



Sri Lanka Institute of Information Technology

# **Product Items Delivery Management System for Ocado Company**

## **Project Report**

Information Technology Project 2021

Project ID: **ITP2021\_S2\_B01\_G04**

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**15-10-2021**

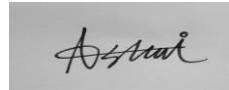
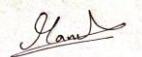
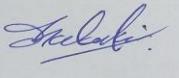
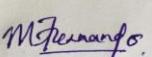
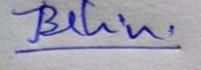
## Declaration

We declare that this project report or part of it was not a copy of a document done by any organization, university any other institute or a previous student project group at SLIIT and was not copied from the Internet or other sources.

### Project Details

Project Title	Product Items Delivery Management System for “Ocado Company”
Project ID	ITP2021_S2_B01_G04

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## **Abstract**

The purpose of this project is to build an integrated management system for the “Product Items Delivery Management System for OCADO company”. Currently, the company is in its initial state. The company want a management system for manage all the stuff with all users and administrators.

Therefore, through this project an integrated management system will be developed to manage both client side and supplier side efficiently with functions such as admin panel management, buyer management, payment and financial management, supply and supplier chain management, delivery management, warehouse management, return and refund management and feedback and ticket system management.

This integrated management system is designed to overcome the difficulties faced by both client and suppliers in purchasing, distributing and keeping records and is developed aiming for better security and user-friendly interface by using MongoDB, Express, React and NodeJS as new technology tools.

## **Acknowledgement**

The group members of ITP2020\_S2\_B01\_G04 are hereby express heartiest gratitude to all who supported, encouraged and guided us to make this project a success. Sincerely acknowledge deep indebtedness to the lecturer in charge of Information Technology project Ms. Geethanjali Wimalaratne, Ms. Archchana Kugathasan and Ms. Tharuka Wishvamali as the instructor who providing guidance, clarifying confusions and pointing out the weaknesses from the very beginning until to archive the goals. Finally, this gratitude is to all of the group members, who gave their maximum potential and valuable time and to all who supported in various ways to make this project a success

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## List of Acronyms and Abbreviations

Abbreviation	Definition
ER	Entity Relationship

# **1. Introduction**

## **1.1 Problem Statement**

Due to this Covid-19 pandemic situation restrictions there are some issues that have to face to receive product items from variety of supplier to the retailer shops through the deliveries. When the system had the manual process, there can be some human errors when storing the data. Another reason is it is not safe to make payments on separate bulk orders for each supplier separately. By developing that Ocado company is an e-commerce business which acts as an intermediate interface between the retailer and suppliers. Following are few problems that the retailer came across when analyzing the requirements.

1. Human errors - When storing the data by keeping the books it can be misplace or can entering wrong details to the record. Because of those calculations might be incorrect and its influents to the whole transactions. There can be some issues with supplier orders too.
2. Security issues - By bookkeeping not only the internal parties but also external parties can be access to stored records and can affect for those ordering details on the payment details. Meanwhile doing the transacting through the manually there is no security.
3. Poor efficiency and performance - As all the work will be done manually, it will consume more time in documenting ordering details and bill calculating. Buying product separately can be affect to deliveries and it can be delay due to some reasons.
4. No backing up of data - Due to the manual method, data cannot be taken as backups. Only keeping the money book and other expenditures, incomes are also record in that book. Once the stored data is loss or damage there is no way to recover those records.

## 1.2 Product Scope

This system is designed for an automated product items delivery company which is in its initial state. Ocado company is an e-commerce business which acts as an intermediate interface between the buyers and suppliers who are dealing with product items such as grocery, fruits and vegetables, fish and meats, baby products and personal care. Buyers ordered products are make as a package and it delivered. In our scenario we take buyer as a shop owner and the suppliers are the manufacturing companies. This system is divided into 8 functions as admin panel management, buyer management, warehouse management, delivery management, supply management, payment and financial management, return and refund management and feedback management.

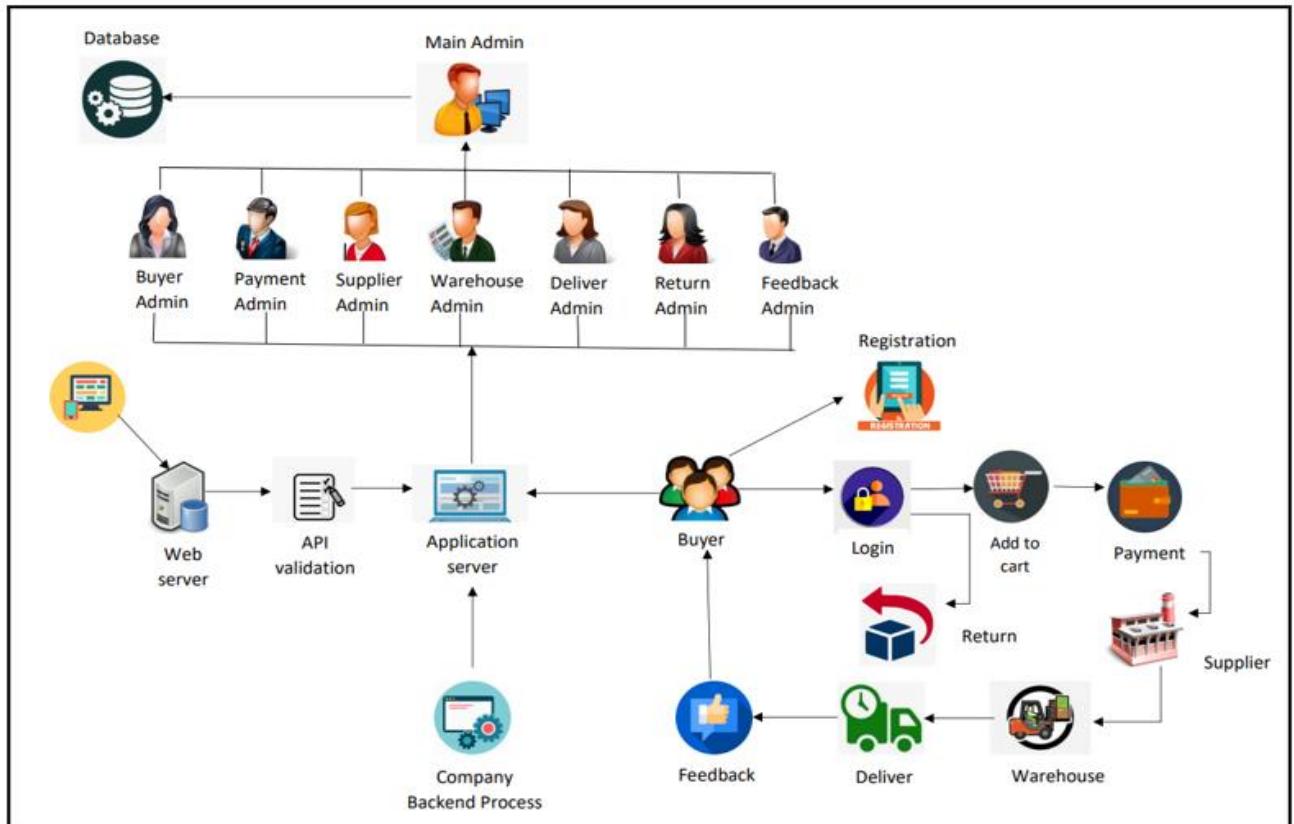


Figure 1.2 – 1 : System Overview

### **1.2.1 Individual Scope**

#### **Supply Management :**

Supply management of the system mainly handle the supplier chain and all the orders from OCADO company to suppliers. Here proposed a supplier management system that can be operated by the administrators. In this system suppliers are the external users. First of all, supplier has to register to the system by themselves or admin can add them to the system. Here supplier have to fill a signup registry form which including supplier name, contact number, email and password. Then supplier can view orders, add their products or update added products and update profile details. When received orders from buyers, administrator have to add them. Also, can update or delete when needed. Furthermore, administrator can view products, add suppliers, update supplier details and delete suppliers if they did not give a proper service. Also, can search any product, order or supplier by given any character or number. Finally monthly report will be generated with summary of orders.

#### **Admin Panel Management :**

In this function administration work is performed by Admin. Through this function Admin can add, erase and update products and categories. If admin wants to add extra quantity to the OCADO stock, he can easily update the quantity of that product. Removing any products or equipment part also can done by easily. Admin can look through any item by their names. Additionally, admin can insert the news and update and delete the news. Admin can generate a report on monthly news report.

#### **Delivery Management :**

Driver and delivery management function mainly handle all the deliveries of the OCADO company. Delivery Admin can log into the system through User ID and password. The driver details table, vehicle details table, delivery details table and driver payment details table are created by the admin. In addition, driver details, vehicle details, delivery details and payment details in the system can be searched by Admin, using specific IDs. When orders are received from buyers, delivery details should be added to the delivery details

table by the Admin. Updating or deleting any data can be done by admin if he needs to. Furthermore, viewing and updating driver details, viewing, and updating vehicle details, and deleting drivers and vehicles can be done by Admin. Daily and monthly reports regarding all the deliveries in the delivery details table can also be created by Admin. OCADO business does not have any vehicles. Instead, drivers who have their own or hired vehicles are recruited. The initial capital requirement can be minimized considerably by that. Drivers who are willing to join with OCADO can register themselves and their vehicles through an online application form. Once a driver gets registered successfully, logging in to the system can be done by entering the email and password. After the driver logs in to the system, he can navigate to the user dashboard, which shows the delivery details table and the payment details table. After customers place orders, each order is assigned to available drivers by Admin, to make the deliveries. Orders assigned to each driver can also be viewed in the delivery details table by themselves. Once a customer receives the package, updating the delivery description as “Done” should be made by the driver. The delivery description should be updated as “Pending” by the driver in the delivery details table if any issue occurs.

### **Feedback Management :**

There are whole CRUD operations in feedback management and support ticket function. Buyers can add feedback on specific product and buyer can view it as well. Admin can read all the feedback also update and delete feedback. Buyers can give satisfaction level as stars when insert feedback.

If any buyer of the system got any issue, buyer can contact OCADO via email, then support agent will assign that issue for admin who can handle that issue, also admin can update the progress of his ticket and update and delete it also. Support admin can add another admin and projects according to other admins functions.

### **Warehouse Management :**

In Warehouse management, there are primarily two functions. Arrivals and departures of items and packages. After logging in, the administrator will be taken to the warehouse dashboard. The two primary functionalities are represented by two buttons on the warehouse dashboard. When an item arrives in the warehouse, the warehouse administrator must enter the information into the system using the new item arrival form. To validate inserted data, the system will perform some validations. If necessary, the administrator can change or remove the records that have been inserted. Employees in the warehouse will assemble the delivery package to the buyer's specifications. The items that have been received will be held in the warehouse until all of the items in the package have been received. When the package is ready to be delivered, the administrator can complete a new package departure form to record the details of the departing package. The system will perform some validations to ensure that the data entered is correct. If necessary, the administrator can update or delete the inserted records. Item arrivals and package departures can be reported by the administrator. In the event of a misplacement complaint, the administrator can use the search function to look up product details using the given Cart ID and Product Code.

### **Buyer Management :**

There are two managements inside the Buyer Management function. One is taken as the buyer details and the other one is taken as the cart handling. When going through the system of buyer details there can be two types of users. It can be either a registered user or an unregistered user. If the user is an already existing user, buyer can directly login into the system easily by entering the credentials. Otherwise, if the user is an unregistered user cannot enter to the system directly. For entering to the system, buyer have to register by filling the signup form with relevant details. After that registration buyer can login into the system as a registered user by giving the correct credentials as email and password. When each user is registered the system will store their details. All of these buyer details are retrieved by the admin. Although, admin can manage all the user records by deleting the buyer records or when admin want to know about relevant buyer, admin can search them under filtering. At the end of the day admin generate a report with all

registered buyer details and user Ids. This report will help to get an evaluation about the progress of the system. Moreover, in cart handling buyer can view the product items in categories. By viewing the product list buyer can get an idea about the product with the details and it will help to choose any product as their wish and add that product into the cart. If buyer wants to add more products into the cart buyer has to view the product list again and add new items to the existing cart. This process continues until the relevant items are added to the cart. After adding all the product to the cart buyer can change the quantity according to their preference or if buyer is unsatisfied with some products which are already included in the cart buyer has the option to delete that relevant product through the cart list. The system calculates the total amount of the cart based on each relevant product quantity and price. Based on that buyer can get an idea about the total amount and go through with the payment process which complete the buyer management function.

### **Payment and Financial Management :**

Payment and Financial Management is the function where the fundamental expenditures were done by the user. As the usual procedure follows, the shipment details interface will be landed straight after the “Add to cart” section. Previously entered shipment details will be shown in the window, which certain shipment details such as address, city, phone number, postal code, and country can be changed respectively. Also, a delete function can be seen. Inaccurate phone numbers and zip codes will be detected by the validation process. After managing shipments, the user will be directed into the bill window, where a detailed report of the shipments and expenses can be downloaded. Furthermore, the user will be given an opportunity to choose between PayPal and ordinary Credit/Debit card payments. A report will be generated for examination. In the card payment portal and PayPal portal, the user will be offered to use their personal verification credentials as inaccurate information can be detected. Card details will be stored in the stripe database with safety and security.

### **Return and Refund Management :**

Refund and return management function mainly consist of 2 parts such as refund amount and product return. Only registered users have access to this return and refund management function. When a buyer needs to return any product that have been delivered to them upon their request, return details form should be filled. Return details include, returning product details, delivery details and user details. These details will be stored in the system. User can edit the entered details if any update or delete need to be done. Once the return request is made, user can log out from the system. Second process is refund management. Admin will look for all received return request of the buyers and then provide refund amount to each return request by using the refund form. Refund forms consist of all user details, request date along with bank details. Once the refund is done, all the refund details will be stored in the system. Apart from that, admin has privileged to update or delete the refund details. Admin can search return and refund records and then filter the relevant record to view. Admin generates a daily report including all the return request and refund records according to the buyer ID.

## **1.3 Project Report Structure**

### **Chapter 1 :**

This chapter will predominantly point out the current state of online enterprise systems and its usual flaws. Also, it will address the suggested project scope.

### **Chapter 2 :**

This chapter consists of project Methodology which includes the Requirement Analysis, System Design, Implementation, and Testing Phase. Requirement Analysis will contain Use Case diagrams and Activity diagrams to characterize the functional and non-functional requirements with a usual information flow. The System Design section will contain ER diagram, Class diagram, and snapshots of client-side interfaces. Implementation section will contain the technological background and resources used in developing the system. Testing phase will consist of information about the procedures taken to detect errors and confirm the functionality.

### **Chapter 3 :**

This chapter will summarize the overall system and discuss challenges faced during the production stage.

### **Chapter 4 :**

This chapter will include the references used in project development.

## 2. Methodology

### 2.1 Requirements and Analysis

No	Name	Function
01	Isurika M.D.A	<p>Supplier Management</p> <ul style="list-style-type: none"><li>• Supplier accounts are created by suppliers registering to the system by using signup registry form</li><li>• A valid user login is done by authenticated user</li><li>• Supplier accounts are managed by both admins and suppliers</li><li>• Suppliers profile details can be updated when needed</li><li>• Supplier profile can be deleted only by admin</li><li>• Products can be added by supplier to the system and can be viewed by admin panel management</li><li>• Supplier orders are added by admins and order status will be updated by the supplier with notifying whether accept or reject</li><li>• Monthly is generated with order summary</li></ul>
02	Epitwatta E.A.E.K	<p>Admin panel management and inventory management</p> <ul style="list-style-type: none"><li>• Admin register to the system</li><li>• Admin login into the system</li><li>• Add new admins using signup page</li><li>• View the Inventory management page</li><li>• Insert the new category</li><li>• Insert the new products</li><li>• Update the products</li><li>• Delete the products</li><li>• Logout from the system</li><li>• Admin view all the entered products</li><li>• Insert news for buyers</li></ul>

		<ul style="list-style-type: none"> <li>• Update and delete the entered news</li> <li>• Generate report based on news details</li> </ul>
03	Kandanaarachchi H.L.D.S	<p>Driver And Delivery Management</p> <ul style="list-style-type: none"> <li>• Driver registers to the system</li> <li>• Driver login to the system</li> <li>• Driver view delivery details, search for specific delivery, update delivery description</li> <li>• Driver view payment details, search for payment.</li> <li>• Admin login to the system</li> <li>• Admin view driver details table, search for specific driver, update driver details, delete driver from the system</li> <li>• Admin view vehicle details table, add new vehicle to the system, search for specific vehicle, update vehicle details, delete vehicle from the system</li> <li>• Admin add delivery details to the system</li> <li>• Admin view delivery details table, update delivery details, delete delivery details from the system</li> <li>• Admin add driver payments to the system, view driver payments table, update payment details, delete payment details from the system</li> <li>• Admin generate report based on delivery details table</li> </ul>
04	Mandalawatta M.T	<p>Feedback function and support ticket</p> <ul style="list-style-type: none"> <li>• Buyers insert feedback</li> <li>• Buyer view feedbacks</li> <li>• Admin view all the feedbacks</li> </ul>

