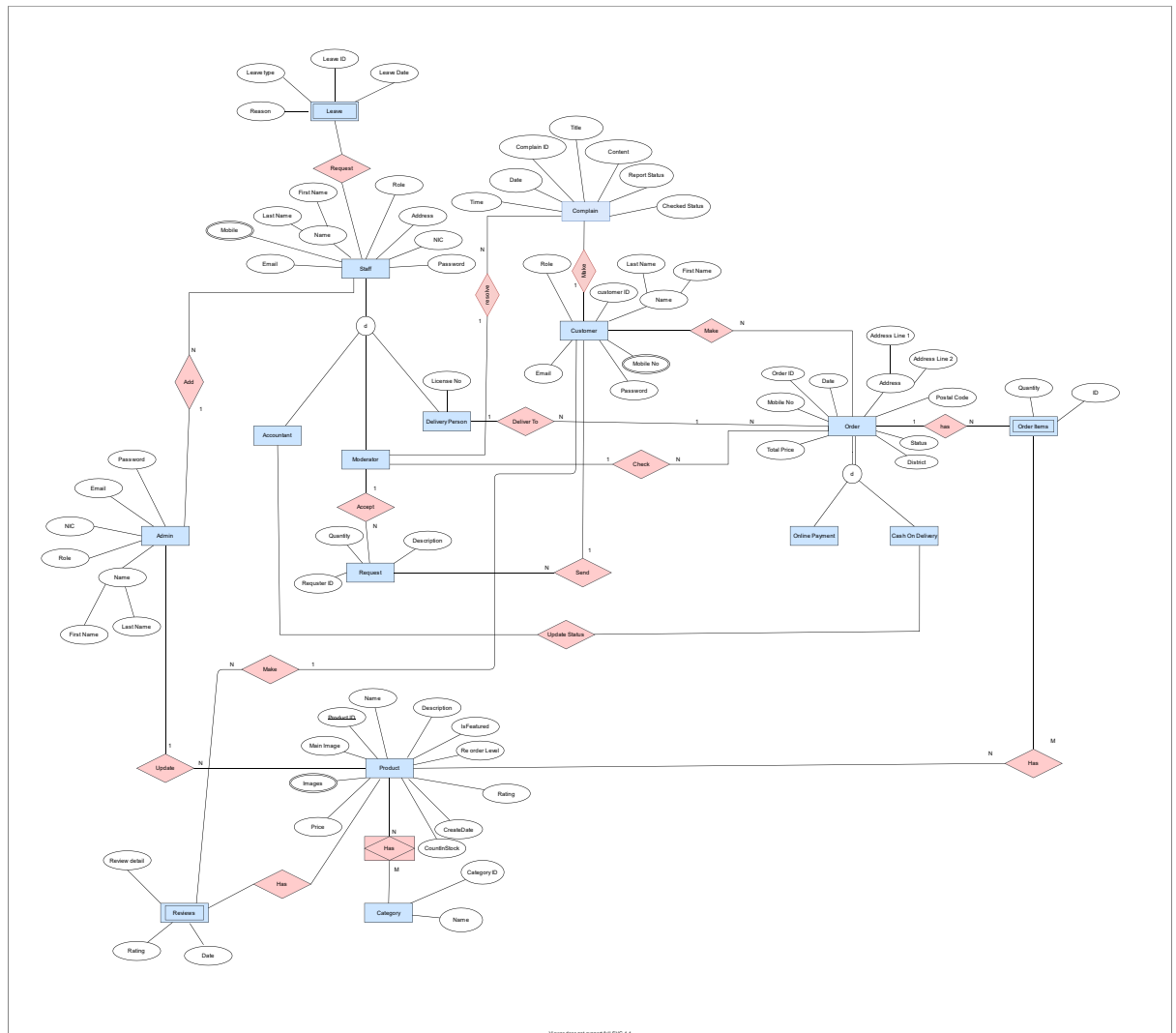


Figure 7.4: ER Diagram



## 5. Activity diagrams

### Admin

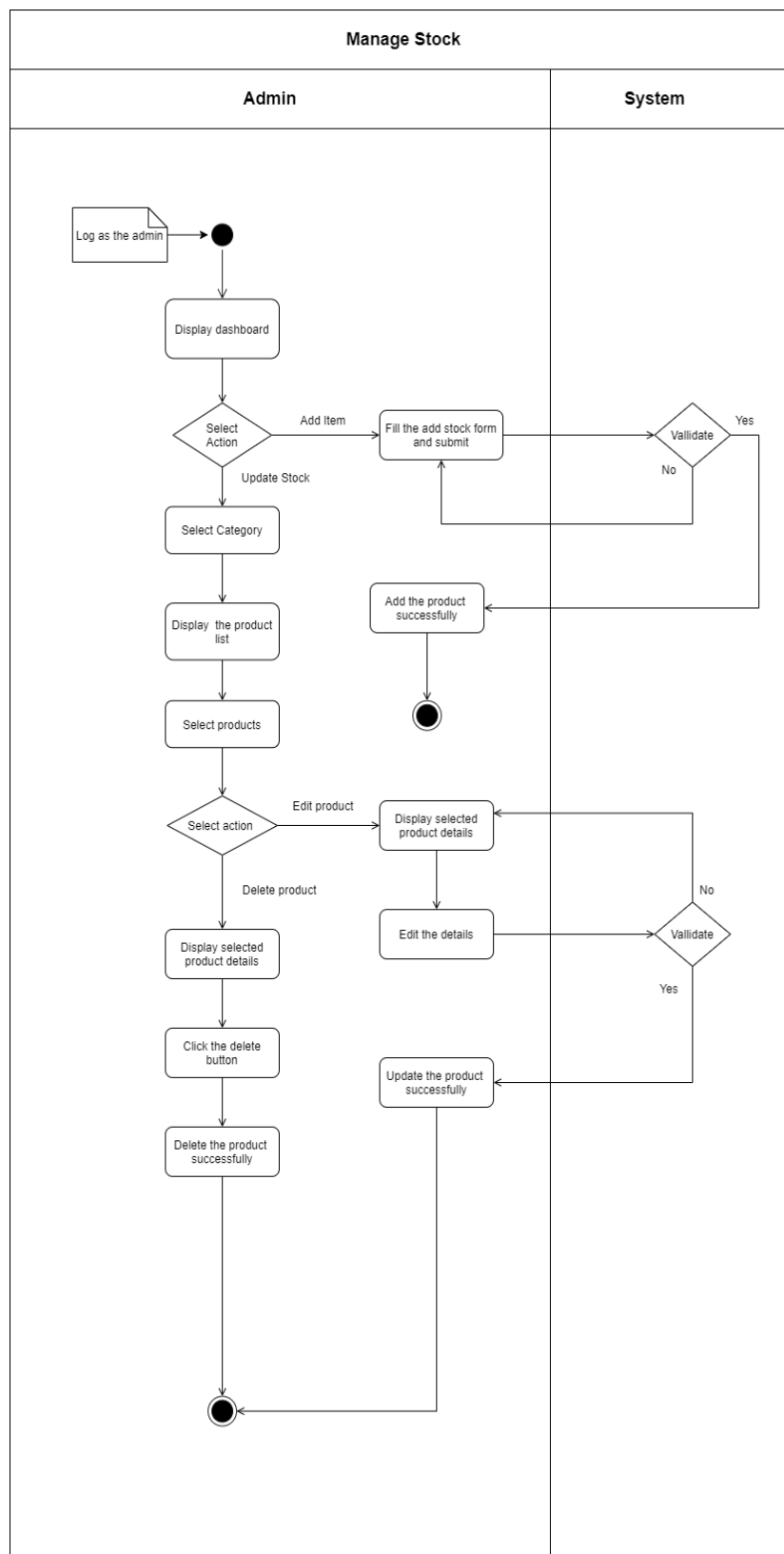
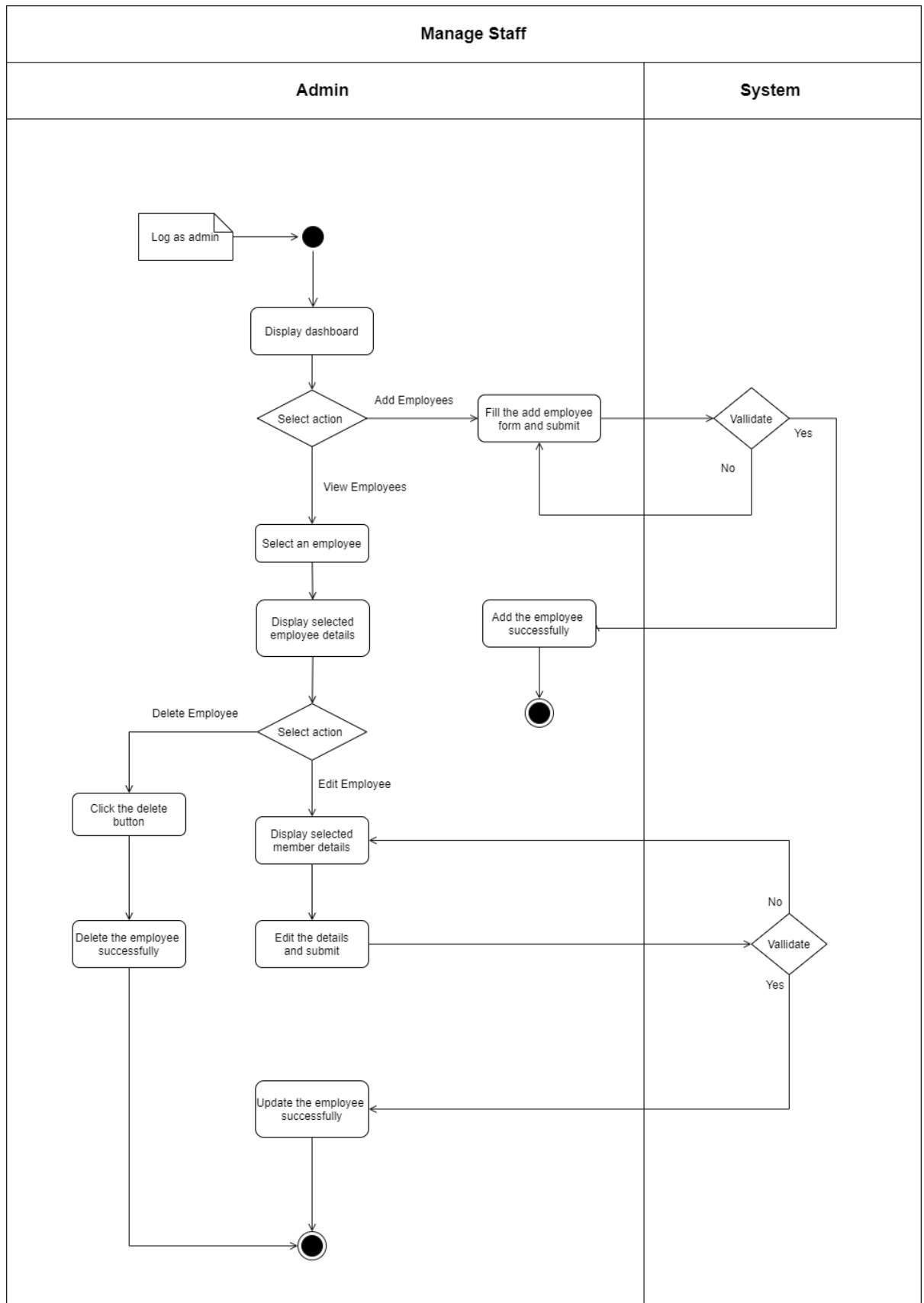