		<ul style="list-style-type: none"> <li>• Update feedbacks</li> <li>• Delete feedbacks</li> <li>• Admin add another admin for ticket</li> <li>• Admin add projects</li> <li>• Admin create ticket and assign admin &amp; projects</li> <li>• Admin view all tickets</li> <li>• Admin update tickets</li> <li>• Admin delete tickets</li> <li>• Generate a daily report about the tickets</li> </ul>
05	Jinadasa U.G.O.C	<p>Warehouse Management</p> <ul style="list-style-type: none"> <li>• Warehouse Admin logs in and will land in Warehouse dashboard</li> <li>• Admin adds new Item arrival details</li> <li>• Admin receives all arrival details</li> <li>• Admin edits an arrival detail</li> <li>• Admin deletes an arrival detail</li> <li>• Admin adds new package departure details</li> <li>• Admin receives all departures details</li> <li>• Admin edits a departure detail</li> <li>• Admin deletes a departure detail</li> <li>• Admin search for a package or product</li> <li>• Generate report about Arrivals / Departures</li> </ul>

06	Fernando W.A.M.A.R	<p><b>Buyer Management</b></p> <ul style="list-style-type: none"> <li>• Buyer registers to the system</li> <li>• Buyer login into the system</li> <li>• View the product list</li> <li>• Choose one specific product</li> <li>• Add product into the cart</li> <li>• Change the quantity in the product item</li> <li>• Delete the product item</li> <li>• Calculate the total amount of the cart list</li> <li>• Logout from the system</li> <li>• Admin view all the buyer records</li> <li>• Admin search specific details</li> <li>• Admin view the particular record</li> <li>• Admin delete buyer details</li> <li>• Generate report based on all the registered customers</li> </ul>
07	Jayawardane W.M.A.V	<p><b>Payment and Financial Management</b></p> <ul style="list-style-type: none"> <li>• Buyer logs in and Add products</li> <li>• Buyer adds new shipment details</li> <li>• Buyer chooses an existing shipment</li> <li>• Buyer edits an existing shipment</li> <li>• Buyer deletes an existing shipment</li> <li>• Buyer pays with PayPal</li> <li>• Buyer pays with credit/debit card</li> <li>• Buyer updated credit/debit card details</li> <li>• View shipment details</li> </ul>

		<ul style="list-style-type: none"> <li>• View credit/debit details in stripe dashboard</li> <li>• Generate report/bill</li> </ul>
08	Amarasinghe B.P.A	<p>Return and refund management</p> <ul style="list-style-type: none"> <li>• Buyer log into the system</li> <li>• Add new product return request details</li> <li>• View all return requests</li> <li>• Update request details</li> <li>• Delete request details</li> <li>• Admin view all the return request records</li> <li>• Admin search specific request detail</li> <li>• Admin provide refund amount</li> <li>• Admin update refund details</li> <li>• Admin delete refund details</li> <li>• Admin view all refunded records</li> <li>• Admin search specific refund records</li> <li>• Generate reports on return and refund details</li> </ul>

*Table 2.1 – 1 : Requirements and Analysis*

### **2.1.1 Non-Functional Requirements**

#### **1. Quality Control**

- The accountability when it comes to managing user data through systems is highly admirable and the responsibility is assured.
- The web application itself is user-friendly and anyone with a minimal technological literacy can understand the basic functions.
- The web application is available 24\*7 for all the users.
- All the functions are working perfectly without any hiccups.
- Multiple users can access the web application at the same time frame.

#### **2. Security**

- Unregistered users must go through an authenticated registration phase for security.
- Registered users can sign in using their entered credentials without any major security breach.
- Administrator panel is highly trained and reliable about user information.

#### **3. Performance**

- The Application itself is platform independent and open source.
- The Application will not put any machine in jeopardy.

#### **4. Safety**

- Data redundancy will not occur as every user has a unique identification.
- The system will observe whether there are redundant passwords and usernames.
- The users' payment and card information are in safe hands and fully encrypted.

## 5. Efficiency

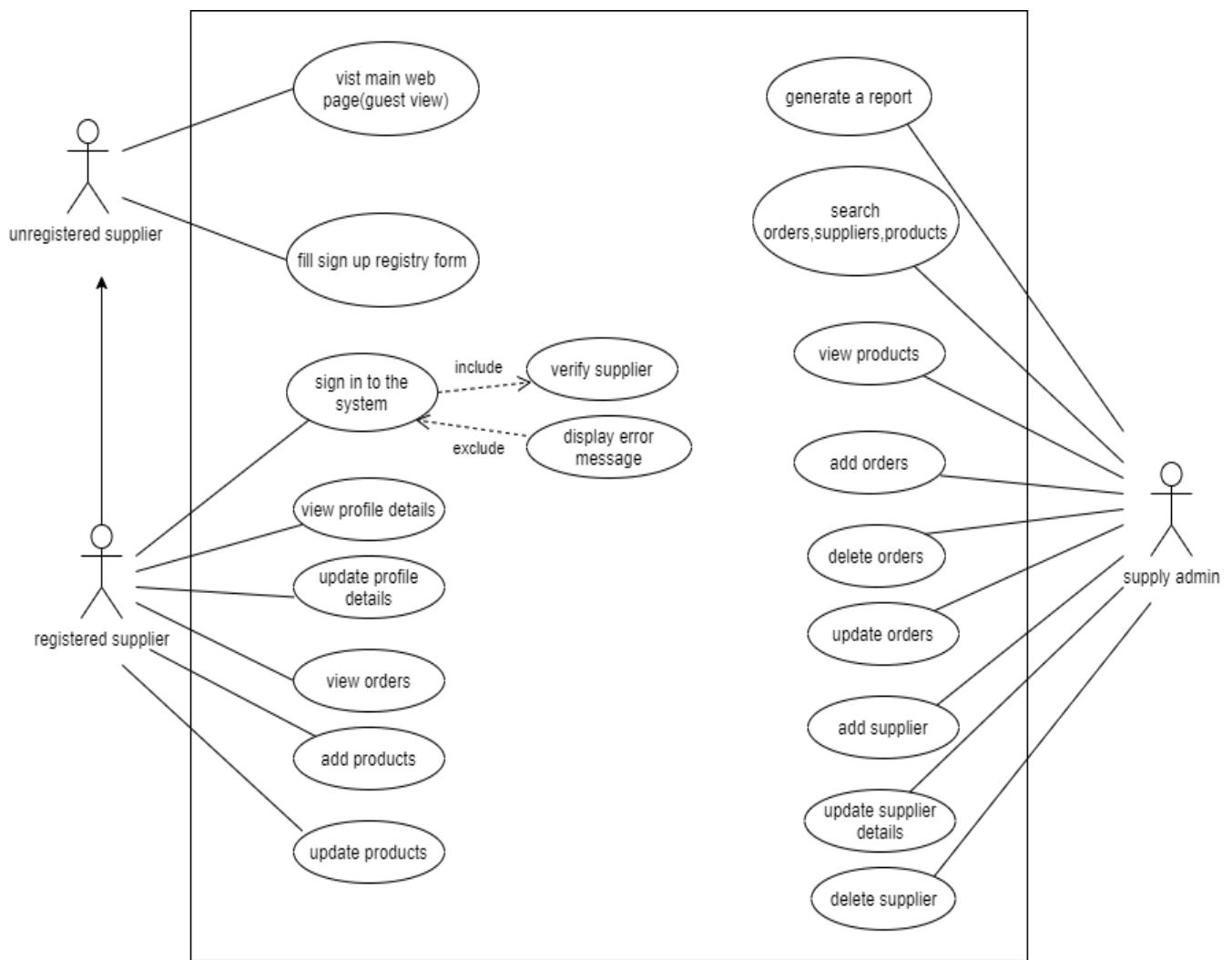
- Bugs and errors will not appear as the system was under several testing phases.
- Depending on the internet service provider, the system will not breakdown in between payment sessions.

## 6. Time Saver

- The response time and processing time of each interface is minimal.
- This application will not let users stay in queues as its time saving at its core.

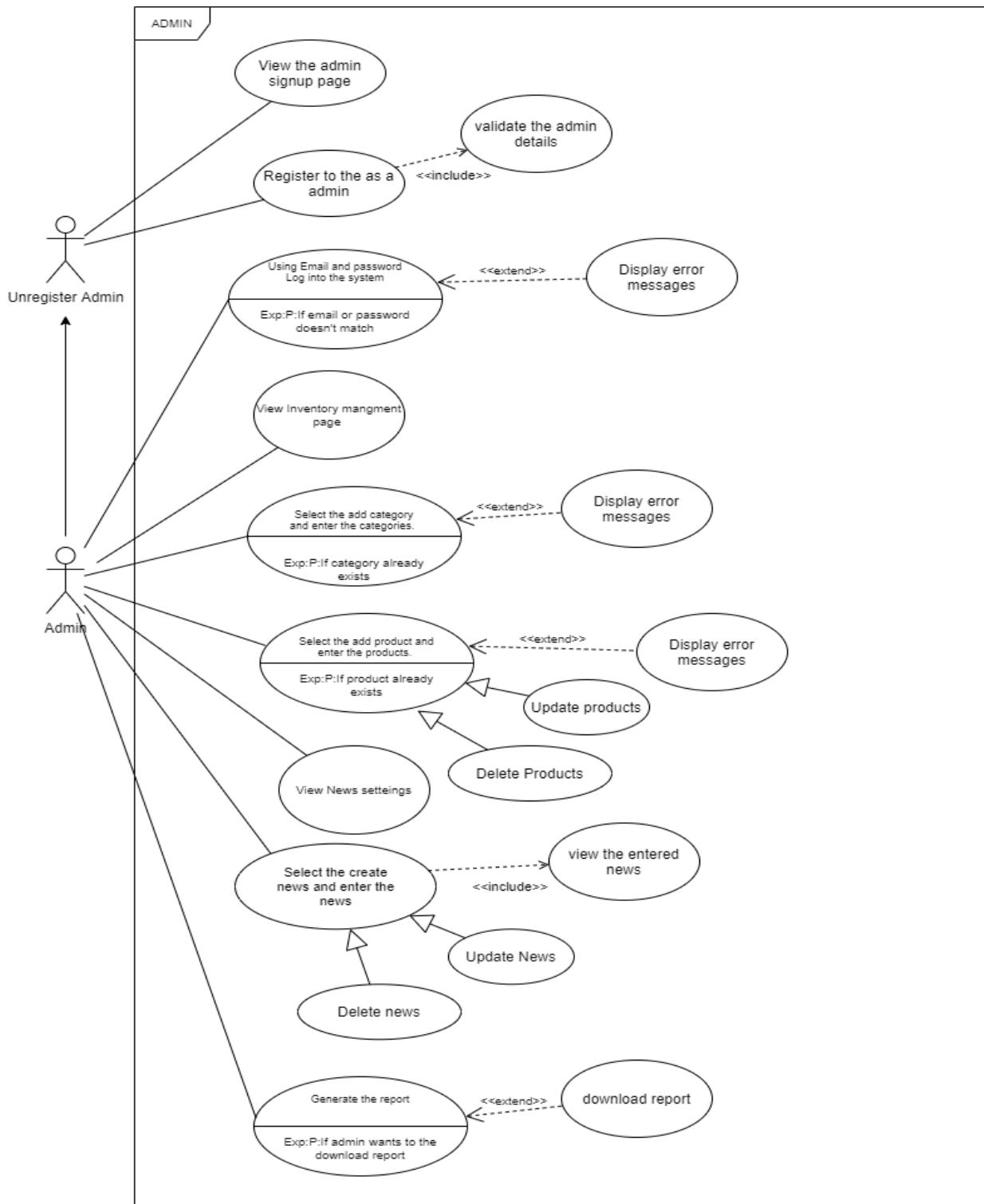
## 2.1.2 Use Case Diagrams

### Supply Management



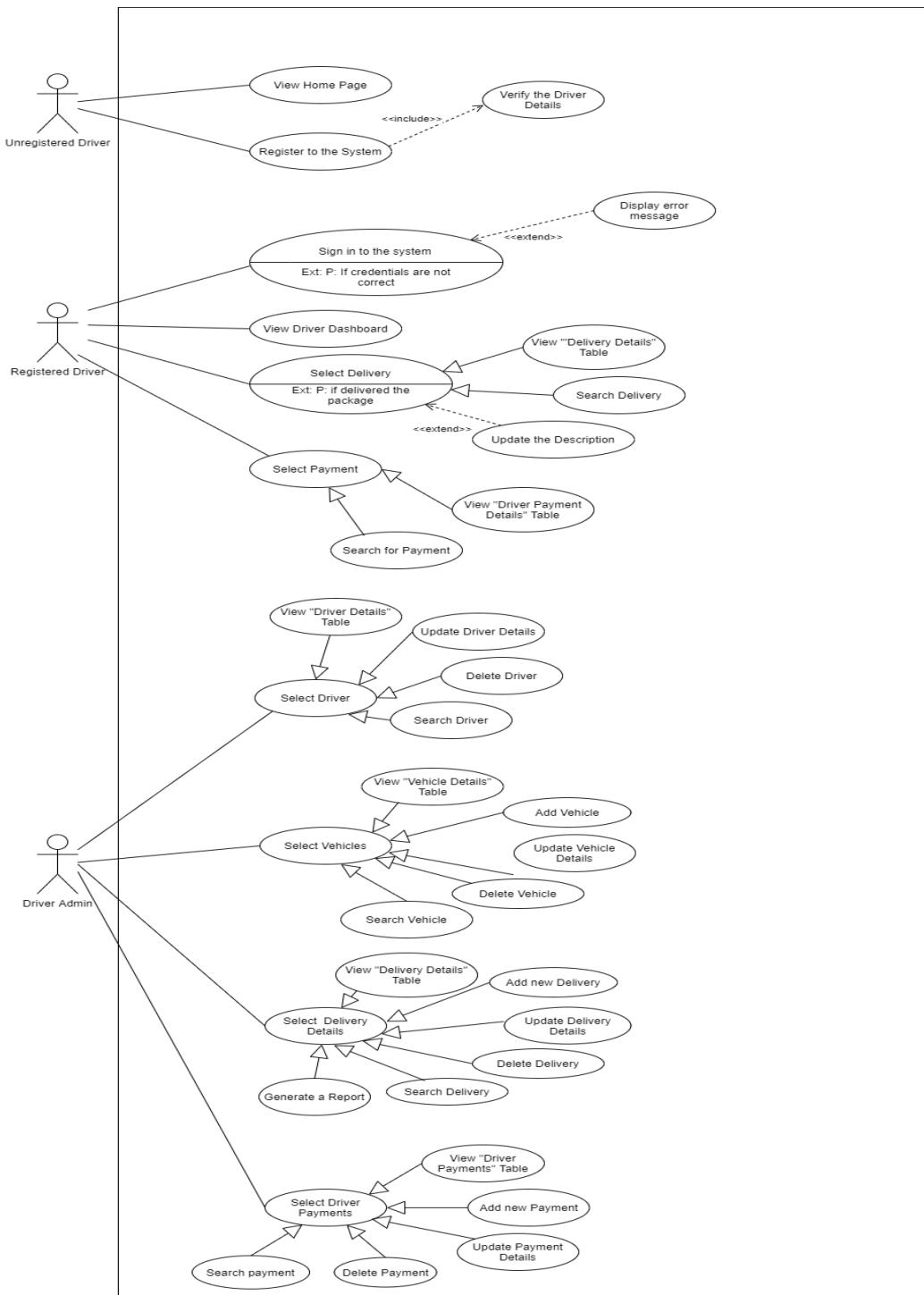
Figurer 2.1.2 – 1 : Use Case Diagram - Supply Management

## Admin Panel Management



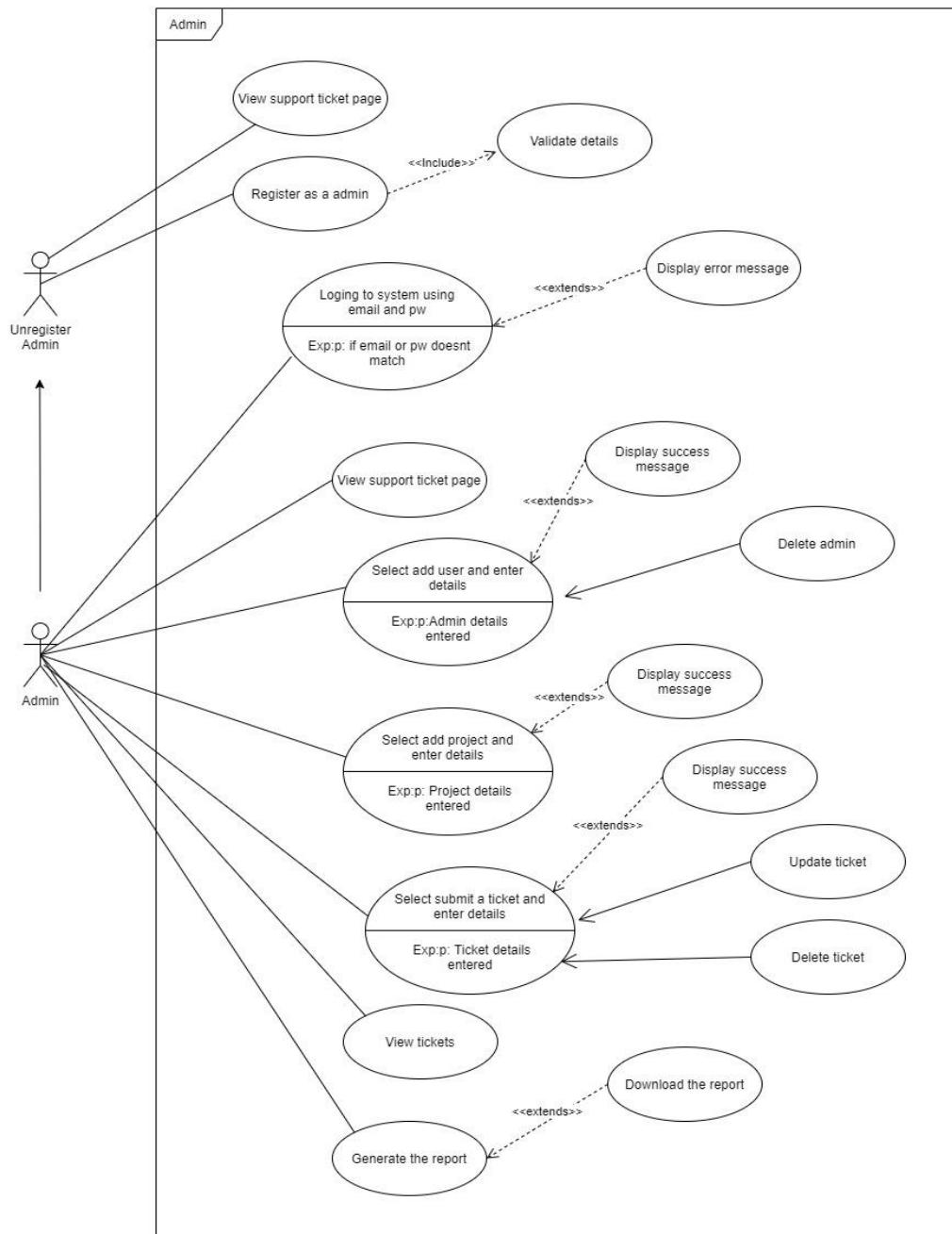
Figurer 2.1.2 – 2 : Use Case Diagram – Admin Panel Management

## Delivery Management



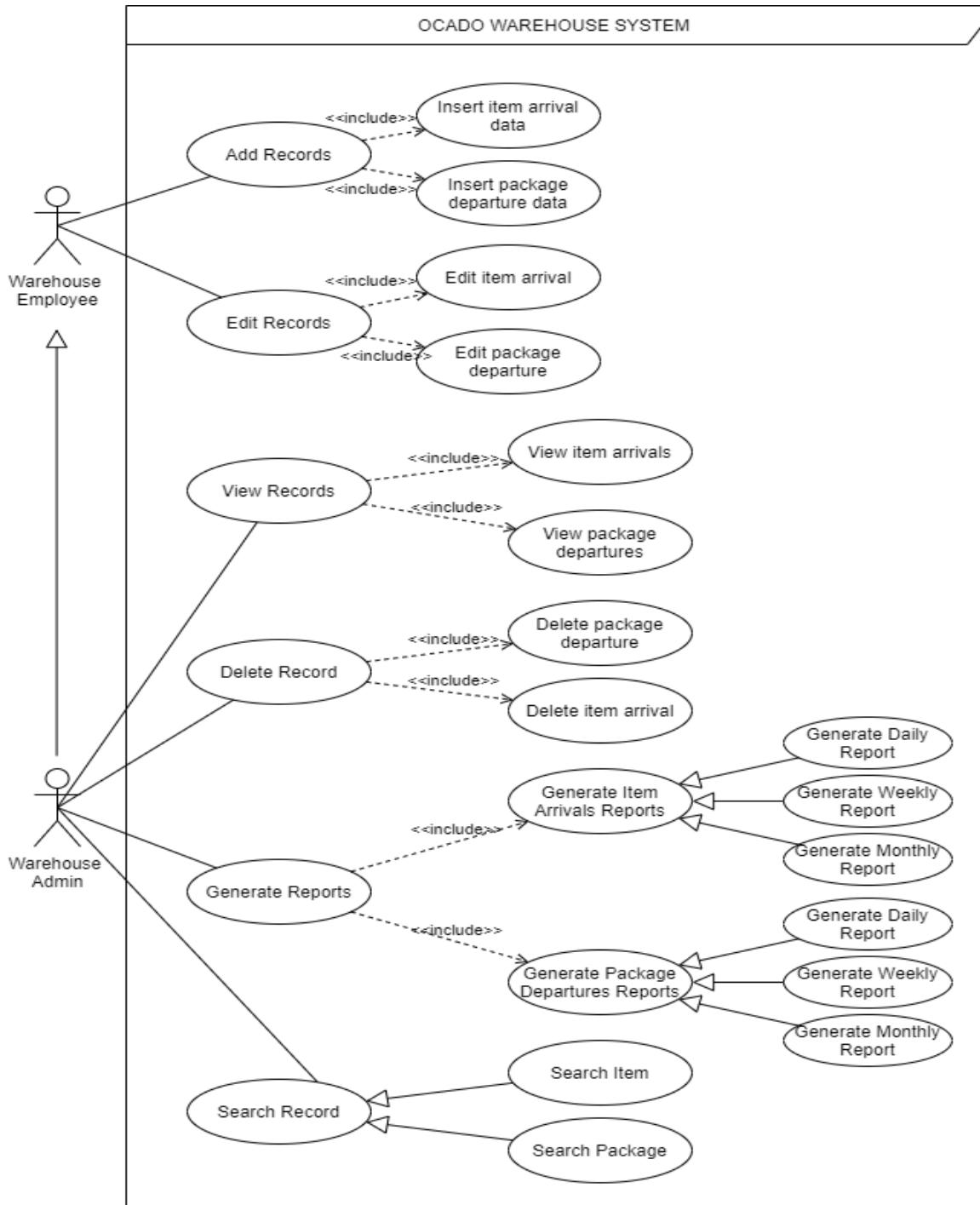
Figurer 2.1.2 – 3 : Use Case Diagram – Delivery Management

## Feedback Management



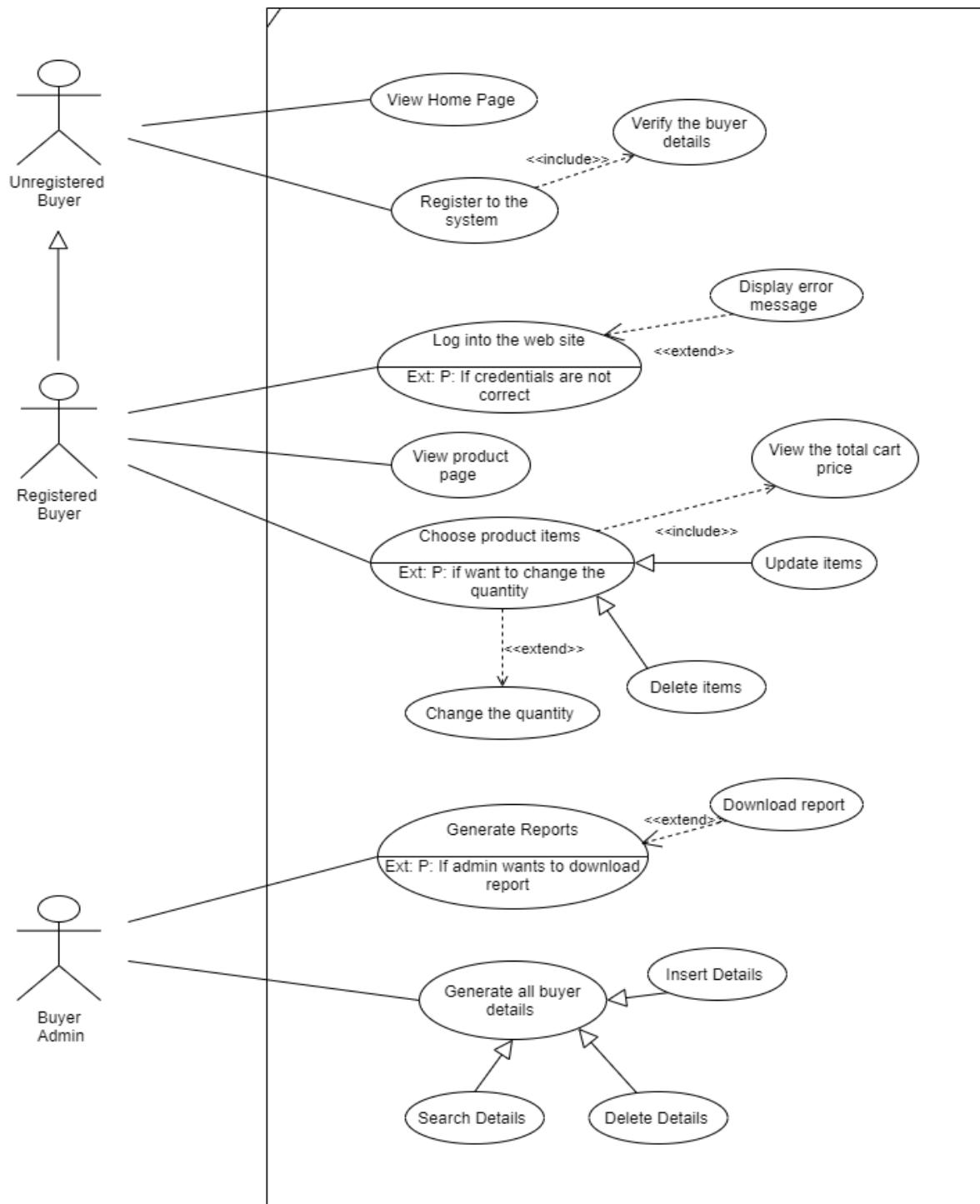
Figurer 2.1.2 – 4 : Use Case Diagram – Feedback Management