Figure 7.5.1: Activity diagram for manage stock



*Figure 7.5.2: Activity diagram for manage staff*

## Customer

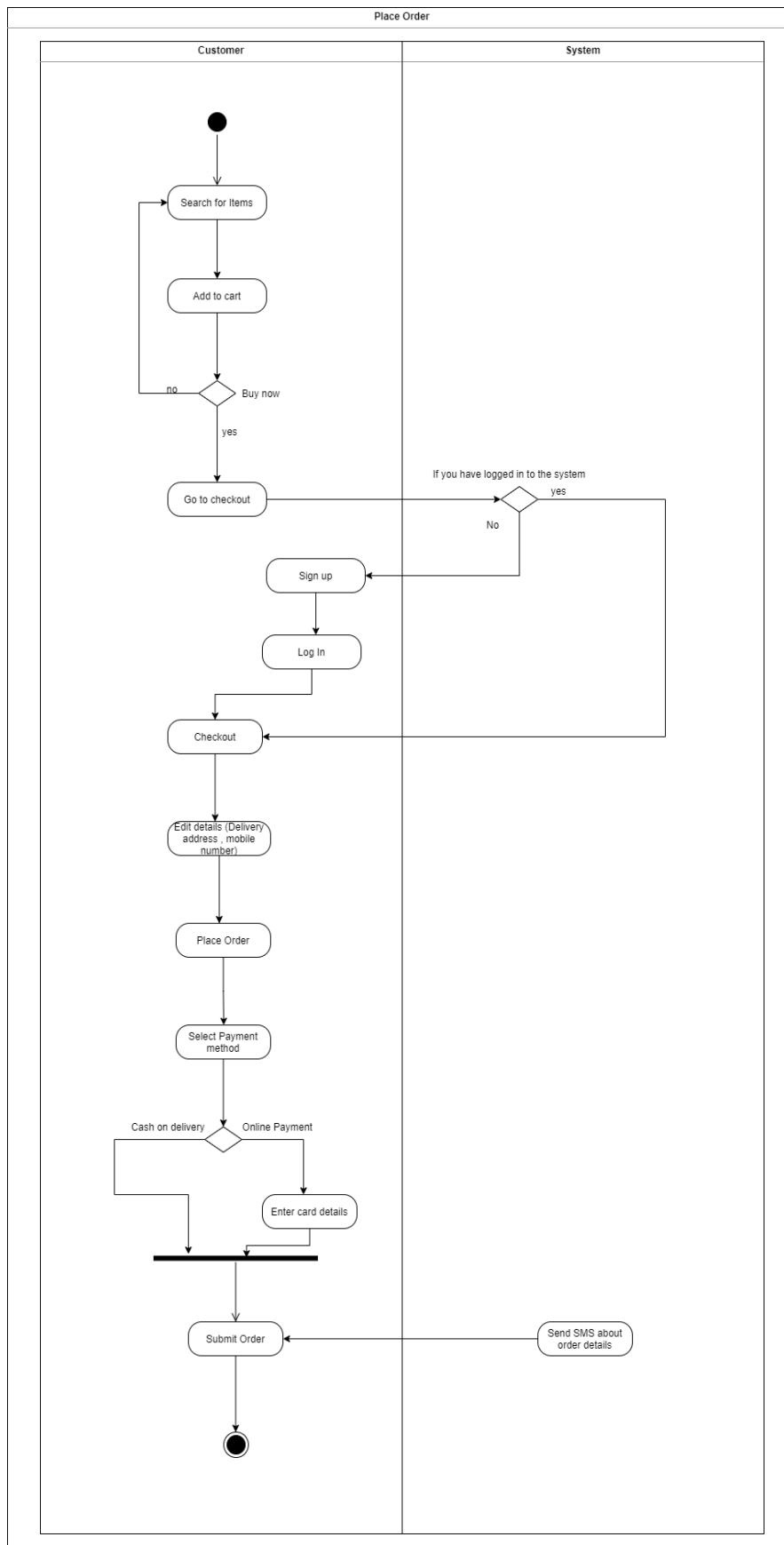
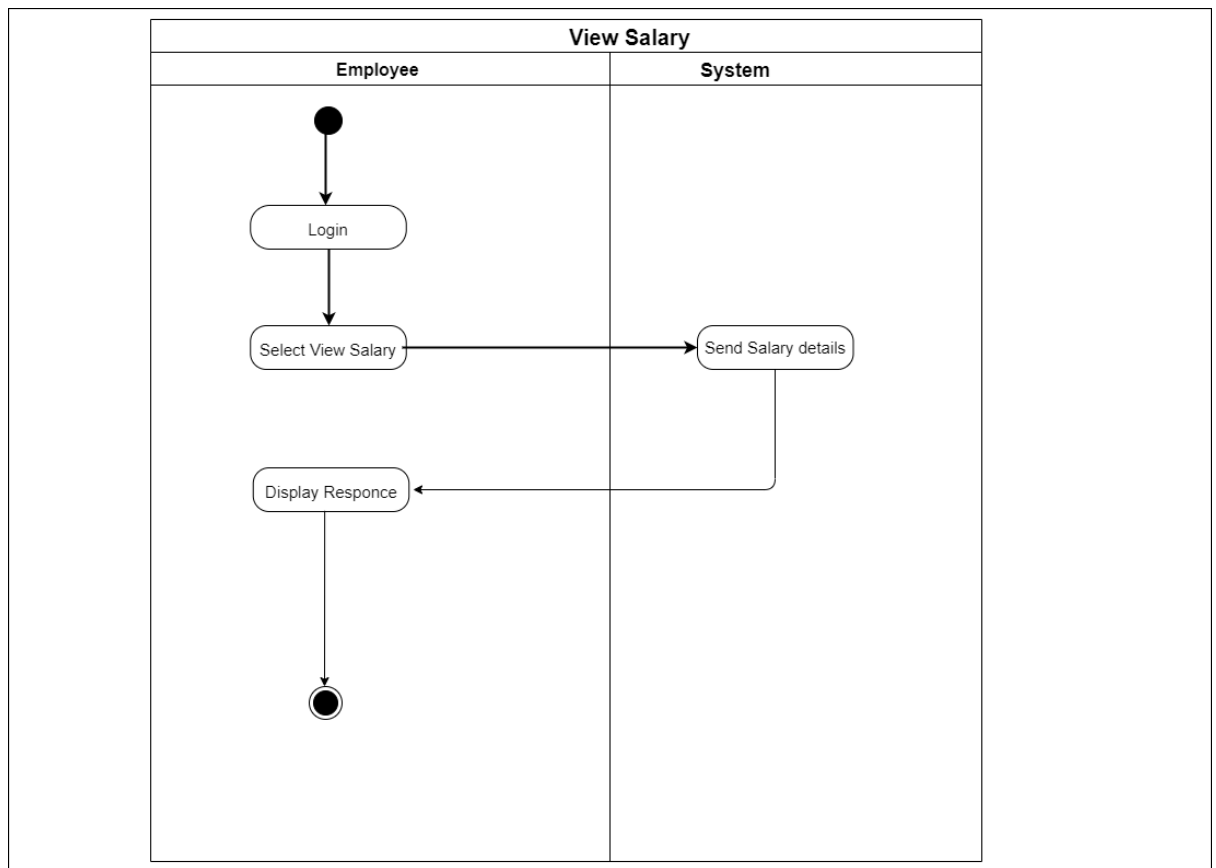
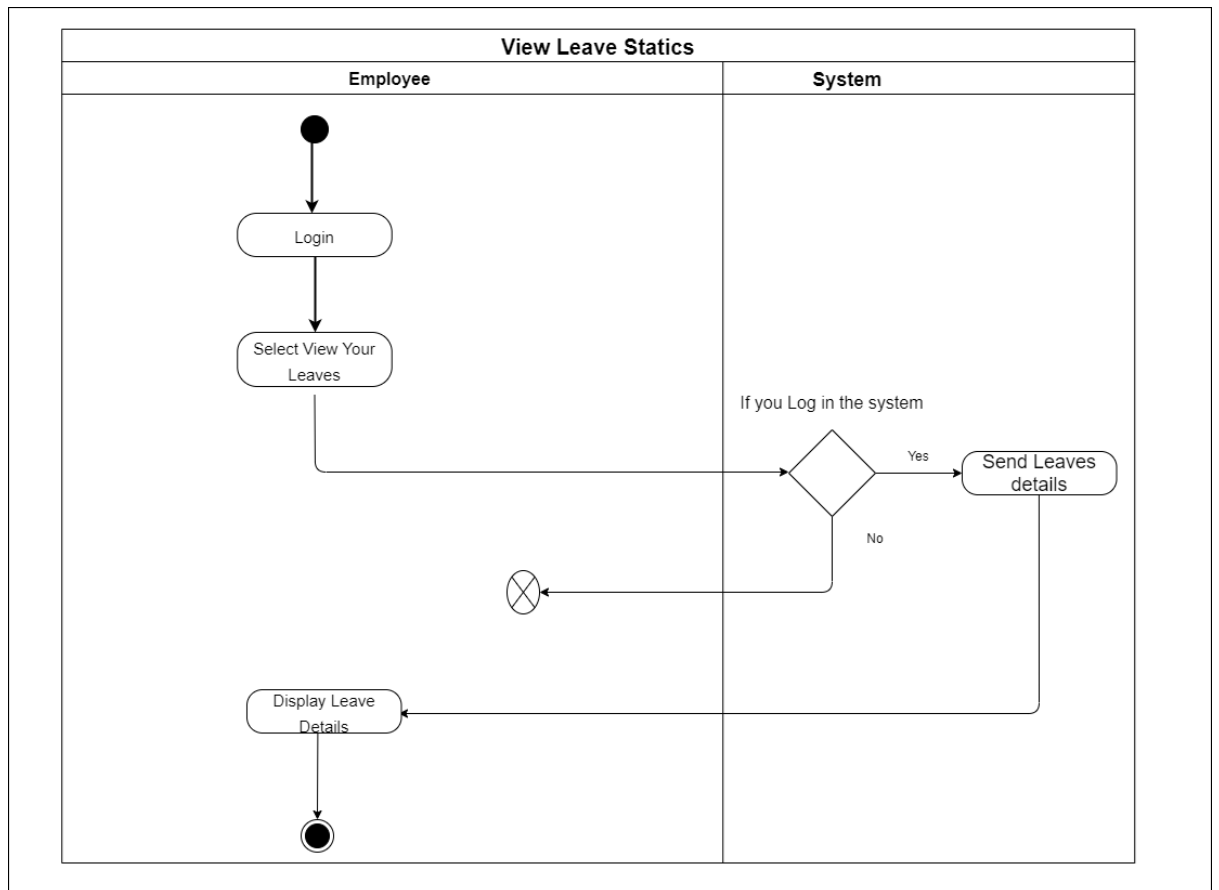