## Warehouse Management



Figurer 2.1.2 – 5 : Use Case Diagram – Warehouse Management

## Buyer Management



Figurer 2.1.2 – 6 : Use Case Diagram –Buyer Management

## Payment and Financial Management

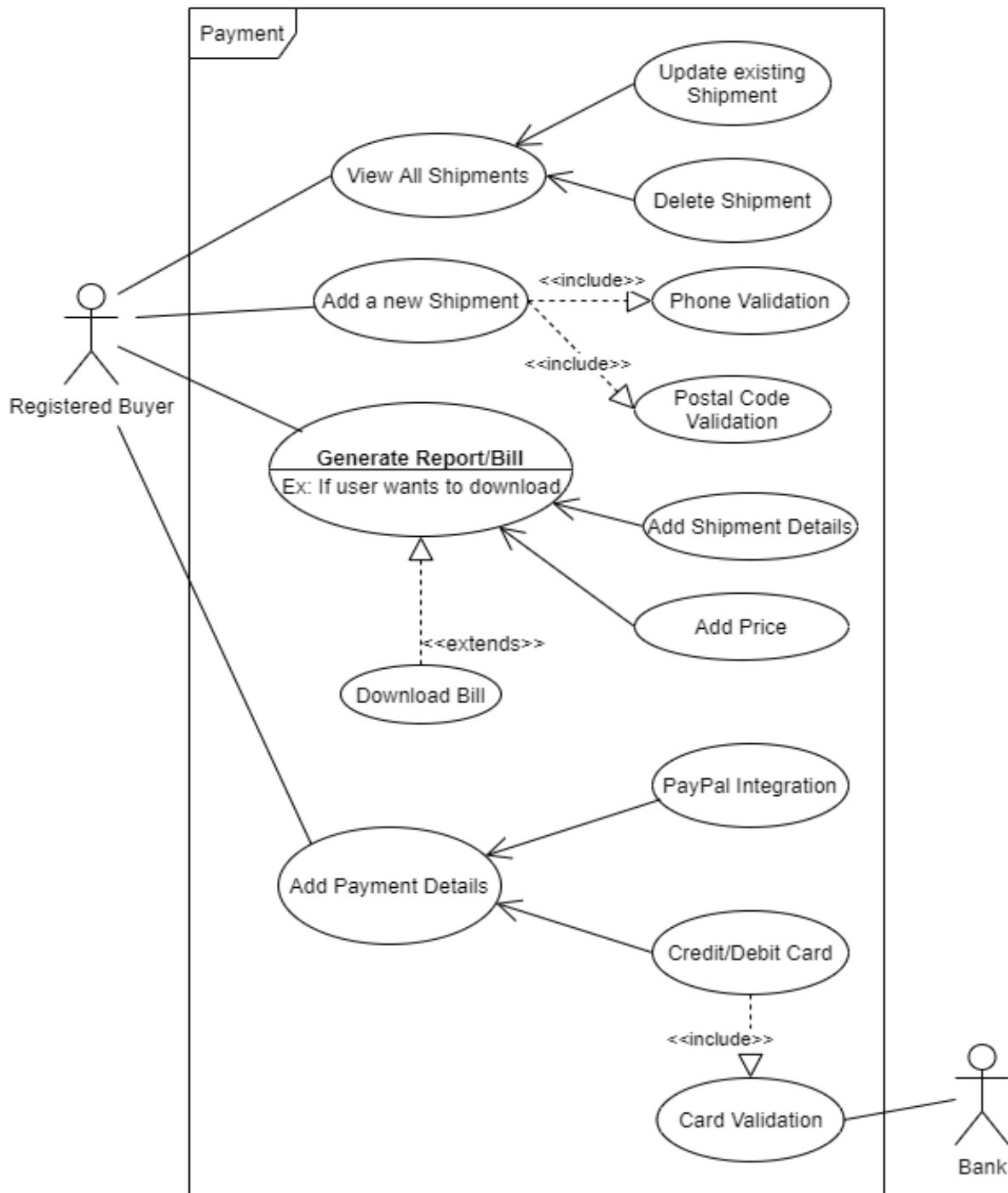


Figure 2.1.2 – 7 : Use Case Diagram – Payment Management

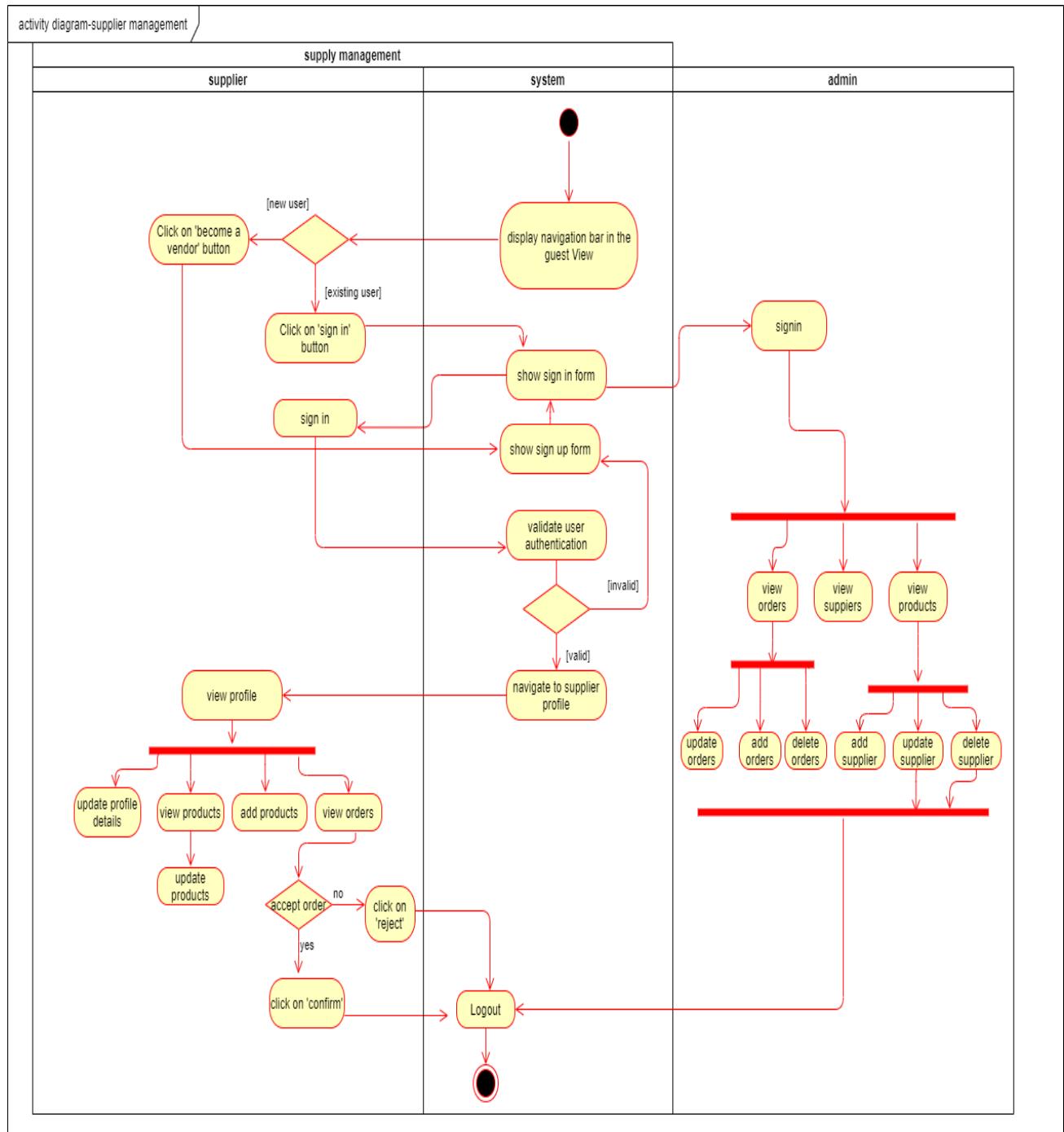
## Return and Refund Management



Figurer 2.1.2 – 8 : Use Case Diagram – Return Management

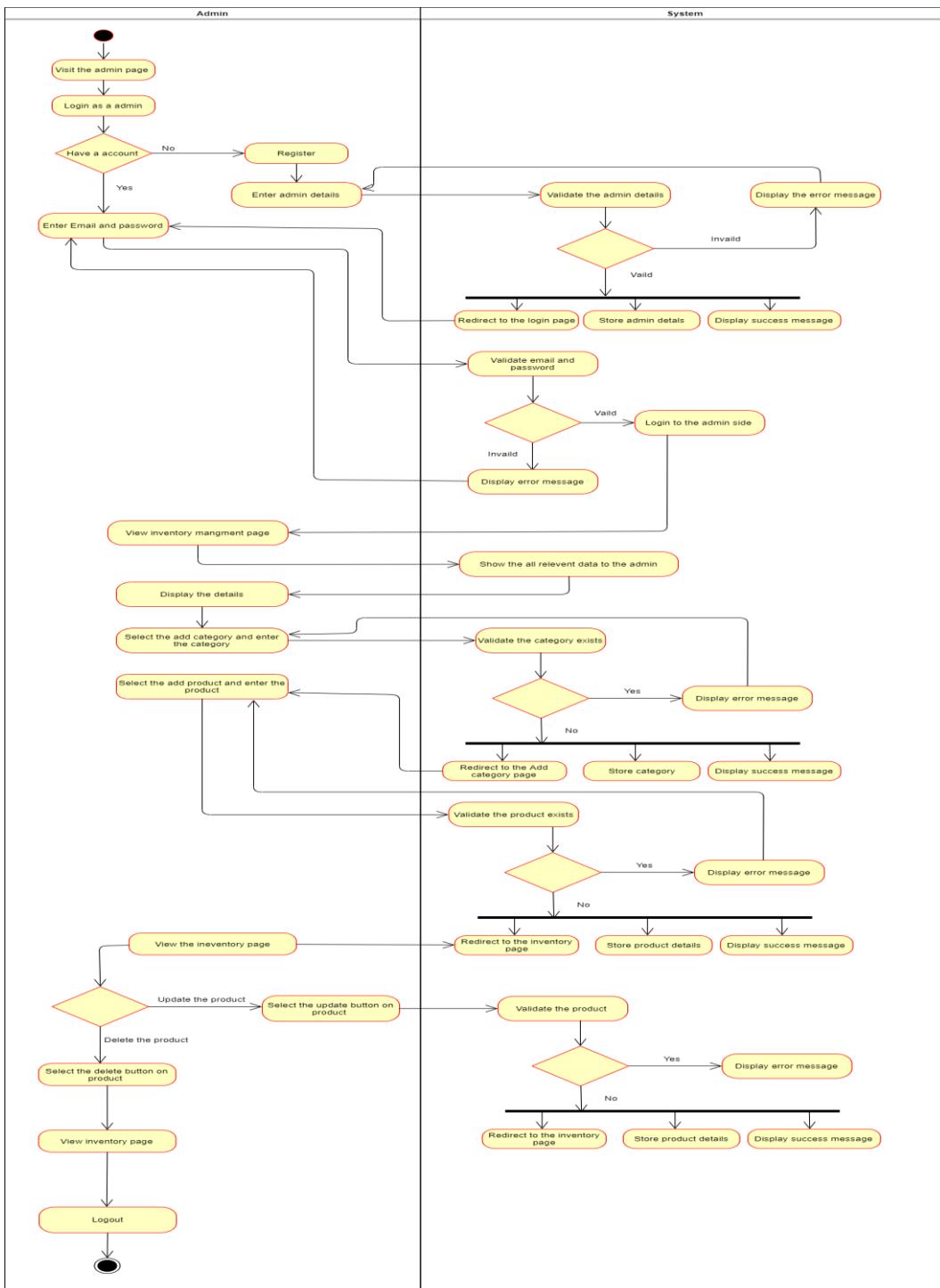
### 2.1.3 Activity Diagrams

#### Supply Management



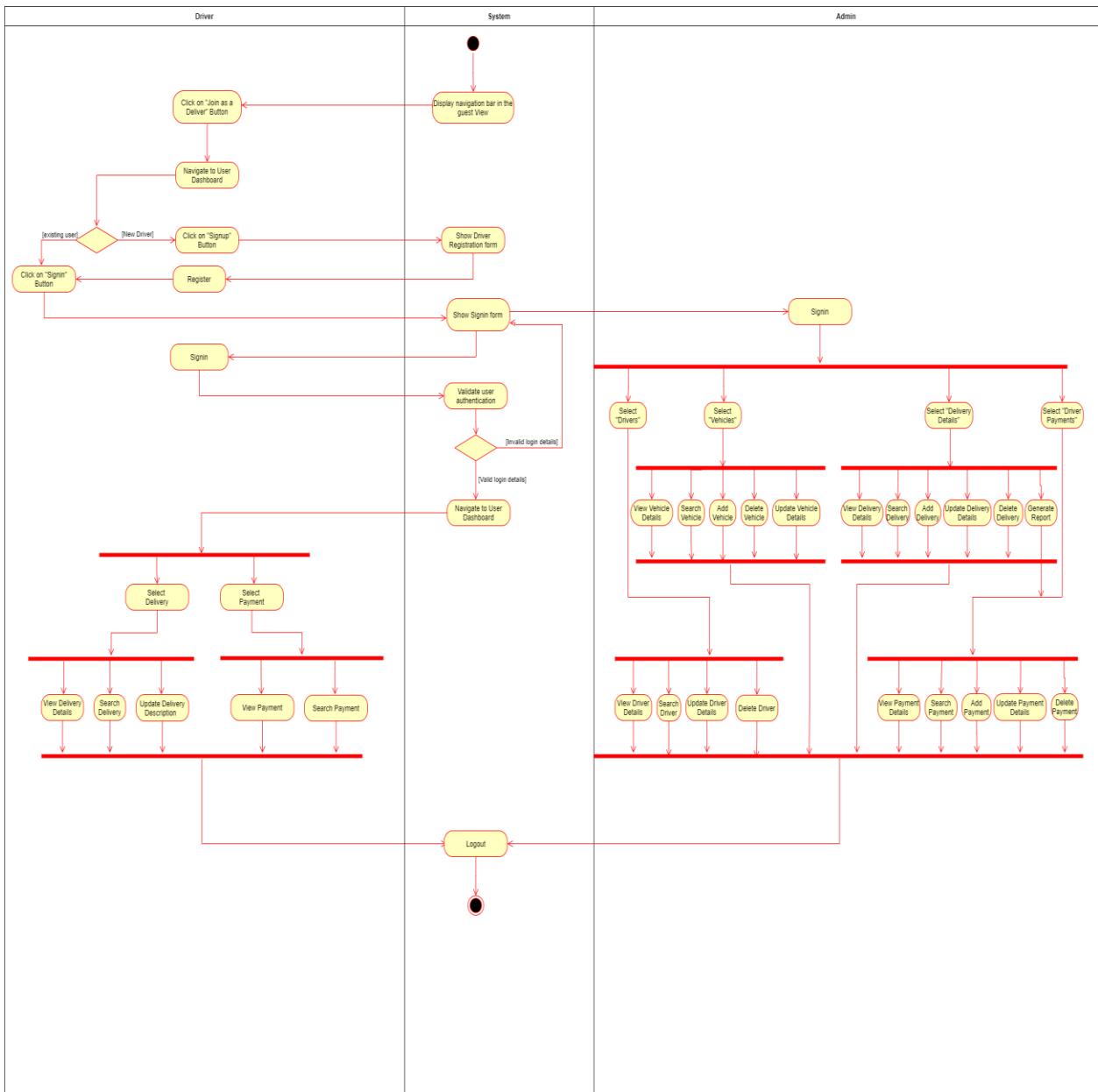
Figurer 2.1.3 – 1 : Activity Diagram - Supply Management

## Admin Panel Management



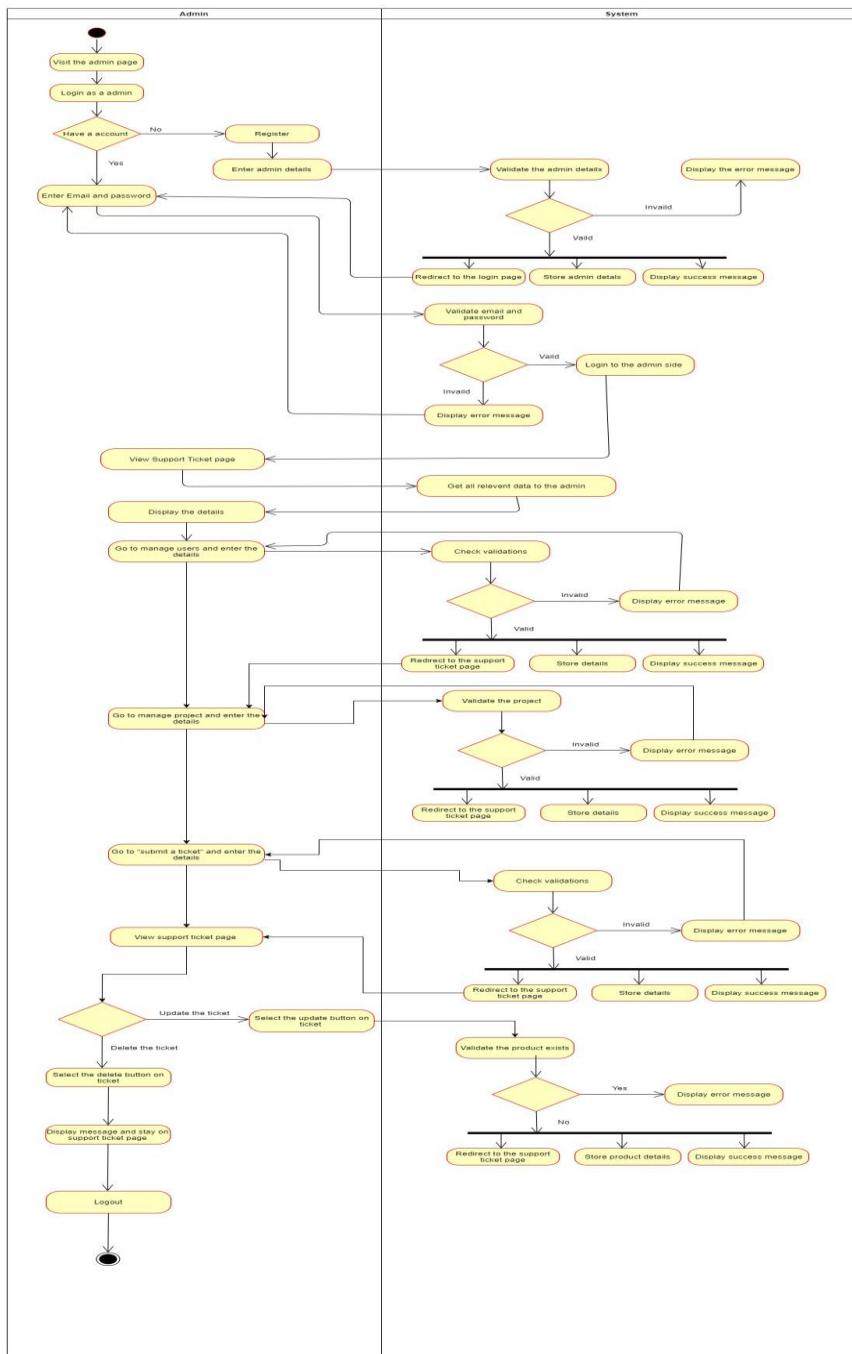
Figurer 2.1.3 – 2 : Activity Diagram – Admin Panel Management

## Delivery Management



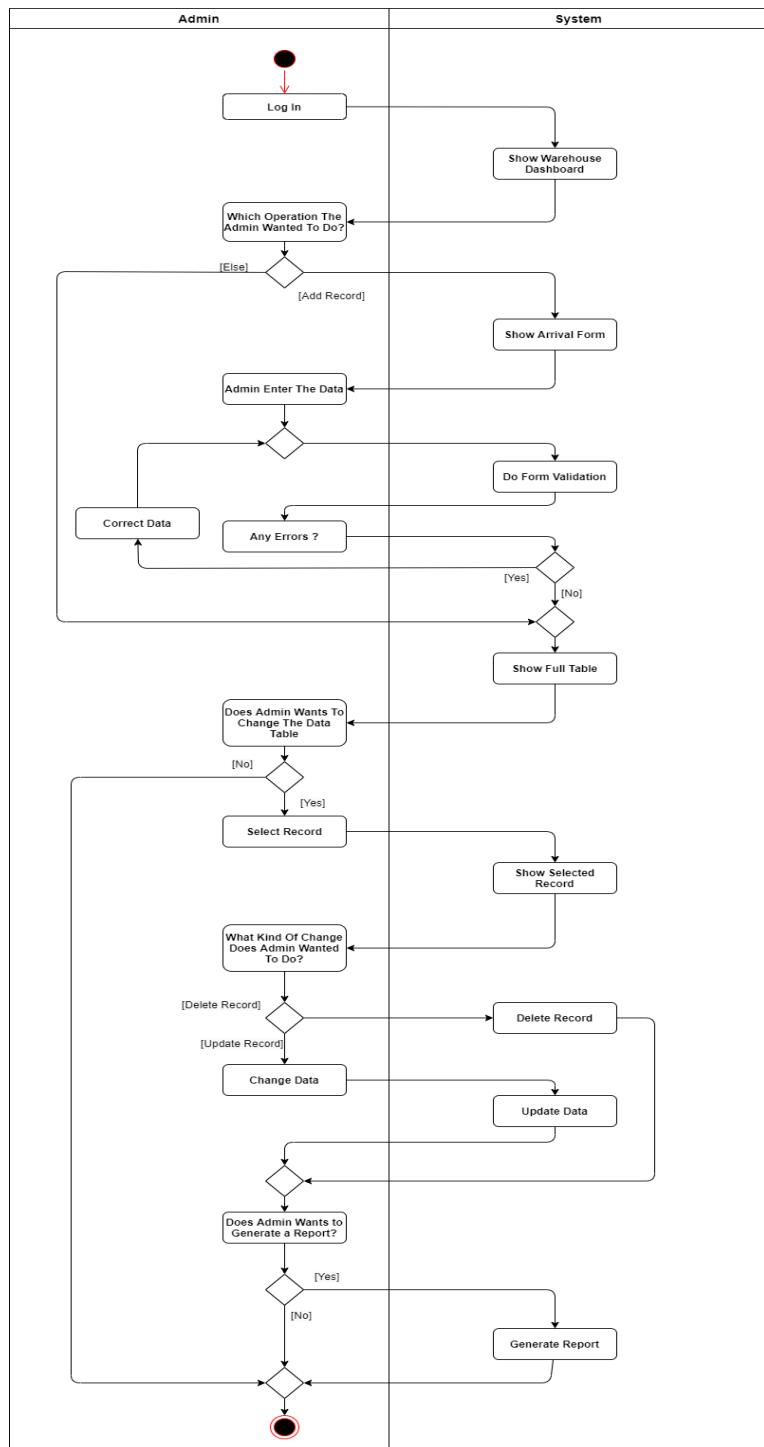
Figurer 2.1.3 – 3 : Activity Diagram - Delivery Management

## Feedback Management



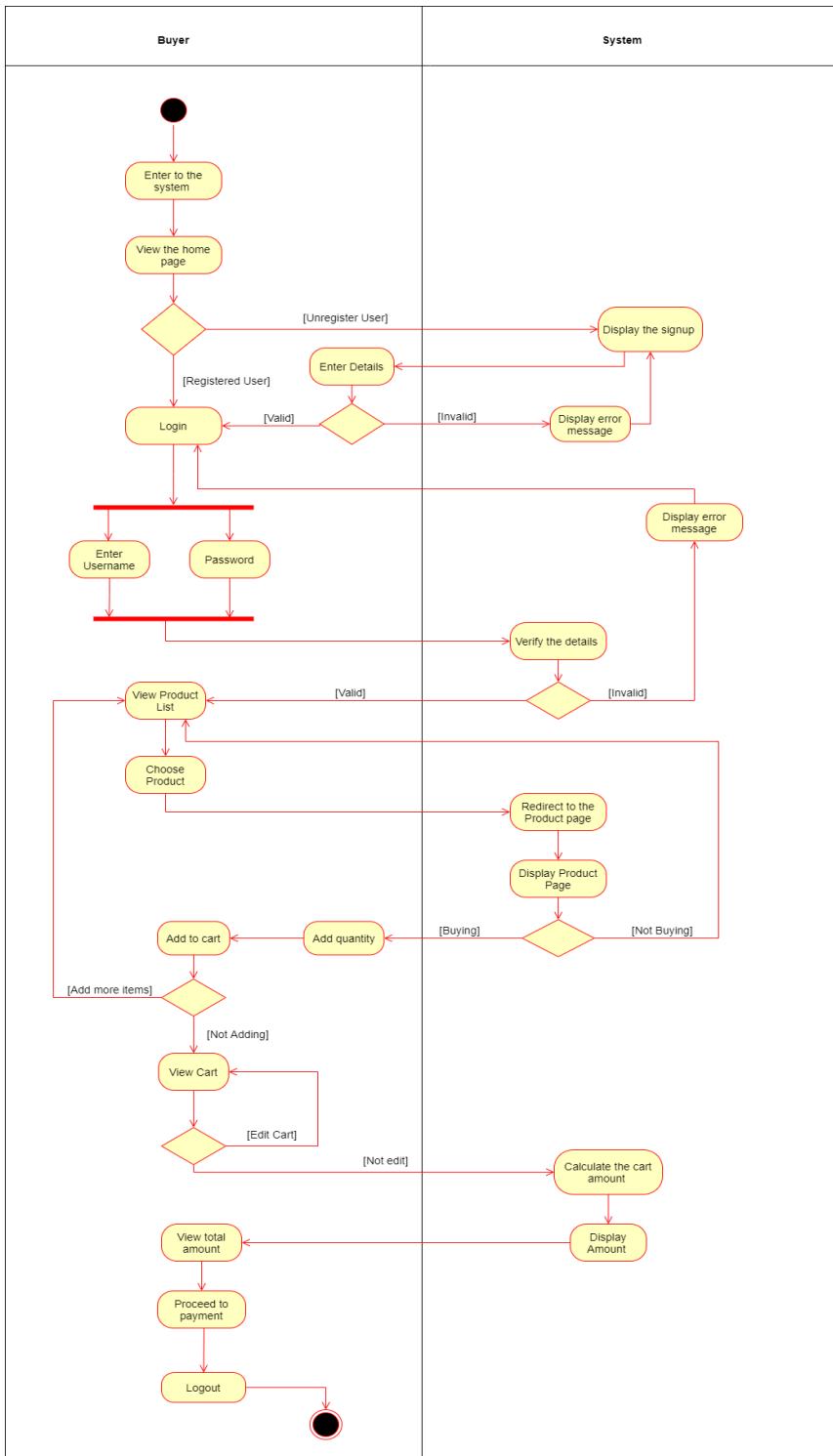
Figurer 2.1.3 – 4 : Activity Diagram – Feedback Management

## Warehouse Management



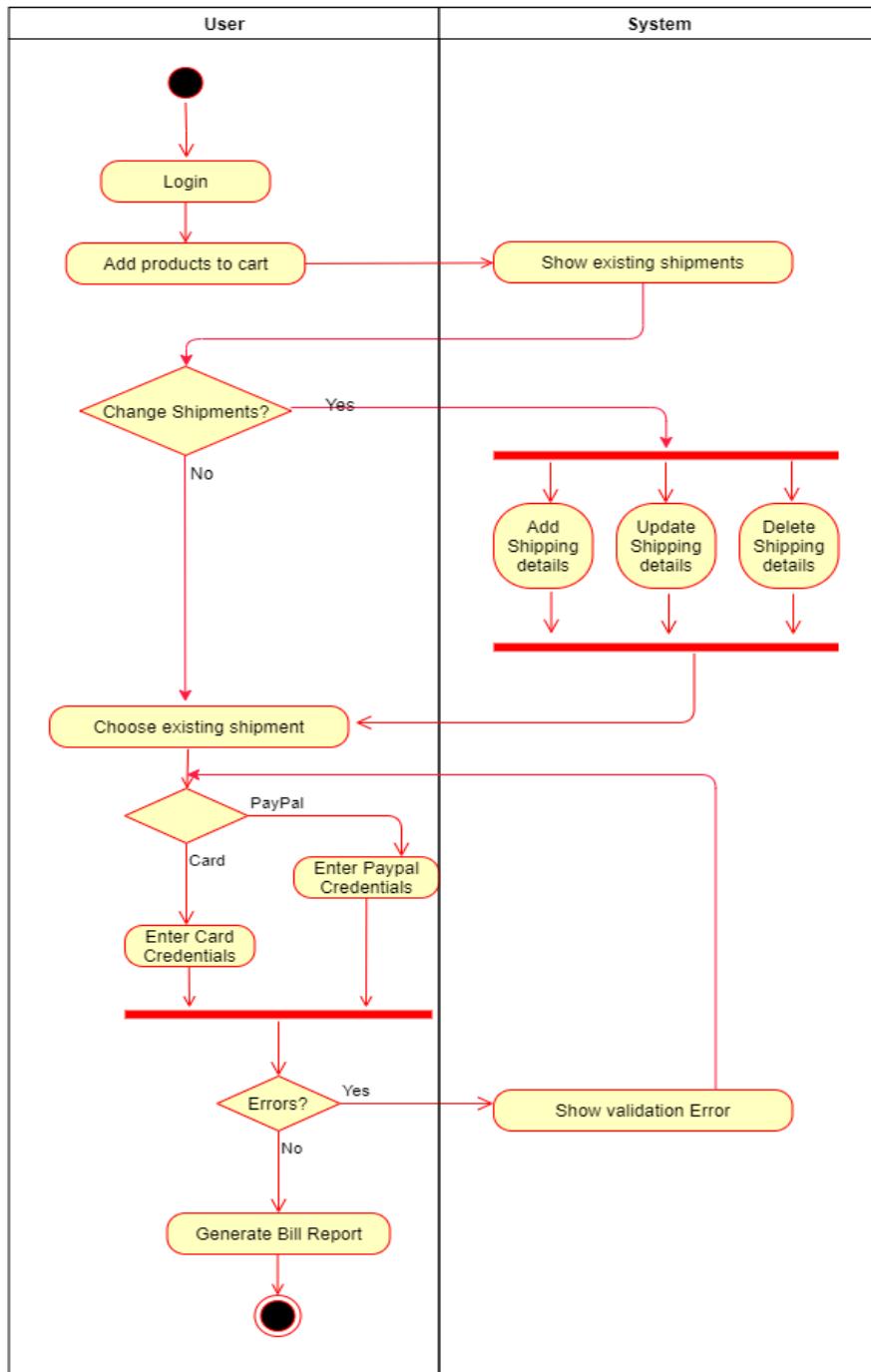
Figurer 2.1.3 – 5 : Activity Diagram - Warehouse Management

## Buyer Management



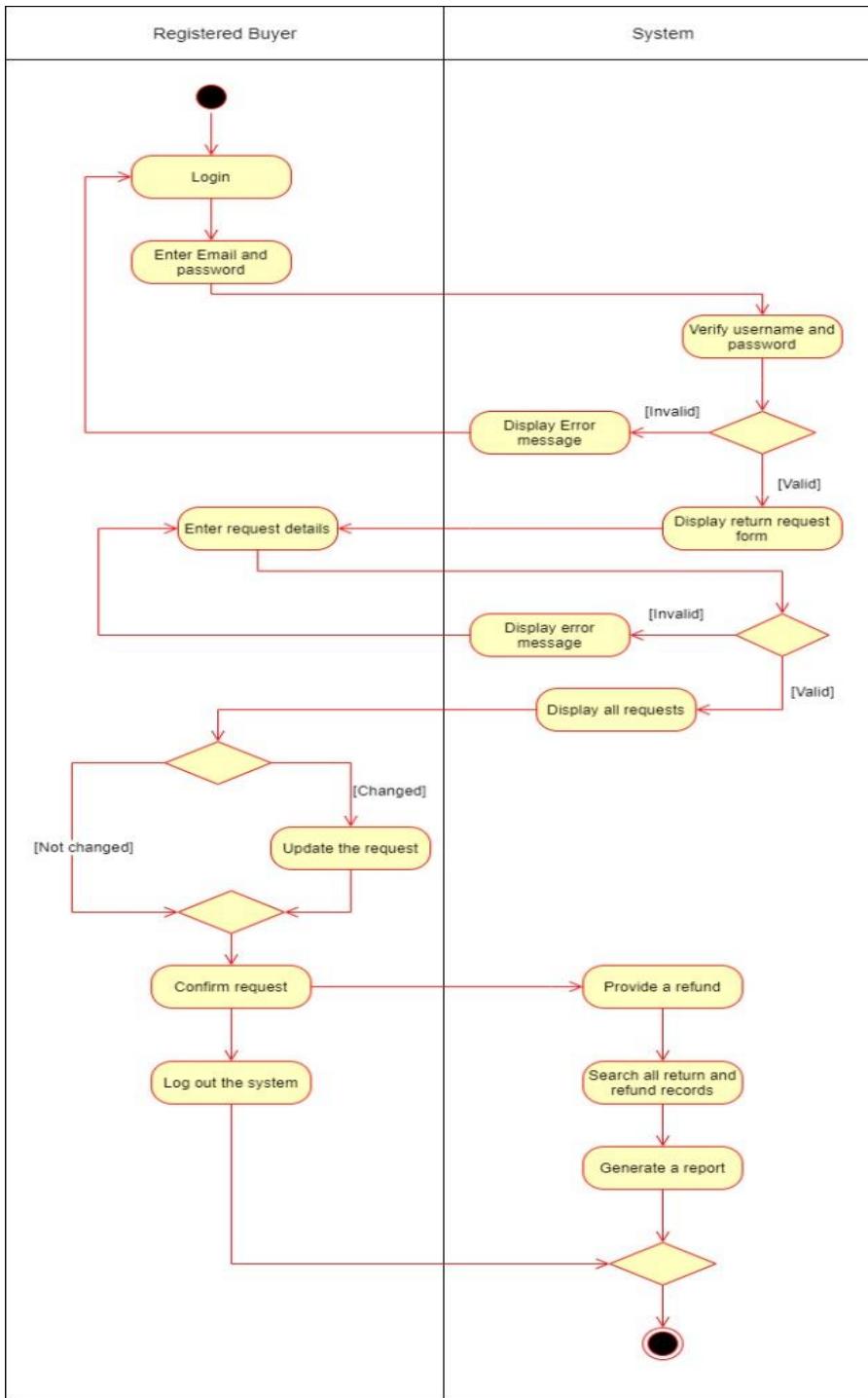
Figurer 2.1.3 – 6 : Activity Diagram - Buyer Management

## Payment and Financial Management



Figurer 2.1.3 – 7 : Activity Diagram - Payment Management

## Return and Refund Management



Figurer 2.1.3 – 8 : Activity Diagram - Return Management

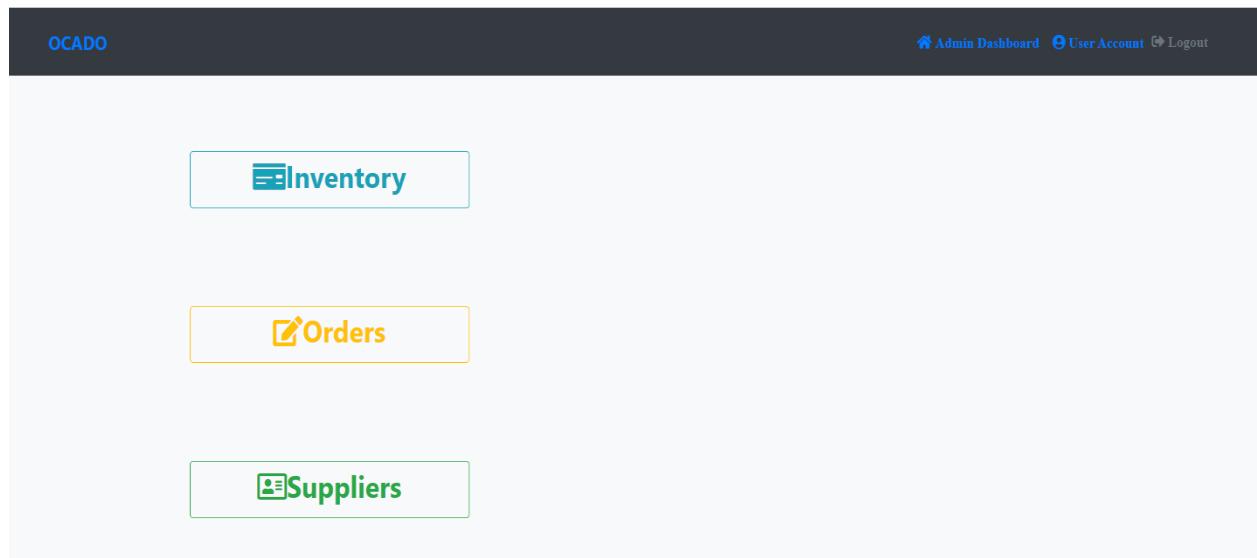
## **2.2 Design**

The Design section includes graphical and visual representation of the entire system. With ER and Class diagrams, the client will have a general idea on how the overall system is expecting to function. The actual snapshots of the suggested system will enhance the client into a positive reception.

1. High level Architecture Diagram
2. ER Diagram
3. Class Diagram

## 2.2.1 User Interfaces

### Supply Management



Figurer 2.2.1 – 1.0 : User Interface - Supplier Management

The screenshot shows the OCADO Admin Dashboard. At the top, there is a dark header bar with the OCADO logo on the left and navigation links on the right: Admin Dashboard, User Account, and Logout. Below the header, there is a search bar with a magnifying glass icon and the placeholder text "Search for orders...".

Index	Item Code	Product Name	Sale Price	Supplier ID
1	6163d617714d542908032fc1	pepsi	LKR.85	6163c90f6a9f3305a834a74a
2	6163d636714d542908032fc3	popcorn	LKR.100	6163c90f6a9f3305a834a74a
3	6163d8a3c6516c156893cf34	chocolate biscuit	LKR.60	6163c90f6a9f3305a834a74a
4	6163dc33c6516c156893cf4a	Milk Powder	LKR.560	6163c90f6a9f3305a834a74a
5	6163dfb3c6516c156893cf7a	Kandos	LKR.165	6163c90f6a9f3305a834a74a
6	6163f07cf215652c04f633dc	popcorn	65	6163c90f6a9f3305a834a74a
7	6163f286f215652c04f6340d	pepsi	50	6163f25df215652c04f63408

Below the table, there is a footer bar with the OCADO logo, a search bar placeholder "Enter Sri Lanka's freshest online", navigation links for PRODUCTS (Trending), LEGALS (Licences), and CONTACTS (Ward Place, etc.).

Figurer 2.2.1 – 1.1 : User Interface - Supplier Management

OCADO Admin Dashboard User Account Logout

Search for orders...

+Add Order

Index	order ID	total Price	order Date	order Status	amount	item Code	Supplier ID	bill ID	Update	Delete
1	6163dc7c6516c156893cf56	Rs.65 000	29.09.2021	pending	250pcs	3698	61611a1e95876c23c4e7e304	BN786		
2	6163e03fc6516c156893cf86	Rs.30 0000	30.09.2021	recieved	250pcs	3698	6163c90f6a9f3305a834a74a	yt450		
3	6163eac2f215652c04f633d2	Rs.50 000	12.05.2022	pending	250pcs	3698	6163c90f6a9f3305a834a74a	QW789		
4	6163f0cdf215652c04f633e4	Rs.100 0000	30.09.2021	recieved	100pcs	3698	61611a1e95876c23c4e7e304	BN786		
5	6163f2c7f215652c04f63414	Rs.200 0000	12.05.2022	pending	100pcs	3698	6163c90f6a9f3305a834a74a	BN786		

Generate Report

OCADO Enter Sri Lanka's freshest online

PRODUCTS Trending

LEGALS Licences

CONTACTS Ward Place,

Figurer 2.2.1 – 1.2 : User Interface - Supplier Management

OCADO Admin Dashboard User Account Logout

+Add Supplier

ADD SUPPLIER

Supplier Name

Contact Number

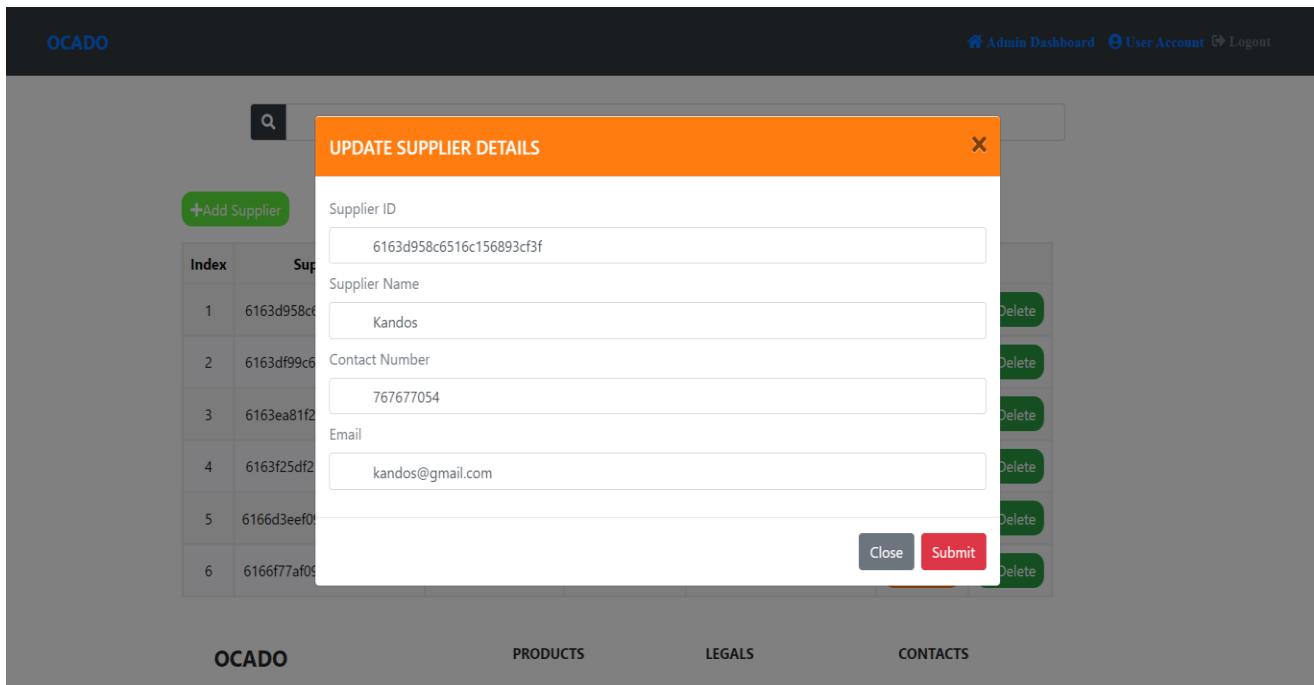
Email

Close Submit

Index	Sup
1	6163d958cd
2	6163df99c6
3	6163ea81f2
4	6163f25df2
5	6166d3eeff0
6	6166f77af0