Figure 7.5.3 Activity diagram for place order

## Employee



*Figure 7.5.4: Activity for view salary*



*Figure 7.5.5: Activity diagram for view salary statistics*

## Moderator

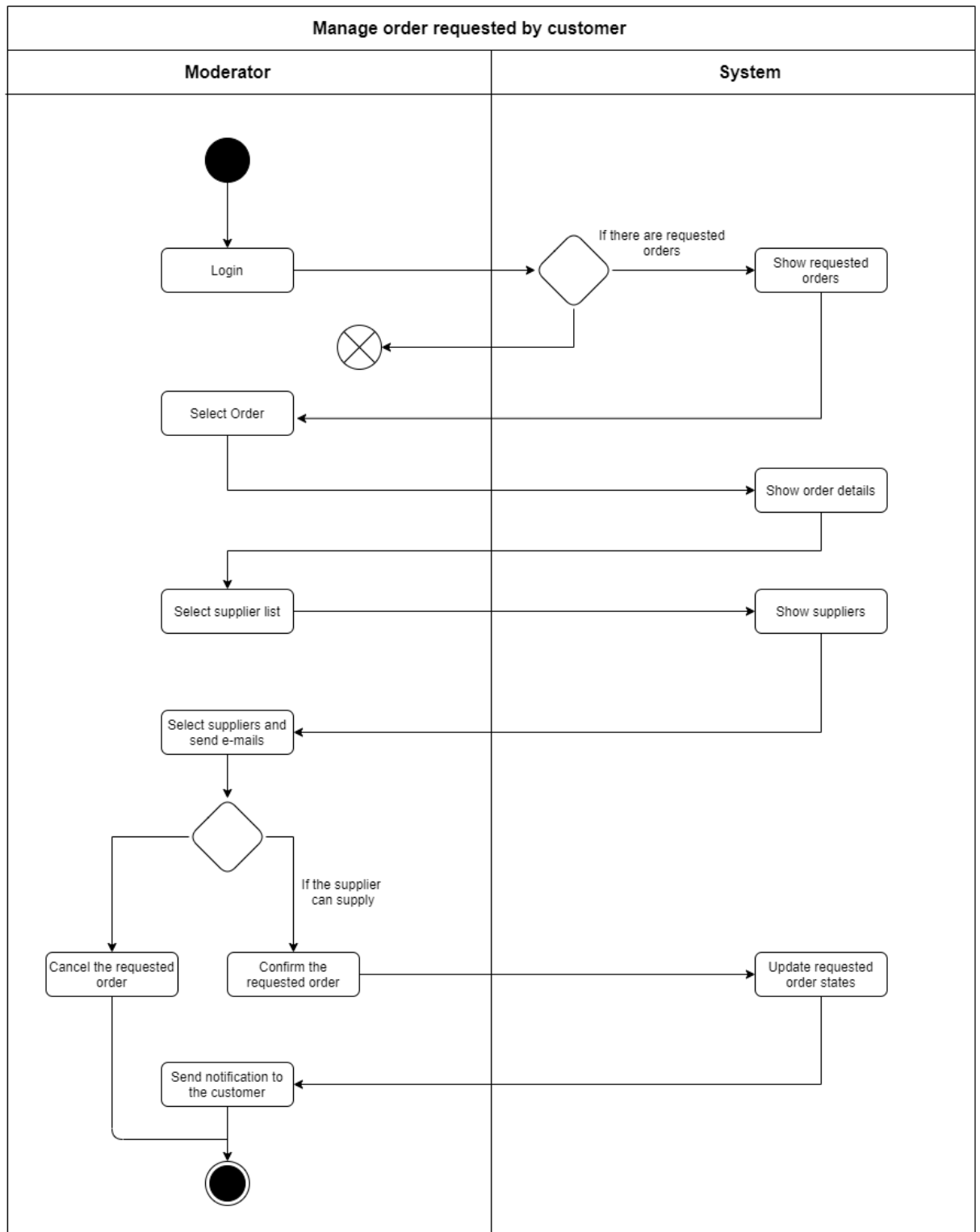


Figure 7.5.6: Activity Diagram for Manage order requested by customer

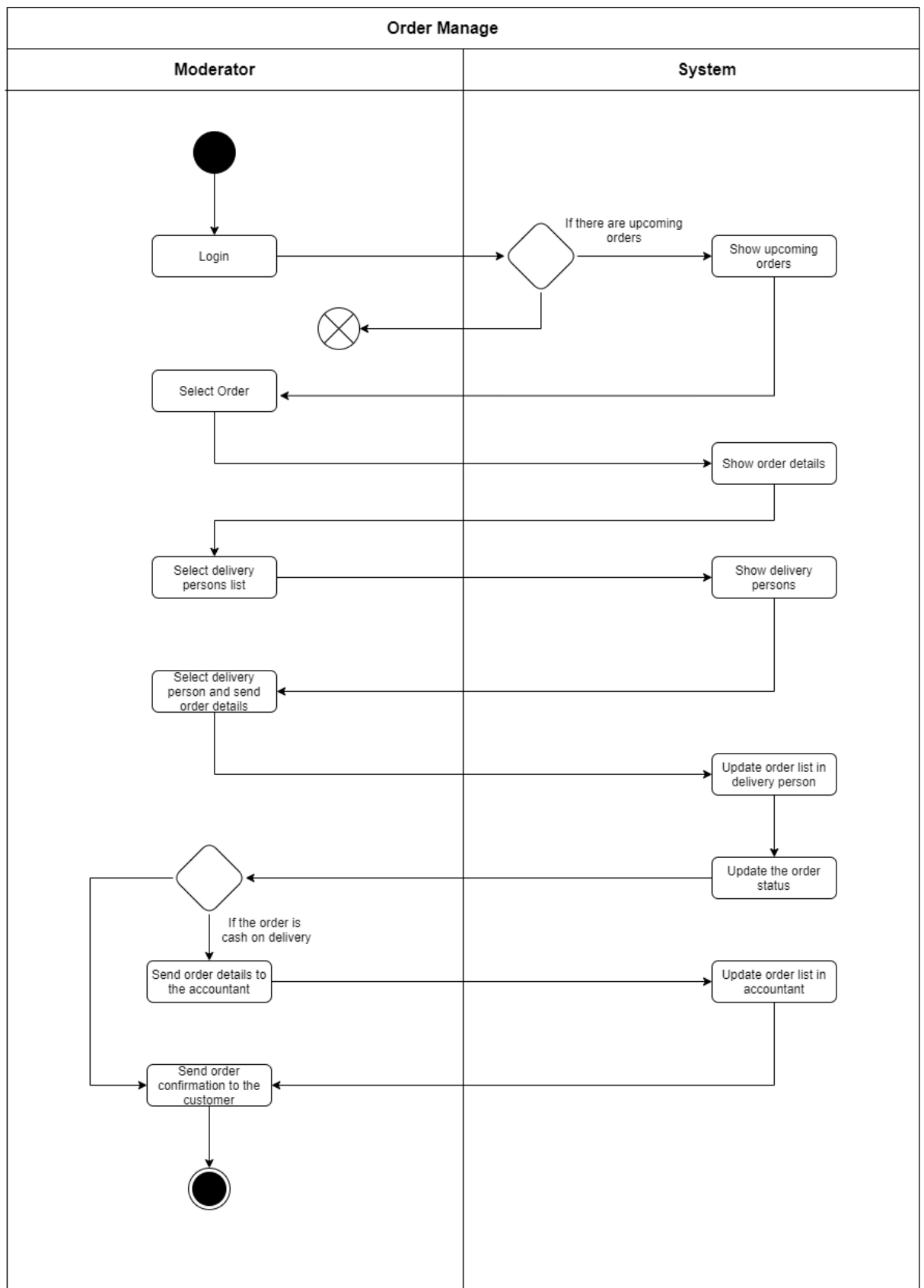
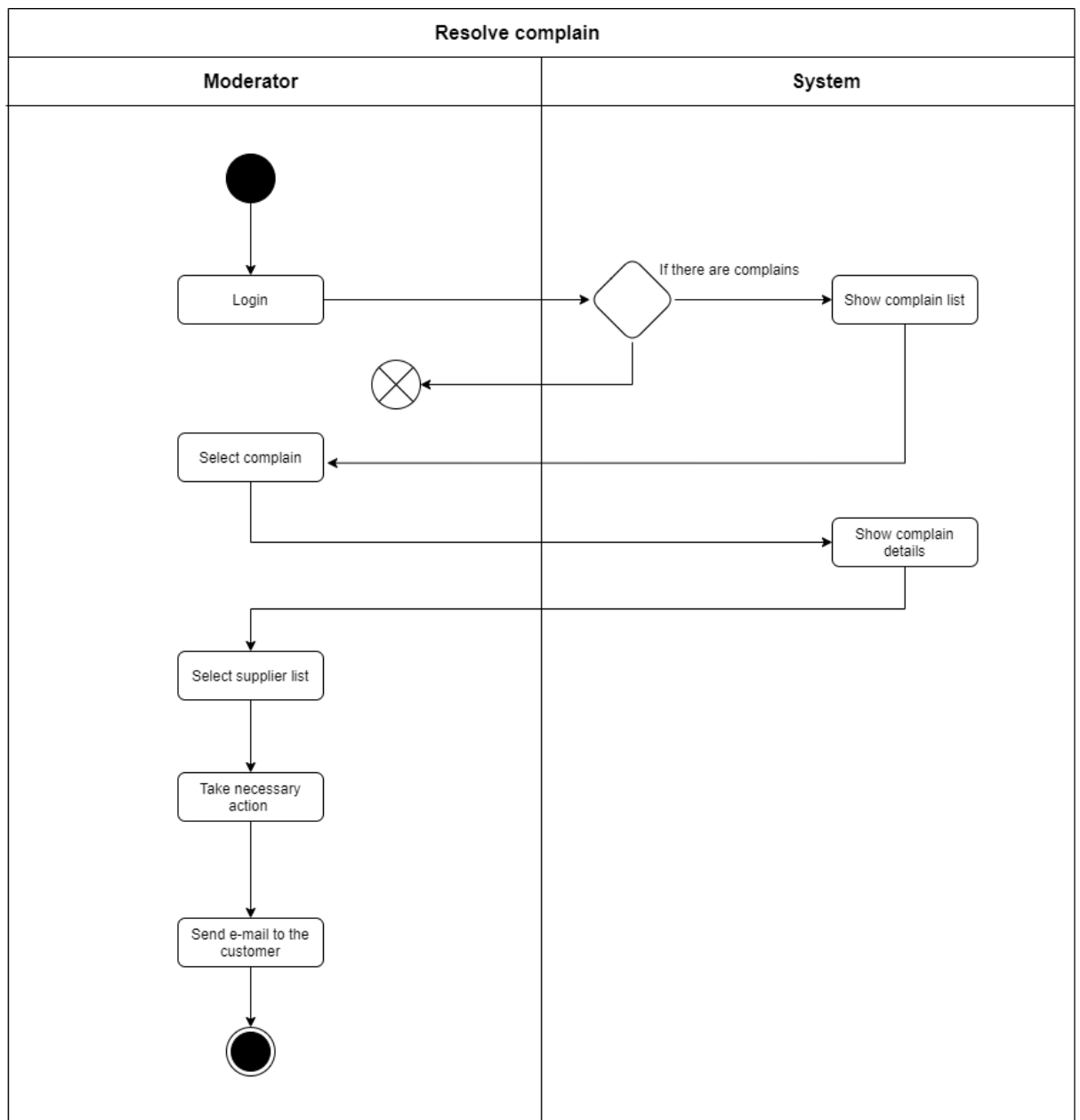


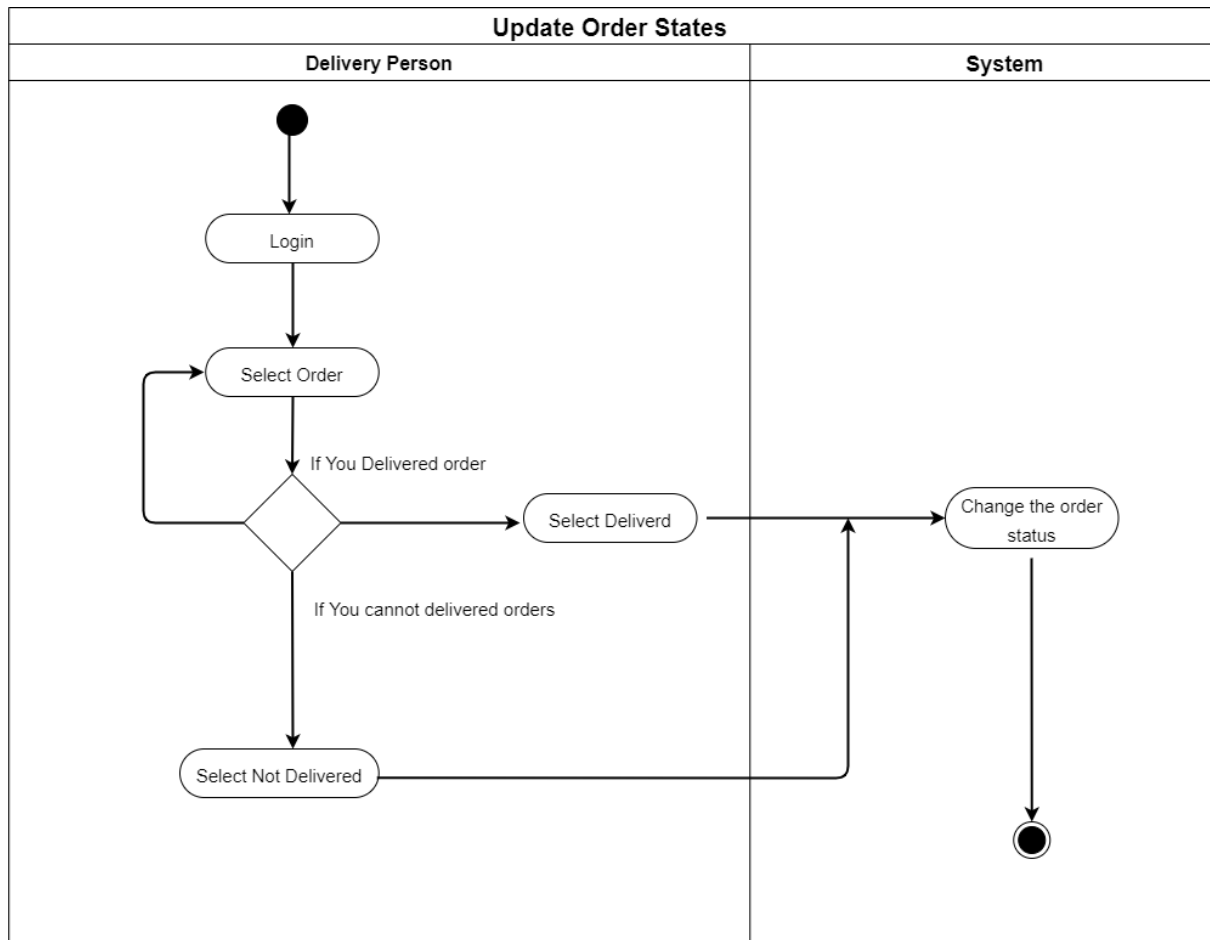
Figure 7.5.7: Activity diagram for order manage