OCADO PRODUCTS LEGALS CONTACTS

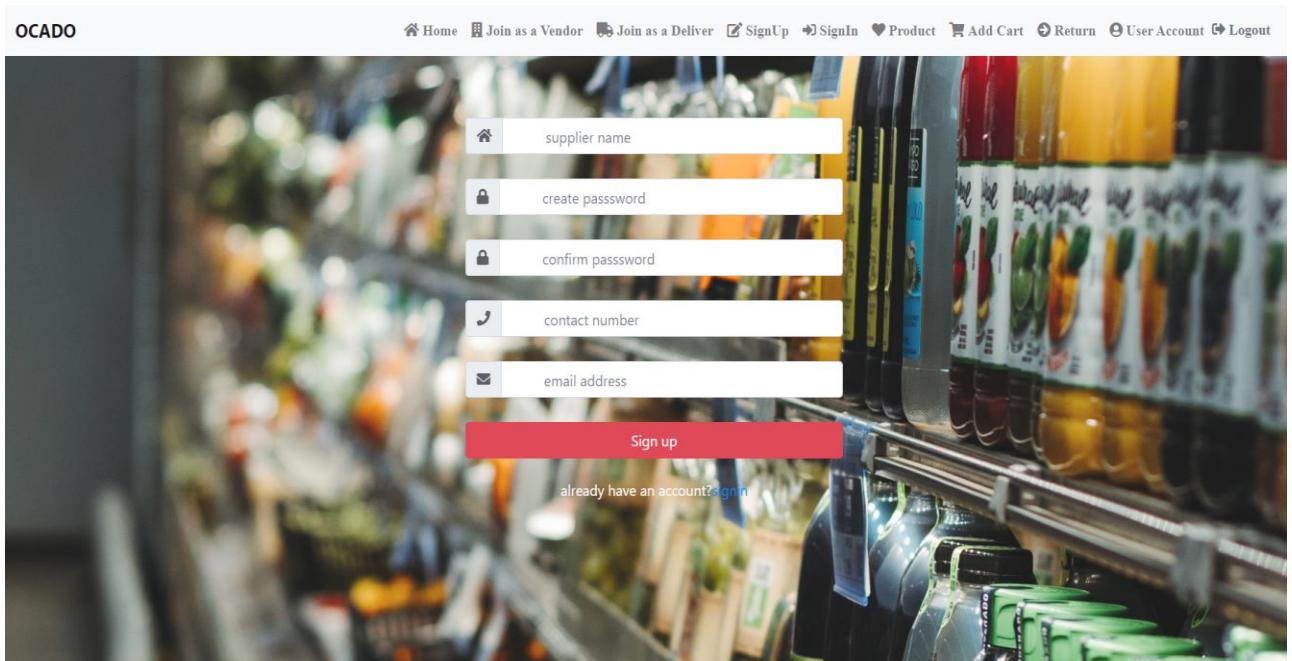
Figurer 2.2.1 – 1.3 : User Interface - Supplier Management



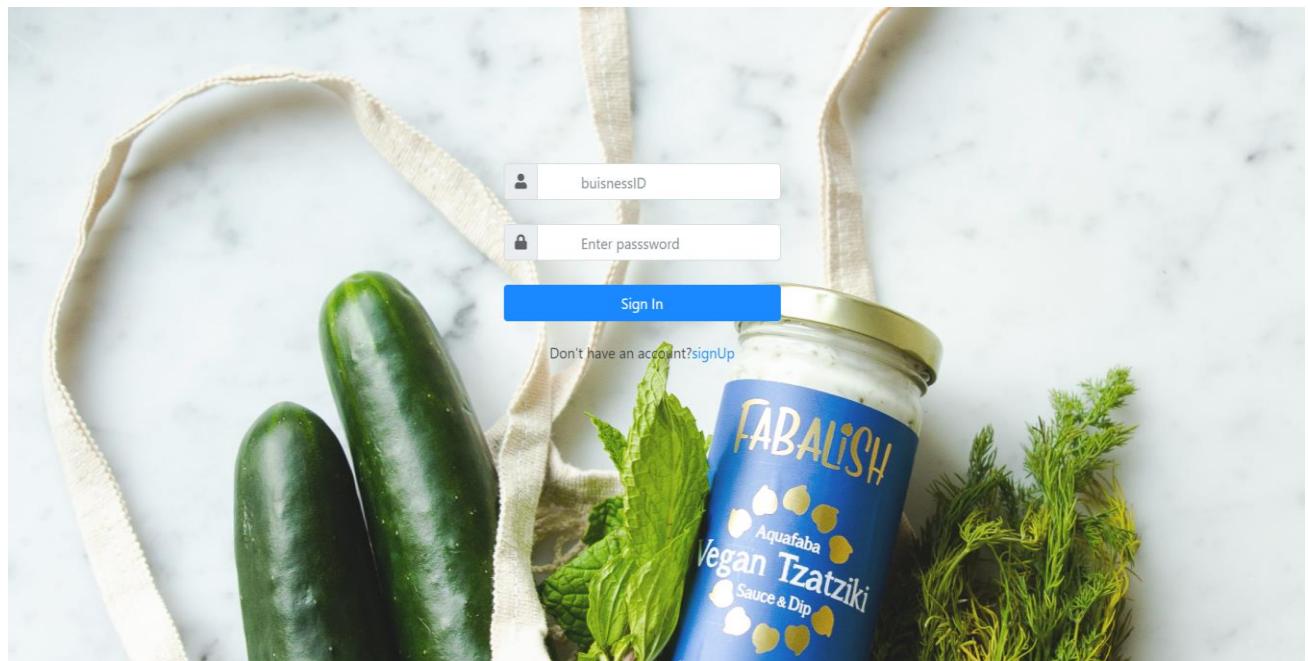
Figurer 2.2.1 – 1.4 : User Interface - Supplier Management

Index	Supplier ID	Supplier Name	Contact Number	Email	Action	Action
1	6163d958c6516c156893cf3f	Kandos	767677054	kandos@gmail.com	Update	Delete
2	6163df99c6516c156893cf75	Cargo Food	767677054	cargo.food@ocado.com	Update	Delete
3	6163ea81f215652c04f633ce	maliban	767567054	maliban@ocado@gmail.com	Update	Delete
4	6163f25df215652c04f63408	isu	767677054	isu@gmail.com	Update	Delete
5	6166d3eef091e519387d1795	Cargo Food Delivery	767677054	cargo.food@ocado.com	Update	Delete

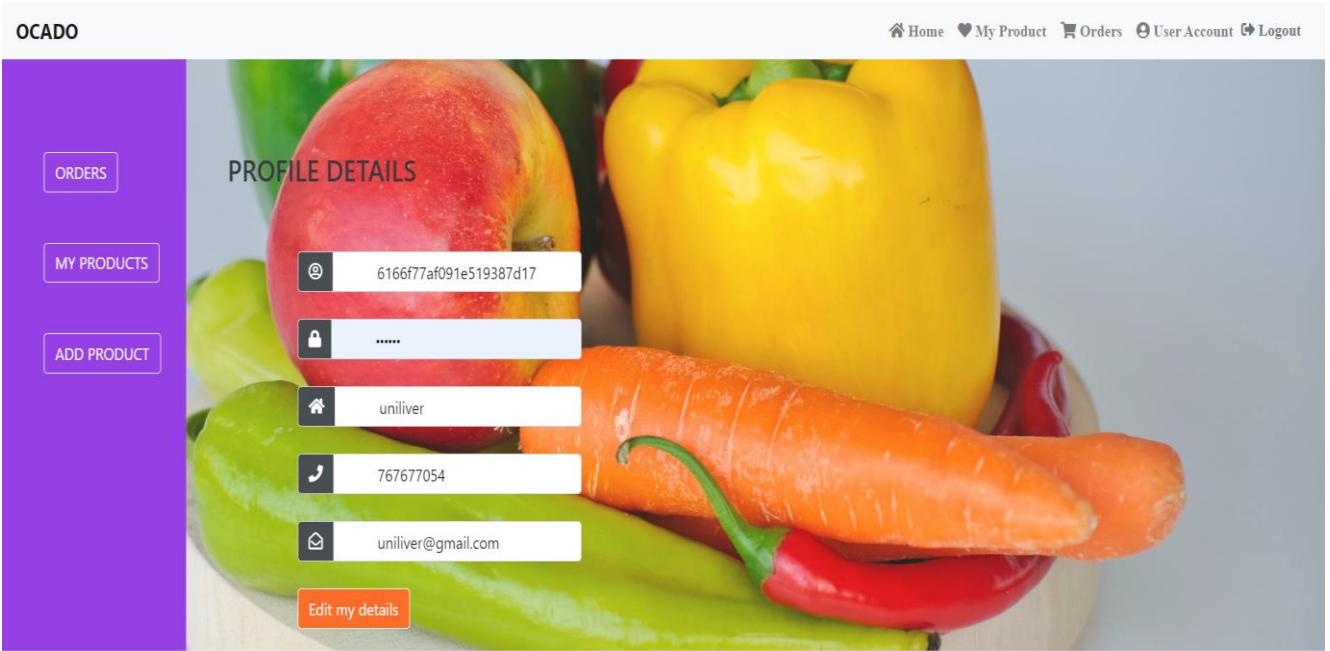
Figurer 2.2.1 – 1.5 : User Interface - Supplier Management



Figurer 2.2.1 – 1.6 : User Interface - Supplier Management



Figurer 2.2.1 – 1.7 : User Interface - Supplier Management



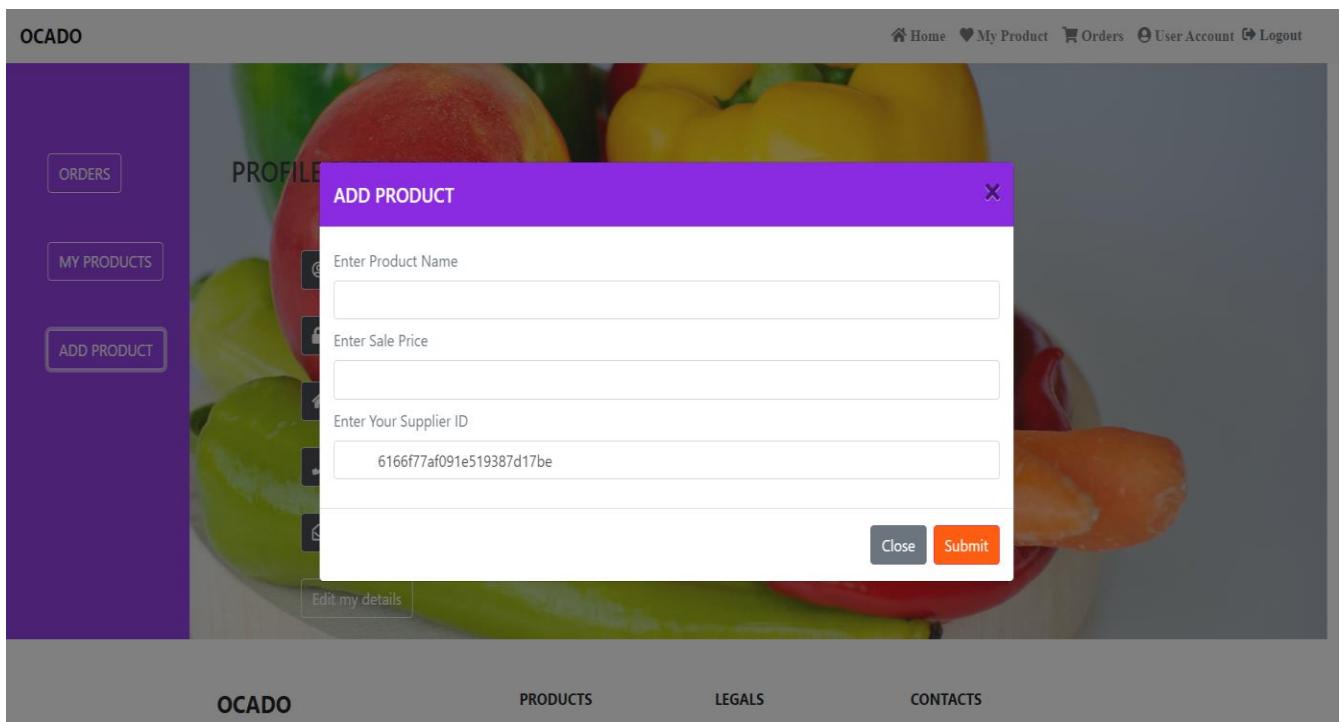
OCADO

PRODUCTS

LEGALS

CONTACTS

Figurer 2.2.1 – 1.8 : User Interface - Supplier Management



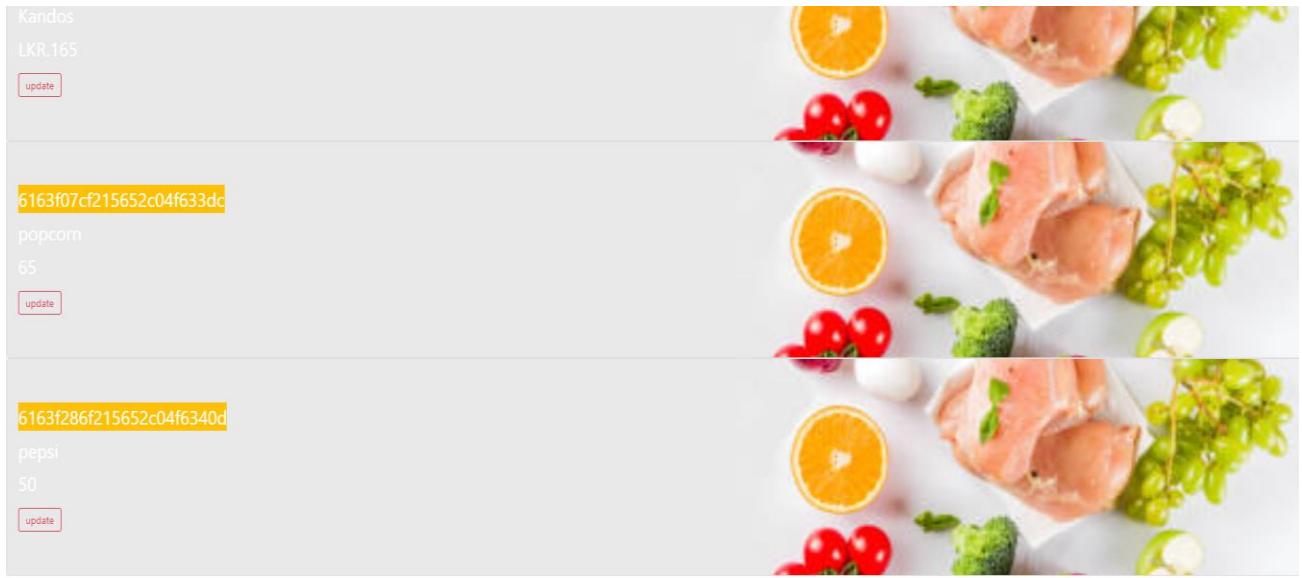
OCADO

PRODUCTS

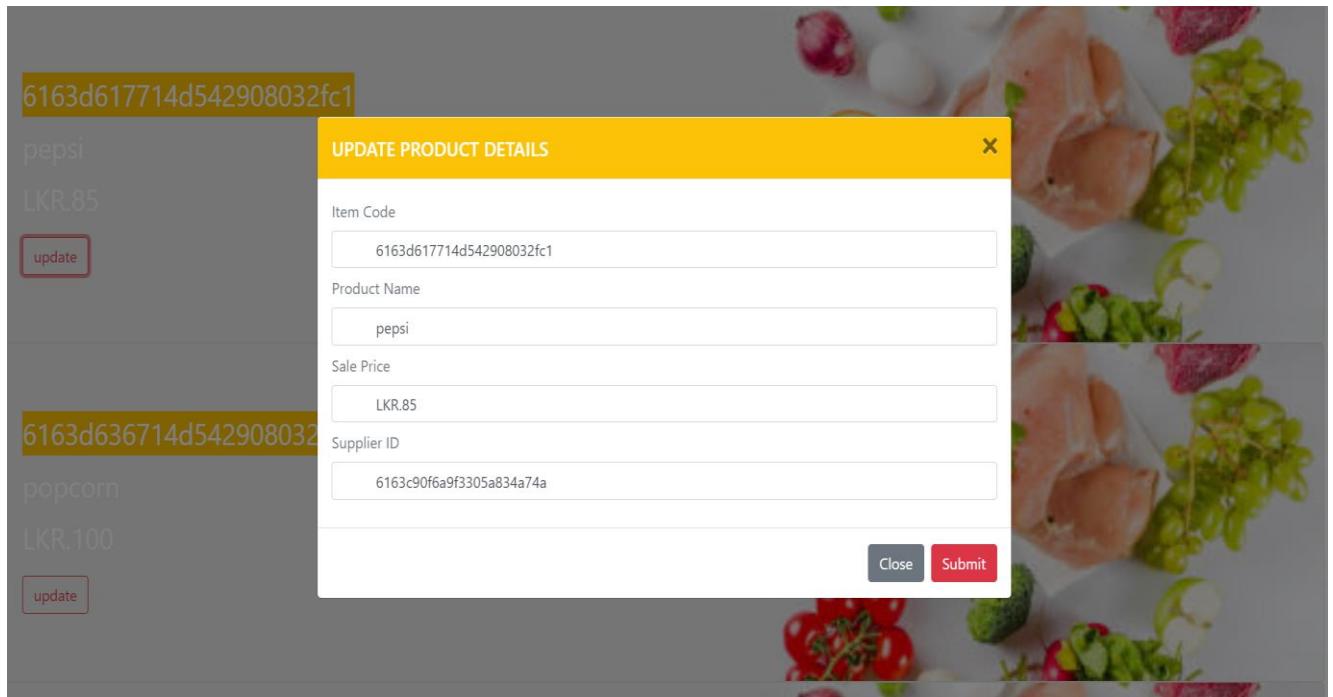
LEGALS

CONTACTS

Figurer 2.2.1 – 1.9 : User Interface - Supplier Management



Figurer 2.2.1 – 1.10 : User Interface - Supplier Management



Figurer 2.2.1 – 1.11 : User Interface - Supplier Management

The screenshot shows the OCADO user interface. On the left, there's a sidebar with buttons for 'ORDERS', 'MY PRODUCTS', and 'ADD PRODUCT'. The main area has a background image of fruit. A modal dialog box is open in the center, titled 'ADD PRODUCT'. It contains a table with columns: Index, Item Code, Order Date, Amount, Order Status, Confirm, and Reject. The table has 5 rows of data. At the bottom right of the modal is a 'Close' button.

Index	Item Code	Order Date	Amount	Order Status	Confirm	Reject
1	3698	29.09.2021	250pcs	pending	<button>Confirm</button>	<button>Reject</button>
2	3698	30.09.2021	250pcs	recieved	<button>Confirm</button>	<button>Reject</button>
3	3698	12.05.2022	250pcs	pending	<button>Confirm</button>	<button>Reject</button>
4	3698	30.09.2021	100pcs	recieved	<button>Confirm</button>	<button>Reject</button>
5	3698	12.05.2022	100pcs	pending	<button>Confirm</button>	<button>Reject</button>

Figurer 2.2.1 – 1.12 : User Interface - Supplier Management

**OCADO Company**

ocado@gmail.com  
Ward Place, Colombo 07  
Tel No : + 94 112685569 / + 94 112685570

Monthly Order Summary  
Report Generated Date - Oct-11-2021

orderID	totalPrice	orderDate	orderStatus	amount	itemCode	supplierID	billID
6163dc7c6516c156893cf56	Rs.65 000	29.09.2021	pending	250pcs	3698	61611a1e95876c23c4e7e304	BN786
6163e03fc6516c156893cf86	Rs.30 0000	30.09.2021	pending	250pcs	3698	6163c90f6a9f3305a834a74a	yt450
6163eac2f215652c04f633d2	Rs.65 000	12.05.2022	pending	250pcs	3698	6163c90f6a9f3305a834a74a	QWT789
6163f0cdf215652c04f633e4	Rs.30 0000	30.09.2021	pending	25	3698	61611a1e95876c23c4e7e304	BN786

Figurer 2.2.1 – 1.13 : User Interface - Supplier Management

## Admin Panel Management

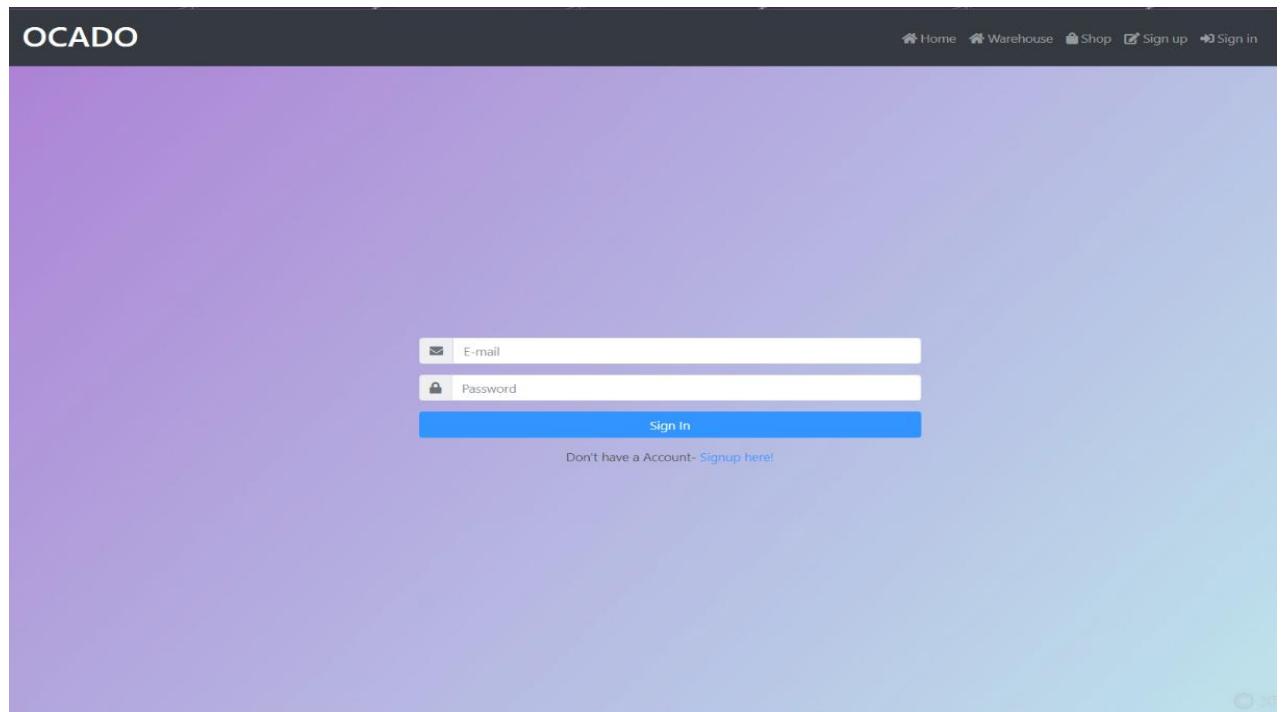
The screenshot shows the OCADO Admin Panel Management interface. At the top, there is a navigation bar with links for Home, Warehouse, Shop, Sign up, and Sign in. Below the navigation bar, there is a purple header area with the OCADO logo and a "Hey, check this out." message. A "SIGN UP" button is also present in this area. The main content area features a sidebar titled "Filters" containing a search bar and a list of categories: Fish, Milk, Meat, Soap, Body wash, Vegetables, Baby care, Fruits, Beverage, Toilet cleaner, and AAA. To the right of the sidebar, there are four product cards:

- Ceylon Fisheries Corporation Thalapath**: \$1.00. A product description is the marketing copy that explains wh.... [View product](#) [Add to cart](#)
- The body shop Smoky Poppy**: \$5.00. A product description is the marketing copy that explains wh.... [View product](#) [Add to cart](#)
- Anchor milk Milk**: \$2.10. A product description is the marketing copy that explains wh.... [View product](#) [Add to cart](#)

Figurer 2.2.1 – 2.0 : User Interface – Admin Panel Management

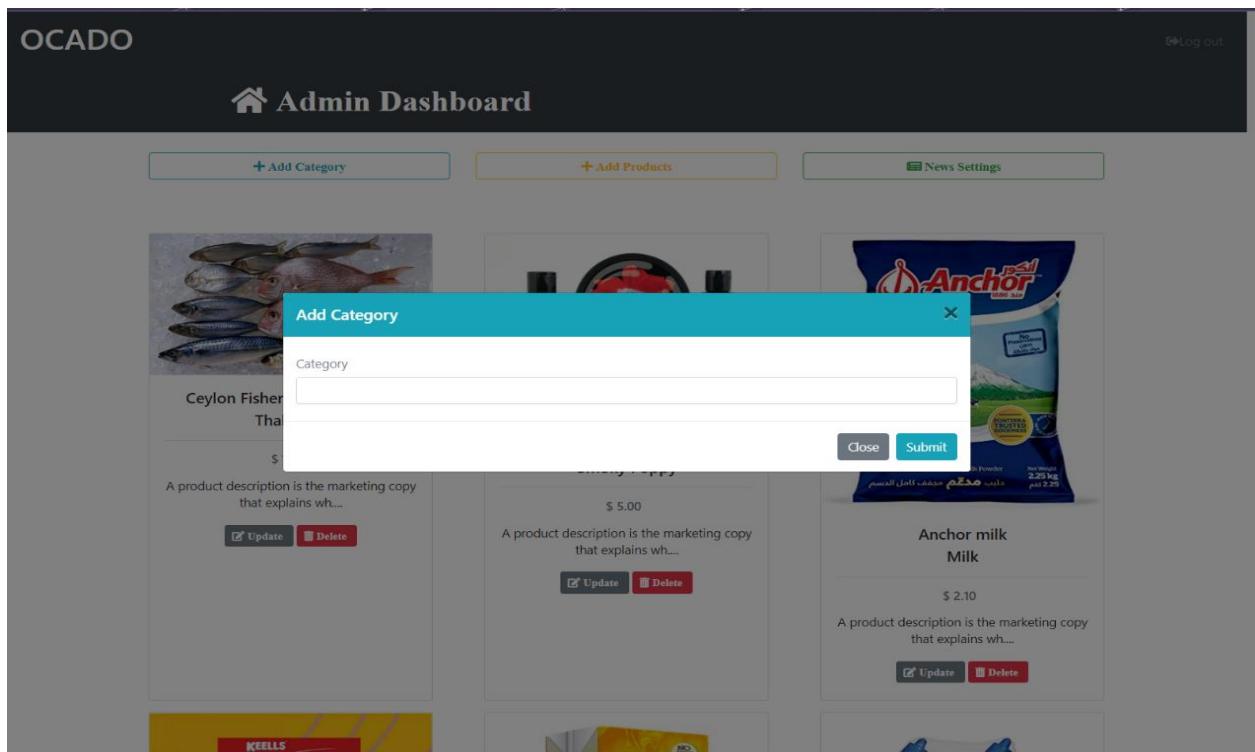
The screenshot shows the OCADO Admin Panel Management interface. At the top, there is a navigation bar with links for Home, Warehouse, Shop, Sign up, and Sign in. Below the navigation bar, there is a large form for creating a new account. The form consists of several input fields with icons: First name, Last name, E-mail, Contact number, Username, Password, and Confirm Password. Below the input fields is a blue "Sign Up" button. At the bottom of the form, there is a link "Have a Account? Sign in".

Figurer 2.2.1 – 2.1 : User Interface – Admin Panel Management

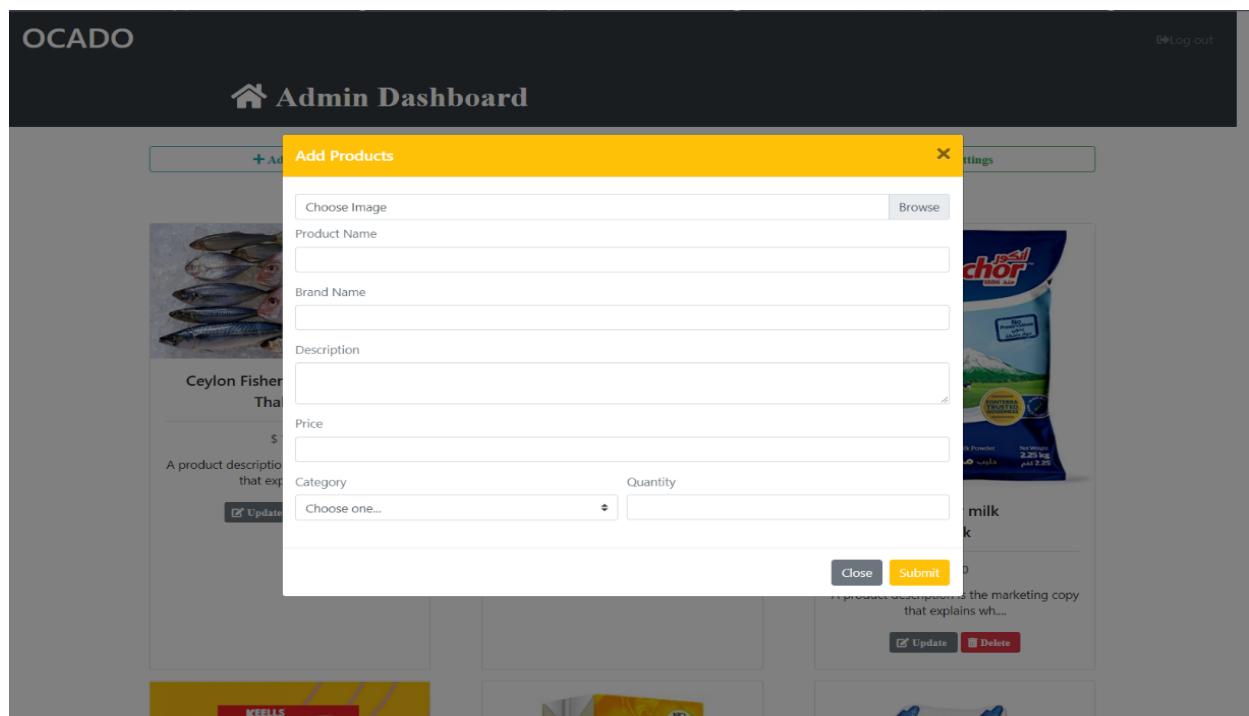


*Figurer 2.2.1 – 2.2 : User Interface – Admin Panel Management*

*Figurer 2.2.1 – 2.3 : User Interface – Admin Panel Management*



Figurer 2.2.1 – 2.4 : User Interface – Admin Panel Management



Figurer 2.2.1 – 2.5 : User Interface – Admin Panel Management

**OCADO**

**Admin Dashboard**

[Go Back](#)

**Update Food**

Name: Thalapath

Brand name: Ceylon Fisheries Corporation

Description: A product description is the marketing copy that explains what a product is and why it's worth purchasing. The purpose of a product description is to supply customers with important information about the features and benefits of the product so they're compelled to buy.

Price: 1

Category: Fish

Quantity: 12

**Submit**

*Figurer 2.2.1 – 2.6 : User Interface – Admin Panel Management*

### 30% Discount for Buyers

Government launches First Homes scheme with 30% discount for first-time buyers. That same percentage will then be passed on with the sale of the property to future first-time buyers, meaning homes will always be sold below market value

### 30% Discount for Drivers

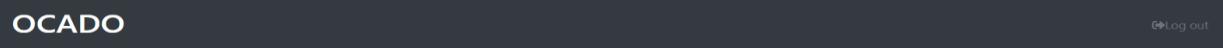
Your insurance company is offering a discount to you if you agree to place a device in your car that allows monitoring of your driving speed and location. After the company collects data about your driving habits, it may offer you further discounts to reward you for safe driving

### New Product Added

A product description is the marketing copy that explains what a product is and why it's worth purchasing. The purpose of a product description is to supply customers with important information about the features and benefits of the product so they're compelled to buy.



*Figurer 2.2.1 – 2.7 : User Interface – Admin Panel Management*



Figurer 2.2.1 – 2.8 : User Interface – Admin Panel Management

A screenshot of the OCADO Admin Panel Management interface showing a news list and footer. The top bar has the OCADO logo and a Log out link. The main area shows a table for news items with columns for 'Title ID', 'Topic', 'News Description', and 'Action'. One news item is listed with Topic 'xdvxvxxv' and Description 'The noun discount refers to an amount or'. Action buttons include 'Update' (yellow) and 'Delete' (red). Below the table are buttons for 'Create New News' and 'Generate Report'. The footer contains the OCADO logo, a brief description of the company, and links for 'PRODUCTS', 'LEGALS', and 'CONTACTS'. The CONTACTS section provides address, email, phone numbers, and social media links. A copyright notice at the bottom left reads '© 2021 Copyright: Ocado.com'.

Figurer 2.2.1 – 2.9 : User Interface – Admin Panel Management

The screenshot shows a web-based admin panel for managing news items. At the top, there's a dark header bar with the 'OCADO' logo on the left and a 'Log out' link on the right. Below the header is a search bar with the placeholder 'Topic' and a text input field containing 'xdvxxxx'. Underneath the search bar is a 'News Description' section with a rich text editor containing the text: 'The noun discount refers to an amount or percentage deducted from the normal selling price of something. The noun discount means a reduction in price of a good or service. You can ask the manager for a discount if the item is damaged. As a verb, discount means to reduce the price.' At the bottom of this section is a blue 'Update' button.

*Figurer 2.2.1 – 2.10 : User Interface – Admin Panel Management*

This screenshot displays the OCADO Admin Panel Management interface. At the top, it features a purple header with the text 'OCADO News'. Below the header is a search bar with the word 'new'. The main content area contains a table with the following data:

Title ID	Topic	News Description	Action
1	New Product Added	A product description is the marketing copy that explains what a product is and why it's	<input checked="" type="button"/> Update <input type="button"/> Delete

Below the table are two buttons: 'Create New News' and 'Generate Report'. At the very bottom of the page is a dark footer bar with the following information:

- OCADO**: Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!
- PRODUCTS**: Trending, My Account, Vendors, Brands.
- LEGALS**: Licences, Refund Policy, About us, Contact Us.
- CONTACTS**: Ward Place, Colombo 07, ocado@gmail.com, + 94 112685569, + 94 112685570.