*Figure 7.5.8: Activity diagram for resolve complain*



## Delivery person



*Figure 7.5.9: Activity diagram for update order status*

## Accountant

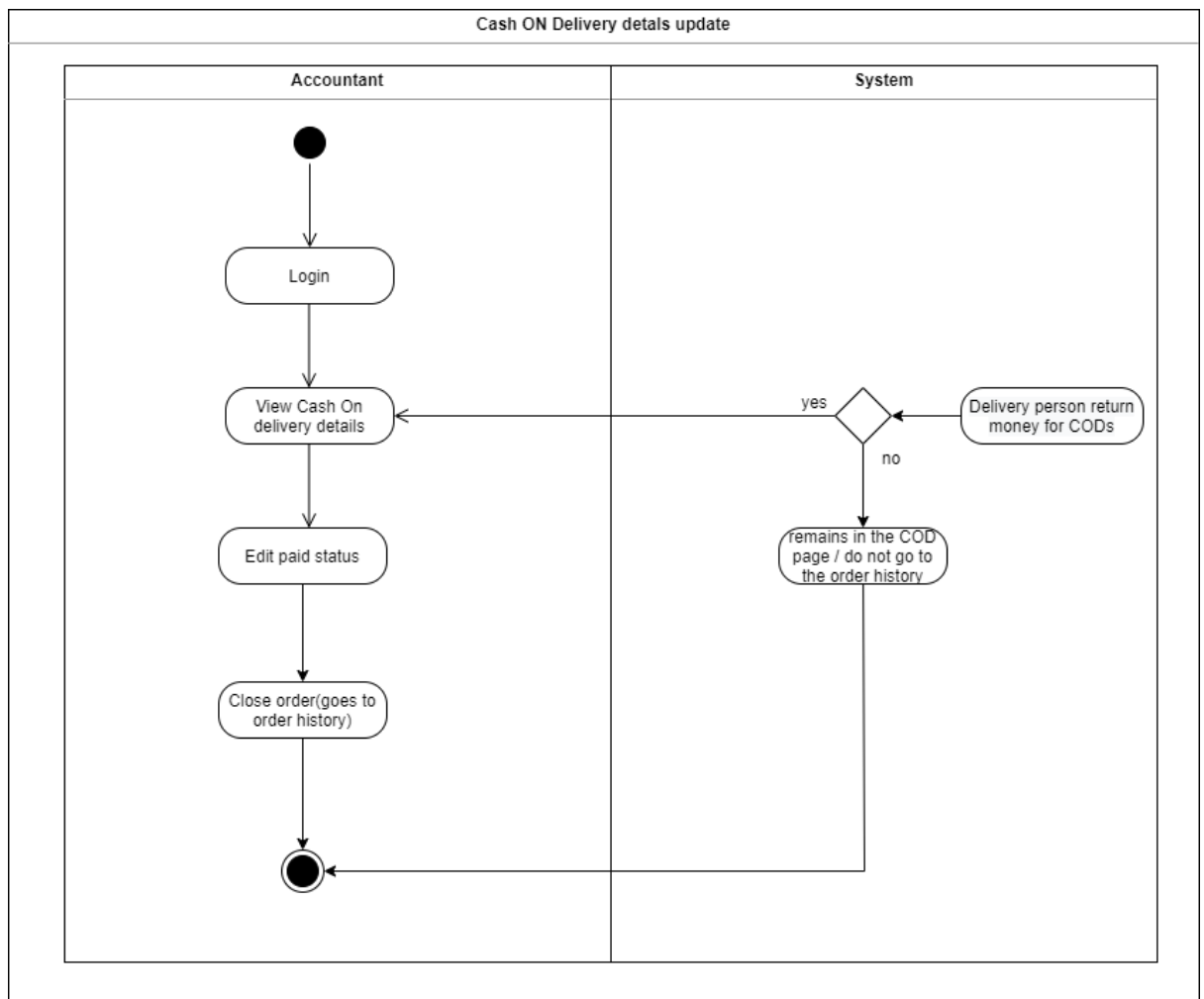


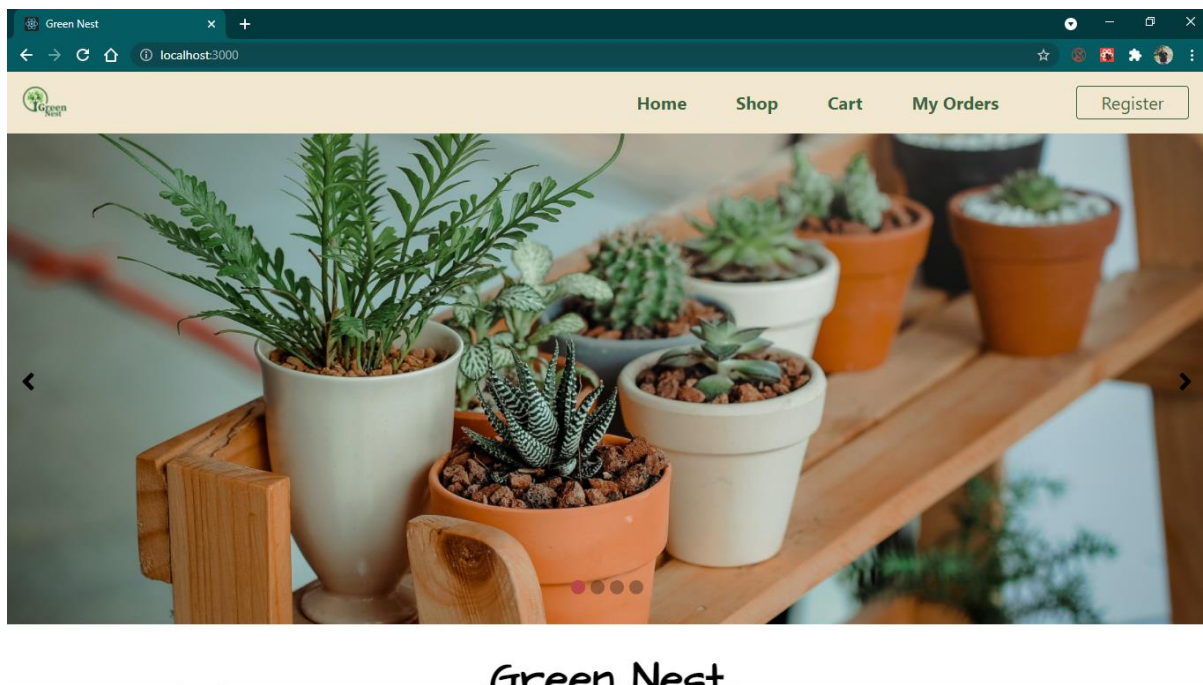
Figure 7.5.10: Activity diagram for cash on delivery details update

## 8. User Interfaces

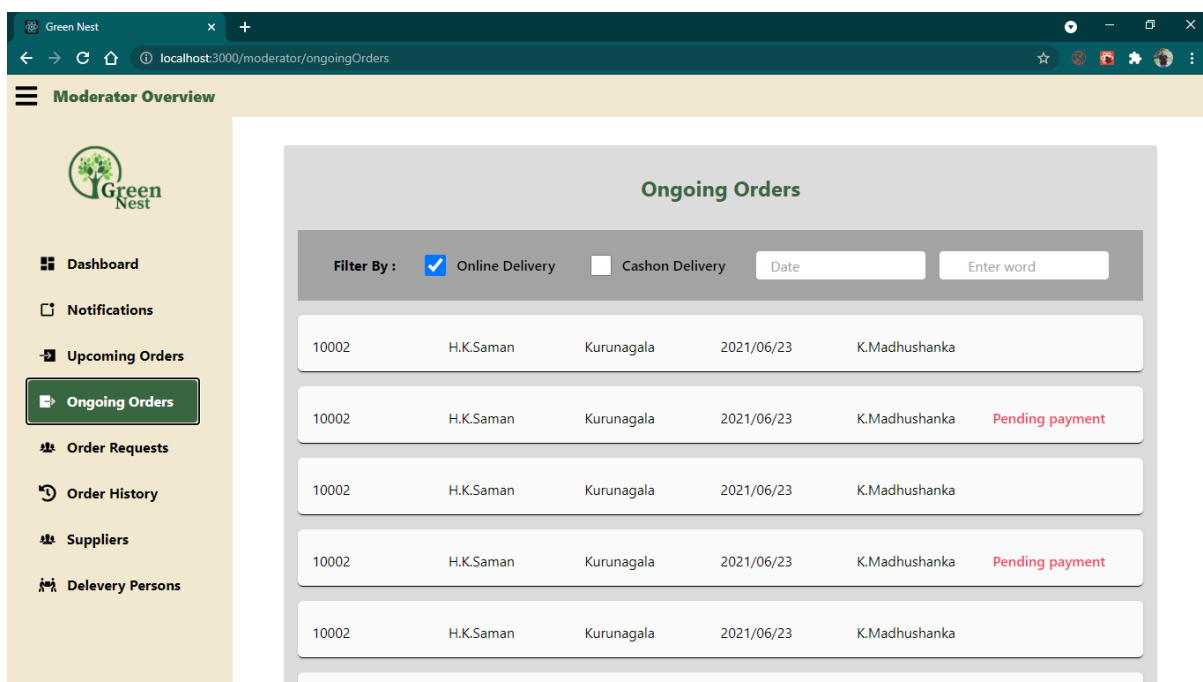
In our system, we develop both web and mobile applications. Therefore we create simple user interfaces for the customer and the company side.

### Web application

#### Home Page



#### Moderator's UIs



Green Nest

localhost:3000/moderator/deliveryPersons

Green Nest

Dashboard

Notifications

Upcoming Orders

Ongoing Orders

Order Requests

Order History

Suppliers

Delevery Persons

Delivery Persons List

Name	NIC	Mobile	Status	
Sulakshanee Theja Sulakshanee@gmail.com	977224523v	0711229957	Available	Contact
Chatuhrika Lakmini lakmini@gmail.com	945698215v	0751236589	Unavailable	Contact
Hiruni Pabasara pabasara@gmail.com	994521368v	0778542365	Available	Contact
Piumi Dulanjali dulanjali@gmail.com	977453652v	0764523279	Unavailable	Contact

Green Nest

localhost:3000/moderator/dashboard

Green Nest

Dashboard

Notifications

Upcoming Orders

Ongoing Orders

Order Requests

Order History

Suppliers

Delevery Persons

Today Orders 20

Upcomming Orders 5

Confirmed Orders 4

Best Selling Product

Product	Sales
Anthurium	9
Orchid	11
Mango	19
Guava	22

Status	Percentage
Upcoming Orders	68.6%
Ongoing Orders	31.4%

28

Green Nest

localhost:3000/moderator/systemOrders

Moderator Overview

Green Nest

Dashboard

Notifications

Upcoming Orders

Ongoing Orders

Order Requests

Order History

Suppliers

Delevery Persons

Order History

Filter By : ☐ Online Delivery ☐ Cashon Delivery

10002	H.K.Saman	Kurunagala	2021/06/23	K.Madhusanka
10002	H.K.Saman	Kurunagala	2021/06/23	K.Madhusanka Paid
10002	H.K.Saman	Kurunagala	2021/06/23	K.Madhusanka
10002	H.K.Saman	Kurunagala	2021/06/23	K.Madhusanka Paid
10002	H.K.Saman	Kurunagala	2021/06/23	K.Madhusanka

Green Nest

localhost:3000/moderator/orderRequests

Moderator Overview

Green Nest

Dashboard

Notifications

Upcoming Orders

Ongoing Orders

Order Requests

Order History

Suppliers

Delevery Persons

Order Requests

Product Category : Fruits

Item Name : Mango Plant

Quantity Requested : 15

I want to request 15 Mango plants before end of this month. Please let me know your response as soon as possible.Thank you.

Find Supliers

Accept

Decline

Product Category : Fruits

Item Name : Mango Plant

Quantity Requested : 15

I want to request 15 Mango plants before end of this month. Please let me know your response as soon as possible.Thank you.

Find Supliers

Accept

Decline

Product Category : Fruits

Item Name : Mango Plant

Quantity Requested : 15

I want to request 15 Mango plants before end of this month. Please let me know your response as soon as possible.Thank you.

Find Supliers

Accept

Decline

29

Green Nest

localhost:3000/moderator/deliveryPersons

Green Nest

Dashboard

Notifications

Upcoming Orders

Ongoing Orders

Order Requests

Order History

Suppliers

Delevery Persons

Delivery Persons List

Name	NIC	Mobile	Status	
Sulakshanee Theja Sulakshanee@gmail.com	977224523v	0711229957	Available	Contact
Sulakshanee Theja Sulakshanee@gmail.com	977224523v	0711229957	Unavailable	Contact
Sulakshanee Theja Sulakshanee@gmail.com	977224523v	0711229957	Available	Contact
Sulakshanee Theja Sulakshanee@gmail.com	977224523v	0711229957	Unavailable	Contact

Green Nest

localhost:3000/moderator/supplierList

Green Nest

Dashboard

Notifications

Upcoming Orders

Ongoing Orders

Order Requests

Order History

Suppliers

Delevery Persons

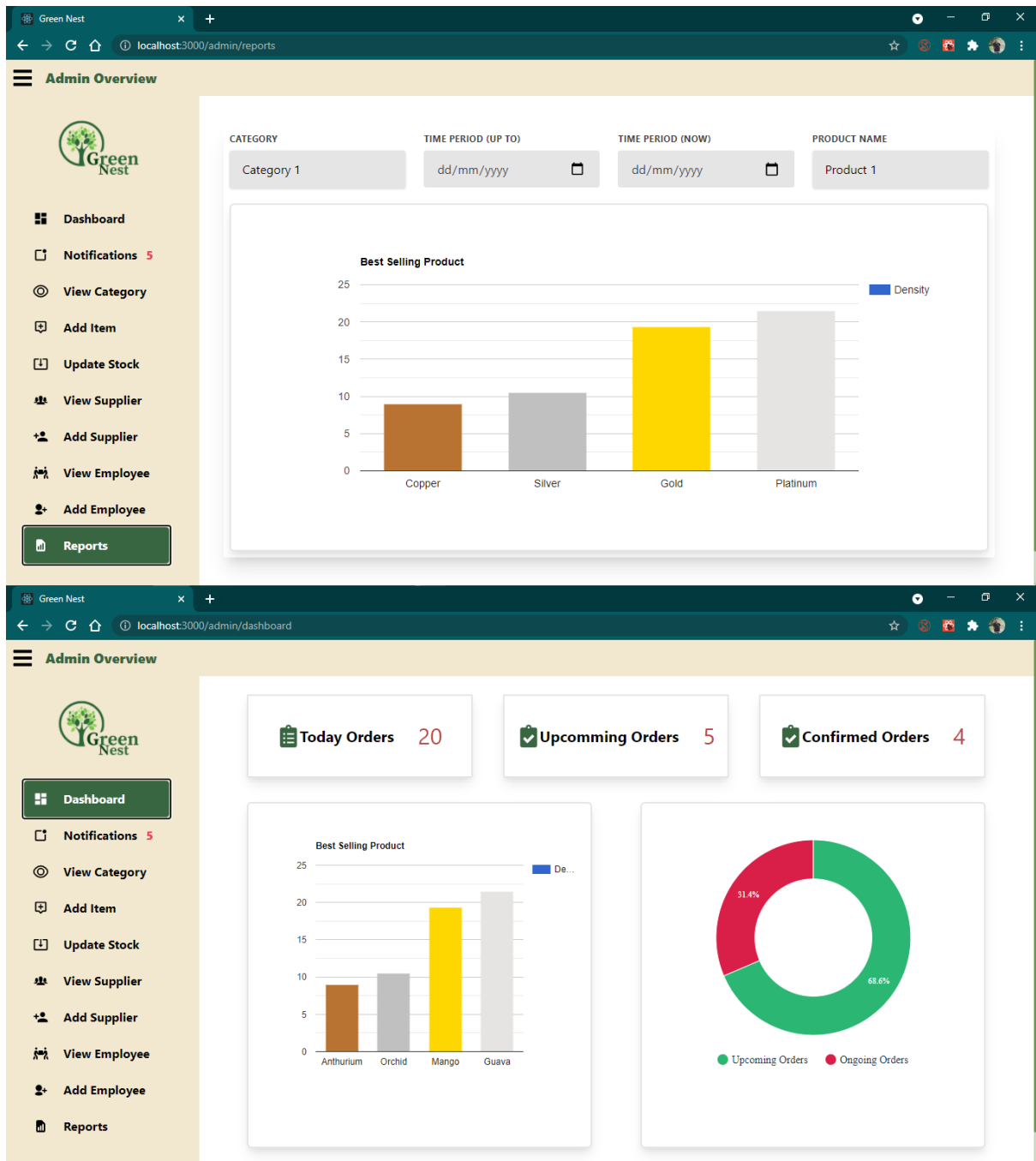
Fruit Plants Suppliers

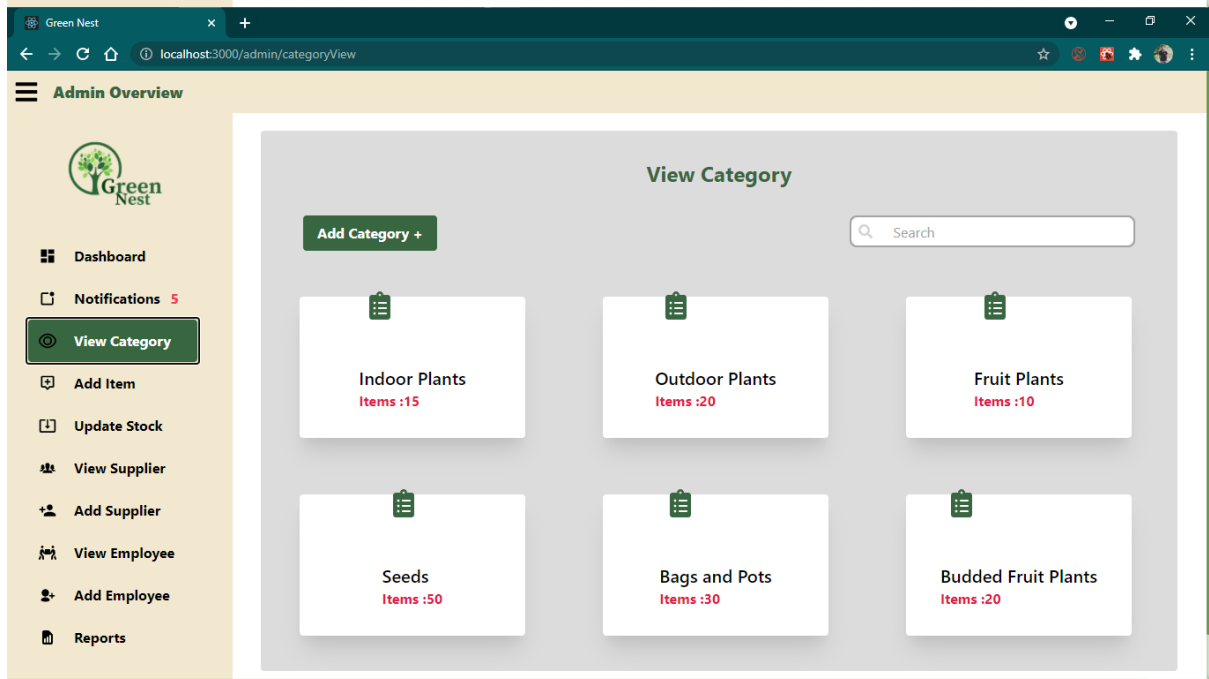
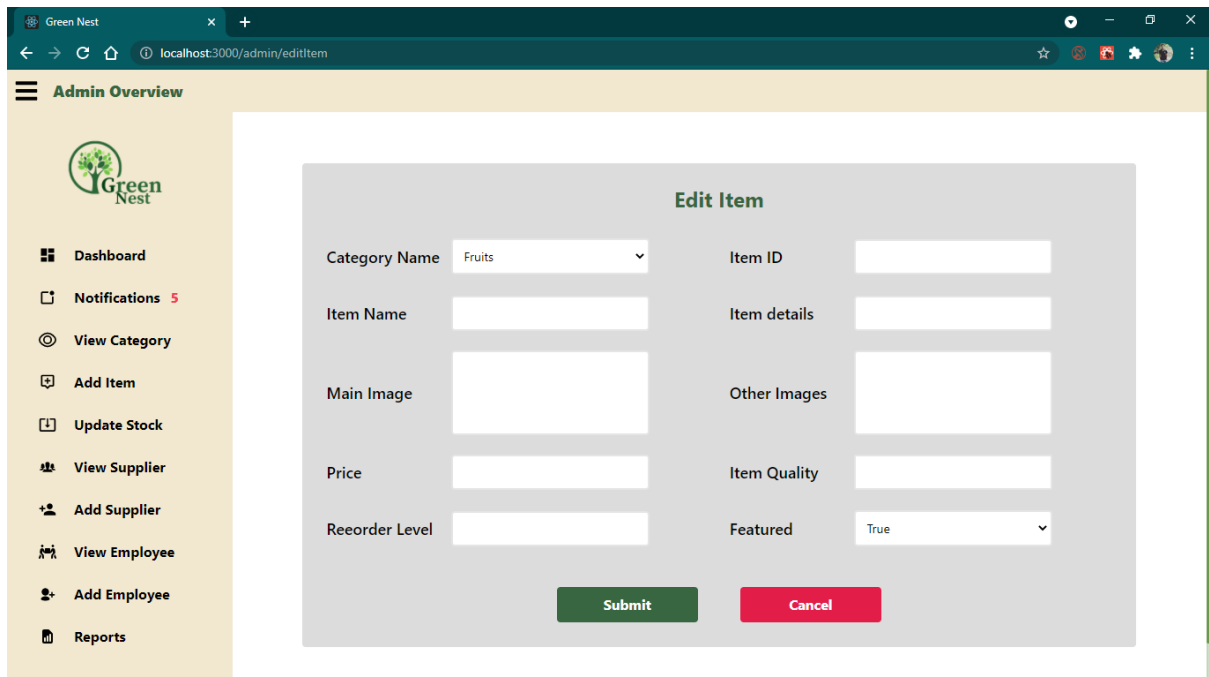
Name	Address	Mobile	
Sulakshanee Theja sulakshanee@gmail.com	Pala Thawana, Sooriyawewa, Hambantota	0711234553	Contact
Chathurika Perera chathurika@gmail.com	Green House, No.265, Kurunagala	0715428643	Contact
Hiruni Amarakoon hiruni@gmail.com	Thuru Wimana, Kuliyapitiya, Kurunagala	0715829347	Contact
Piyumi Dulanjalee piyumi@gmail.com	Plant House, No.456, Matara	0772036782	Contact
Hashan Chandima hashan@gmail.com	Thuru Thuru, No.89, Kurunagala	0769299923	Contact

Flower Plants Suppliers

30

## Admin's UIs







Green Nest

localhost:3000/admin/addSupplier

Admin Overview

Green Nest

Dashboard

Notifications 5

View Category

Add Item

Update Stock

View Supplier

Add Supplier

View Employee

Add Employee

Reports

Add Supplier

First Name

Last Name

Address

Email

Mobile

Product Categories

☐ Fruit Plants

☐ Food Plants

☐ Flower Plants

☐ Indoor Plants

☐ Outdoor Plants

Submit

Cancel

Green Nest

localhost:3000/admin/viewSupplier

Admin Overview

Green Nest

Dashboard

Notifications 5

View Category

Add Item

Update Stock

View Supplier

Add Supplier

View Employee

Add Employee

Reports

Add Supplier +

Search

Sulakshanee Theja

Thuru Plant Nursery, Kandy

071-1229957

sulakshanee@gmail.com

Fruit Plants

Indoor Plants

Outdoor Plants

Outdoor Plants

Fruit Plants

Indoor Plants

Sulakshanee Theja

Thuru Plant Nursery, Kandy

071-1229957

sulakshanee@gmail.com

Fruit Plants

Indoor Plants

Outdoor Plants

Outdoor Plants

Fruit Plants

Indoor Plants

Sulakshanee Theja

Thuru Plant Nursery, Kandy

071-1229957

sulakshanee@gmail.com

Fruit Plants

Indoor Plants

Outdoor Plants

Outdoor Plants

Fruit Plants

Indoor Plants

Sulakshanee Theja

Thuru Plant Nursery, Kandy

071-1229957

sulakshanee@gmail.com

Fruit Plants

Indoor Plants

Outdoor Plants

Outdoor Plants

Fruit Plants

Indoor Plants

33

Green Nest

localhost:3000/admin/addItem

Admin Overview

Green Nest

Dashboard

Notifications 5

View Category

Add Item

Update Stock

View Supplier

Add Supplier

View Employee

Add Employee

Reports

Add Item

Category Name

Fruits

Item ID

Item Name

Item details

Main Image

Other Images

Price

Item Quality

Reorder Level

Featured

True

Submit

Cancel

Green Nest

localhost:3000/admin/viewEmployee

Admin Overview

Green Nest

Dashboard

Notifications 5

View Category

Add Item

Update Stock

View Supplier

Add Supplier

View Employee

Add Employee

Reports

Add Employee +

Search

Moderators

Accountants

Delivery Persons

Workers

Name	NIC	Address	Mobile
Sulakshanee Theja sulakshanee@gmail.com	977766551v	Sooriyawewa, Hambantota	0711234553
Chathurika Perera chathurika@gmail.com	974618119v	No.265, Kurunagala	0715428643
Hiruni Amarakoon hiruni@gmail.com	994161628v	Kuliyapitiya, Kurunagala	0715829347
Piyumi Dulanjalee piyumi@gmail.com	984141094v	No.456, Matara	0772036782
Hashan Chandima hashan@gmail.com	991643484v	No.89, Kurunagala	0769299923

**Green Nest**

Admin Overview

**Add Employee**

First Name

Last Name

Address

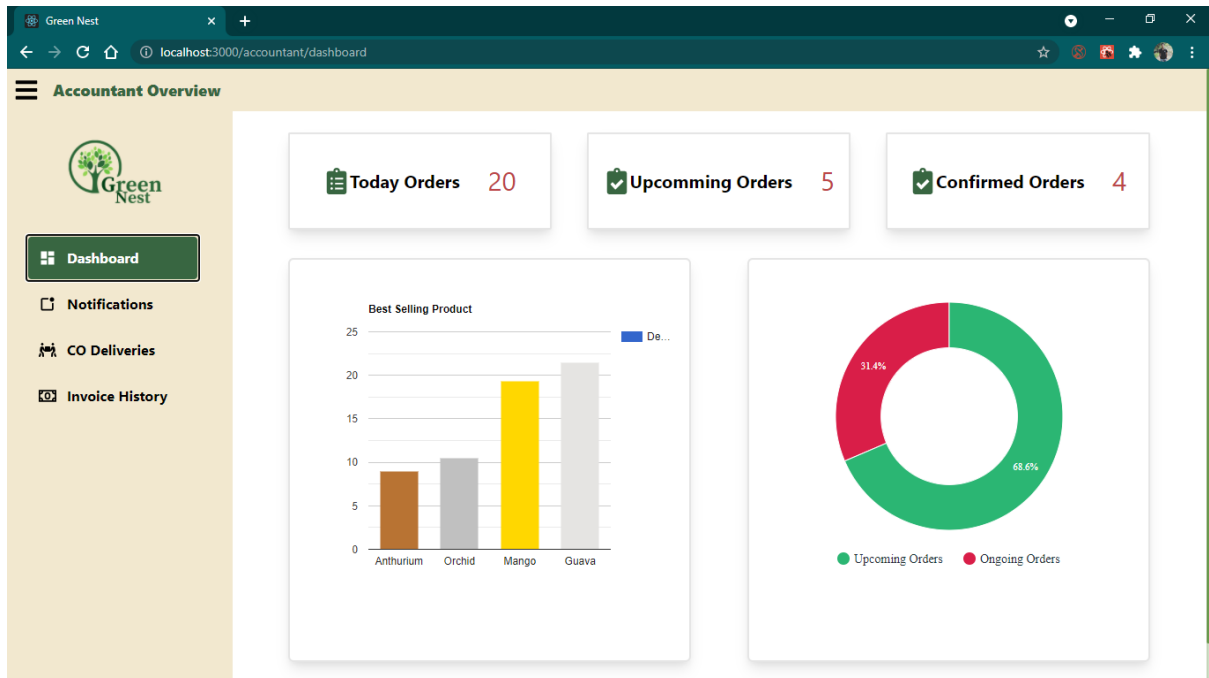
NIC

Email


Mobile

State

## Accountant's UIs



Accountant Overview



Dashboard

Notifications


CO Deliveries

Invoice History

Invoice History

Invoice ID	View More	Delete
INV 1007	+	
INV 1009	+	
INV 1012	+	
INV 1013	+	
INV 1017	+	
INV 1015	+	

Accountant Overview



Dashboard

Notifications


CO Deliveries

Invoice History

Cash On Delivery Details

ORDoice ID	Prduct Quantity	Total Cost (RS)	Date	Edit
ORD 1007	5	1200	2021/05/23	
ORD 1009	2	600	2021/05/30	
ORD 1017	3	680	2021/06/01	
ORD 1025	4	1000	2021/06/06	
ORD 1028	20	8500	2021/06/12	
ORD 1030	15	6820	2021/06/21	
ORD 1037	6	990	2021/06/23	

## Customers' UIs

[Home](#)[Shop](#)[Cart](#)[My Orders](#)[Sign Up](#)

### Create New Account

**First Name**  
eg: Nimal

**Last Name**  
eg: Perera

**Email**  
eg: hiruni123@gmail.com


**Mobile Number**  
eg: Kuliyapitiya

**Password**

**Confirm Password**

☐ I agree the to terms and conditions

[Cancel](#)[Sign Up](#)

[Home](#)[Shop](#)[Cart](#)[My Orders](#)[Sign Up](#)

### Login

**Email**  
email

**Password**  
password

[Forgot Password?](#)





[Sign In](#)


If you don't have an account? [Sign Up](#)

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### Your Orders

Reference ID	Order ID	Order Placed	Items	Total Cost	Order Status	
10001	1100	2021/07/23	4	2000	Deliverd	<a href="#">View more</a>
10001	1101	2021/07/23	4	2000	Deliverd	<a href="#">View more</a>
10001	1102	2021/07/23	4	2000	Pending	<a href="#">View more</a>
10001	1103	2021/07/23	4	2000	Deliverd	<a href="#">View more</a>

	Item	Price	Qty	Subtotal	
<input checked="" type="checkbox"/>	 Mango Tree - TK2003	200 LKR	* 3	= 600 LKR	
<input checked="" type="checkbox"/>	 Mango Tree - TK2003	200 LKR	* 3	= 600 LKR	
<a href="#">Return to Shop</a>					
<b>Total Amount</b> Items cost : 1200 LKR Delivery cost : 200 LKR <b>Total : 1400 LKR</b> <a href="#">Place Order</a>					


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Product Categories

Indoor Plants

Indoor Plants

Outdoor Plants


Outdoor Plants

Outdoor Plants


Outdoor Plants

Outdoor Plants


Outdoor Plants




Cane Plam
1350LKR
12 in Stock
Add to cart



Sensaveria
250LKR
8 in Stock
Add to cart

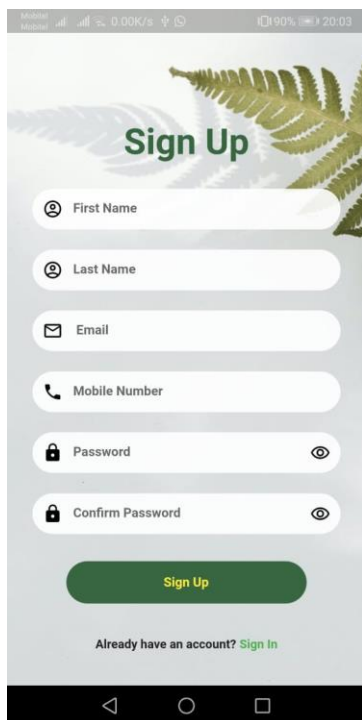


Raphis Plam
1450LKR
5 in Stock
Add to cart



Curry Leaves
350LKR
2 in Stock
Add to cart

## Mobile Application



Sign Up

First Name

Last Name

Email

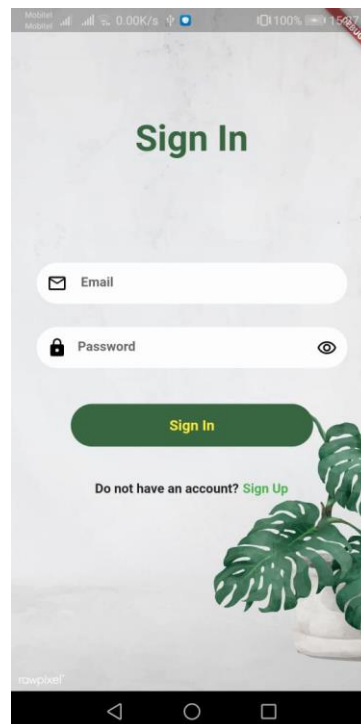
Mobile Number

Password

Confirm Password

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Sign In

Email

Password

Sign In

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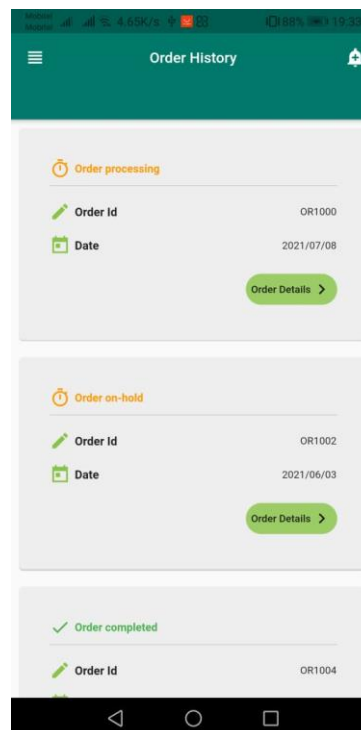
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Best plants and plant products from the one place.

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Order History

**Order processing**

Order Id: OR1000

Date: 2021/07/08

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**Order on-hold**

Order Id: OR1002

Date: 2021/06/03

[Order Details >](#)

**Order completed**

Order Id: OR1004

## 9. Main deliverables of the system

1. Complete working software and source code
2. Complete Software Requirement Specification
3. User manual
4. Administrators manual together with deployment instructions

## 10. The Project Plan

The project is expected to be completed in 15 weeks. But the system will be deployed within 12 or 13 weeks solving the functional requirement. If any cases come, the development team has the time to resolve the problem. We use agile methodology for the system development.

Task Name	Start	End	Duration	Workers	May				June				July				August			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Select Project	2021-05-10	2021-05-17	1	5																
Gathering Requirements	2021-05-17	2021-05-31	2	5																
Feasibility Study	2021-05-13	2021-05-20	1	5																
Create Project Proposal	2021-05-10	2021-05-24	2	5																
Proposal	2021-05-10	2021-05-25	2	5																
Learning Technologies	2021-06-01	2021-08-03	9	5																
System Design (Use Case/ ER/ Class/ Activity Diagrams)	2021-06-01	2021-06-05	2	5																
UI design (For web application)	2021-06-15	2021-07-06	3	5																
UI design (For Mobile application)	2021-06-15	2021-06-29	2	5																
Implementation (User Signup/ Login)	2021-06-22	2021-07-06	2	2																
Testing (User Signup / Login)	2021-07-06	2021-07-13	1	2																
Interim	2021-07-14	2021-07-14	1	5																
Implementation (Stock Module/ Employee Module)	2021-07-14	2021-07-21	1	3																
Testing (Stock Module / Employee Module)	2021-07-21	2021-07-29	1	2																
Implementation (Sales Module)	2021-07-21	2021-07-29	1	3																
Testing (Sales Module)	2021-07-30	2021-08-07	1	2																
Implementation (Payment Module / Finance and Invoice Mod)	2021-07-30	2021-08-07	1	3																
Testing (Payment Module / Finance and Invoice Module)	2021-08-07	2021-08-15	1	2																
System Testing, Bu Fixing, Final Feedback and Reviews	2021-08-07	2021-08-15	1	5																
User Manual	2021-08-15	2021-08-22	1	5																
Deployment and Maintenance	2021-08-22	2021-08-29	1	5																
Final Presentation	2021-08-30			5																
Final Project Report	2021-08-30			5																

## 11. References

### Technology References

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“Agile Methodology”



[https://www.jetbrains.com/youtrack/agile/?gclid=Cj0KCQjw0K-HBhDDARIsAFJ6UGjv2OCDhv2ylm1p3IakubcYRK-ghtdVg-OG2oe8mTgoTDy39907P3saAujhEALw\\_wcB](https://www.jetbrains.com/youtrack/agile/?gclid=Cj0KCQjw0K-HBhDDARIsAFJ6UGjv2OCDhv2ylm1p3IakubcYRK-ghtdVg-OG2oe8mTgoTDy39907P3saAujhEALw_wcB)

## 12. Declaration

The project proposal is a contract between students who will undertake the project and teachers who will supervise and coordinate this course module. Hence, all members of the project team should declare their willingness and readiness to carry out the project in their best within the rules, regulations and code of ethics for this course.

*We as members of the project titled GreenNest, certify that we will carry out this project according to guidelines provided by the coordinators and supervisors of the course as well as we will not incorporate, without acknowledgement, any material previously submitted for a degree or diploma in any university. To the best of our knowledge and belief, the project work will not contain any material previously published or written by another person or ourselves except where due reference is made in the text of appropriate places.*

<i>Name</i>	<i>Signature</i>
(i) L.L.C.L.Perera	
(ii) B.V.S.T.Kumari	
(iii) L.H.P.Amarakoon	
(iv) G.W.P.Dulanjali	
(v) K.A.H.C.Kumarasinghe	