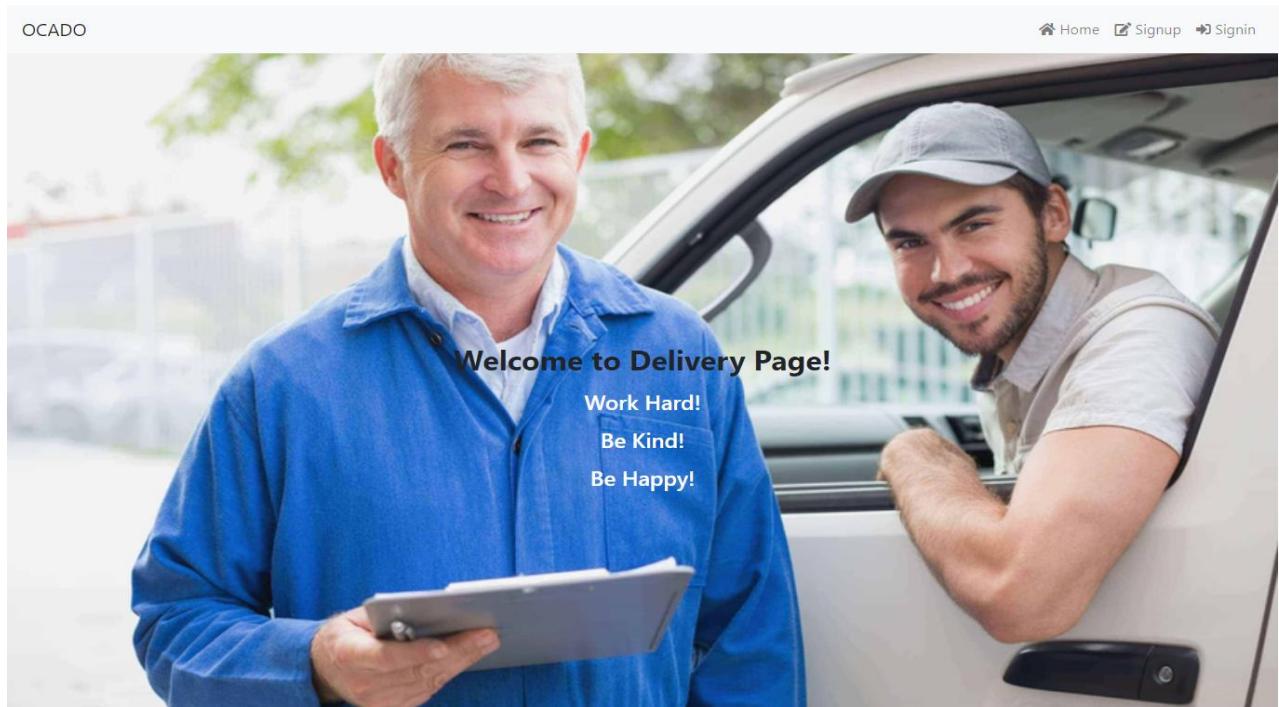
The footer also includes social media links for Facebook, Twitter, Google+, and LinkedIn, along with a copyright notice: '© 2021 Copyright: Ocado.com'.

*Figurer 2.2.1 – 2.11 : User Interface – Admin Panel Management*

OCADO Company	
Topic	News Description
30% Discount for Buyers	Government launches First Homes scheme with 30% discount for first-time buyers. That same percentage will then be passed on with the sale of the property to future first-time buyers, meaning homes will always be sold below market value
30% Discount for Drivers	Your insurance company is offering a discount to you if you agree to place a device in your car that allows monitoring of your driving speed and location. After the company collects data about your driving habits, it may offer you further discounts to reward you for safe driving
New Product Added	A product description is the marketing copy that explains what a product is and why it's worth purchasing. The purpose of a product description is to supply customers with important information about the features and benefits of the product so they're compelled to buy.

*Figurer 2.2.1 – 2.12 : User Interface – Admin Panel Management*

## Delivery Management



Figurer 2.2.1 – 3.0 : User Interface – Delivery Management

A screenshot of the OCADO Driver Registration user interface. At the top left is the OCADO logo. At the top right are links for 'Home', 'Signup', and 'Signin'. The main image shows a driver in a red uniform and cap smiling from inside a car. The form is titled 'Driver Registration' and contains two sections: 'Enter your own Information' and 'Enter your Bank Details'. Both sections have multiple input fields with icons. At the bottom are 'Submit' and 'NEXT' buttons, and a link 'Have an account? Log In'.

Figurer 2.2.1 – 3.1 : User Interface – Delivery Management

OCADO

Home Signup Signin

## Driver Registration

Enter your Vehicle Details



Make Model

Year of Manufactured

Year of Registered

Vehicle Number

Capacity  Length  Width

Availability of Freezer

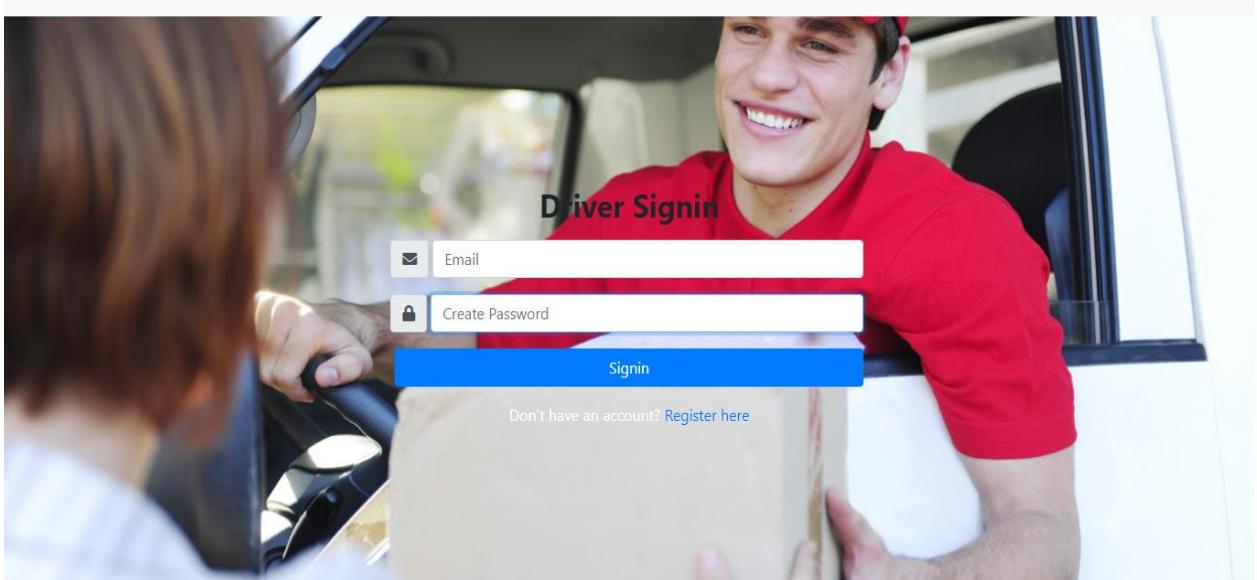
Have an account? [Log In](#)

Figurer 2.2.1 – 3.2 : User Interface – Delivery Management

OCADO

Home Signup Signin

## Driver Signin

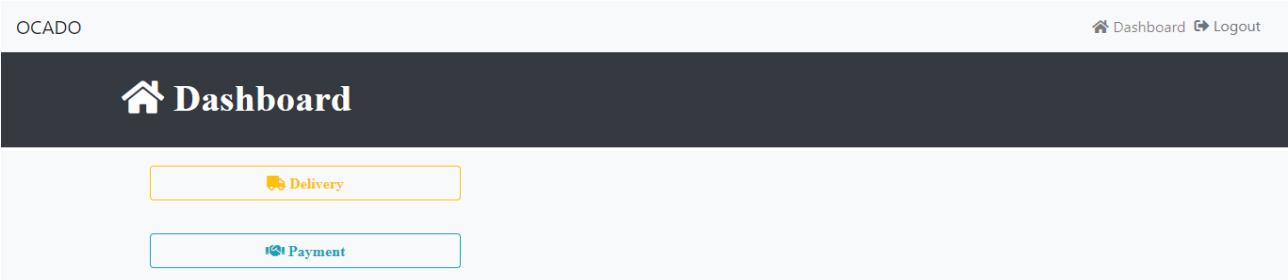


Email

Create Password

Don't have an account? [Register here](#)

Figurer 2.2.1 – 3.3 : User Interface – Delivery Management



Figurer 2.2.1 – 3.4 : User Interface – Delivery Management

Delivery Details								Search
Count	Order Id	Delivered Date	Delivery Address	Delivery Time	Driver ID	Description	Action	
1	U8585	09/11/2021	38,Kirula Rd,Pannipitiya.	11.00am	D9090	Done	Edit Details	
2	U4567	20/08/2021	24,Temple rd,Dehiwala.	1.30pm	D3537	Done	Edit Details	
3	U7896	10/05/2021	01,Garden rd,Rathmalana.	2.30pm	D5656	Done	Edit Details	
4	U5002	19/10/2021	2/1,Peris Rd,Kalubovila	5.30pm	D4590	Pending	Edit Details	
5	U9090	25/10/2021	2/1,Lake Rd, Rathmalana.	3.30pm	D9090	Done	Edit Details	
6	U4567	09/10/2021	2/1,Samagi Mawatha,Panadura.	4.30pm	D8080	Not Delivered	Edit Details	
7	U7050	10/10/2021	2/1,Avariheна Rd, Rathmalana.	2.30pm	D7075	Pending	Edit Details	
8	U7856	11/10/2021	2/1,Nikape Rd, Kaluthara.	3.30pm	D8075	Not delivered	Edit Details	

Figurer 2.2.1 – 3.5 : User Interface – Delivery Management

OCADO

[Dashboard](#) [Logout](#)

### Update Delivery

Oder ID

Delivered Date

Delivery Address

Delivery Time

Driver ID

Description

[Update](#)

*Figurer 2.2.1 – 3.6 : User Interface – Delivery Management*

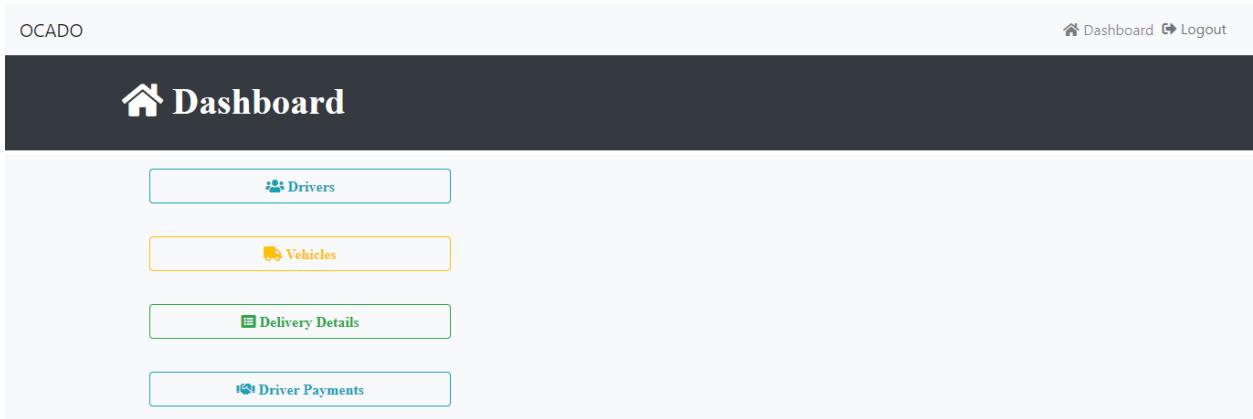
OCADO

[Dashboard](#) [Logout](#)

### Driver Payment Details

Count	Driver ID	Driver Name	Payment Date	Payment Description	Payment Amount	Payment Status
1	D9090	Nimal Perera	28/09/2021	15000+(30*1200)	Rs.51000	Done
2	D4545	Priyantha Wimalasiri	28/09/2021	15000+(30*900)	42000	Done
3	D6065	Kalum Lakmal	28/10/2021	15000+(30*700)	36000	Done
4	D2525	Nishantha Kumarasena	28/09/2021	15000+(30*800)	40000	Done

*Figurer 2.2.1 – 3.7 : User Interface – Delivery Management*



*Figurer 2.2.1 – 3.8 : User Interface – Delivery Management*

Driver Details											Bank Account Holder Name			
Count	Driver ID	First Name	Last Name	Email	Mobile	NIC	DL Number	Address	Create Password	Bank Name	Account Number	Bank Branch	Branch Number	
1	D8585	Dul	Kandana	dul@gmail.com	0712345678	995782476V	223456789	38,kirula Rd. Maharagama.	\$2a\$10\$/a7lSovxEarDrAaN.DsfQxR26qn9eqjHjAhRBjTxFcCeDkJO	Dul Kandana	BOC	897-456-234	Headoffice	B345
2	D9090	Nimal	Perera	nimal@gmail.com	0713456781	685782476V	2456723456	93/1,Uswaththa Rd, Piliyandala.	\$2a\$10\$Mv9xqFLMGNYa.ujSoMvduu9o7zZyGkAaM/n/vFBx5gBcVIGMkoR2	Nimal Perera	NSB	890-456-234	Piliyandala	B789
3	0	Naleen	Hapuarachchi	naleen@gmail.com	0712342323	825782476V	223345789	103, Ranaviru Patumaga. Horana.	\$2a\$10\$TyrS3sgNagEw/Op0L9yLi870GsKVQDeLU5Nw.lPu7jehsSApwFi	Naleen Hapuarachchi	NSB	1234789789	Horana	B6756

[Create New](#)

*Figurer 2.2.1 – 3.9 : User Interface – Delivery Management*

## New Driver

Driver ID

First Name

Last Name

Email

Mobile

NIC

Driving Licence Number

Address

CreatePassword

Bank Account Holder Name

Bank Name

Bank Account Number

Bank Branch

Branch Number

Role

Figurer 2.2.1 – 3.10 : User Interface – Delivery Management

## Update Driver

Driver ID

D8585

First Name

Dul

Last Name

Kandana

Email

dul@gmail.com

Mobile

0712345678

NIC

995782476V

Driving Licence Number

223456789

Address

38,kirula Rd, Maharagama.

CreatePassword

\$2a\$10\$/a7l5oxxE/arDrAaN.DsfeQRxR26qn9eqiHjAhRBjxTx.FCeDk.iO

Bank Account Holder Name

Dul Kandana

Bank Name

BOC

Bank Account Number

897-456-234

Bank Branch

Headoffice

Branch Number

B345

Role

1

Update

Figurer 2.2.1 – 3.11 : User Interface – Delivery Management

OCADO

Dashboard Logout

### Delivery Details

Count	Order Id	Delivered Date	Delivery Address	Delivery Time	Driver ID	Description	Action
1	<a href="#">U8585</a>	09/11/2021	38,Kirula Rd,Pannipitiya.	11.00am	D9090	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
2	<a href="#">U4567</a>	20/08/2021	24,Temple rd,Dehiwala.	1.30pm	D3537	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
3	<a href="#">U7896</a>	10/05/2021	01,Garden rd,Rathmalana.	2.30pm	D5656	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
4	<a href="#">U5002</a>	19/10/2021	2/1,Peris Rd,Kalubovila	5.30pm	D4590	Pending	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
5	<a href="#">U9090</a>	25/10/2021	2/1,Lake Rd, Rathmalana.	3.30pm	D9090	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
6	<a href="#">U4567</a>	09/10/2021	2/1, Samagi Mawatha, Panadura.	4.30pm	D8080	Not Delivered	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
7	<a href="#">U7050</a>	10/10/2021	2/1,Avari恒na Rd, Rathmalana.	2.30pm	D7075	Pending	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
8	<a href="#">U7856</a>	11/10/2021	2/1,Nikape Rd, Kaluthara.	3.30pm	D8075	Not delivered	<a href="#">Edit Details</a> <a href="#">Delete Details</a>

[Create New](#)

[Generate Report](#)

Figurer 2.2.1 – 3.12 : User Interface – Delivery Management

OCADO

Dashboard Logout

### New Delivery

Oder ID

Delivered Date

Delivery Address

Delivery Time

Driver ID

Description

[Submit](#)

Figurer 2.2.1 – 3.13 : User Interface – Delivery Management

OCADO

[Dashboard](#) [Logout](#)

## Update Delivery

Oder ID

Delivered Date

Delivery Address

Delivery Time

Driver ID

Description

[Update](#)

*Figurer 2.2.1 – 3.14 : User Interface – Delivery Management*

OCADO

[Dashboard](#) [Logout](#)

## Delivery Details

Count	Order Id	Delivered Date	Delivery Address	Delivery Time	Driver ID	Description	Action
1	<a href="#">U8585</a>	09/11/2021	38,Kirula Rd,Pannipitiya.	11.00am	D9090	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
2	<a href="#">U4567</a>	20/08/2021	24,Temple rd,Dehiwala.	1.30pm	D3537	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
3	<a href="#">U7896</a>	10/05/2021	01,Garden rd,Rathmalana.	2.30pm	D5656	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
4	<a href="#">U5002</a>	19/10/2021	2/1,Peris Rd,Kalubovila	5.30pm	D4590	Pending	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
5	<a href="#">U9090</a>	25/10/2021	2/1,Lake Rd, Rathmalana.	3.30pm	D9090	Done	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
6	<a href="#">U4567</a>	09/10/2021	2/1,Samagi Mawatha,Panadura.	4.30pm	D8080	Not Delivered	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
7	<a href="#">U7050</a>	10/10/2021	2/1,Avariheha Rd, Rathmalana.	2.30pm	D7075	Pending	<a href="#">Edit Details</a> <a href="#">Delete Details</a>
8	<a href="#">U7856</a>	11/10/2021	2/1,Nikape Rd, Kaluthara.	3.30pm	D8075	Not delivered	<a href="#">Edit Details</a> <a href="#">Delete Details</a>

[Create New](#)

[Generate Report](#)

*Figurer 2.2.1 – 3.15 : User Interface – Delivery Management*

☰ Delivery details report (1).pdf 1 / 1 | - 100% + | ☰

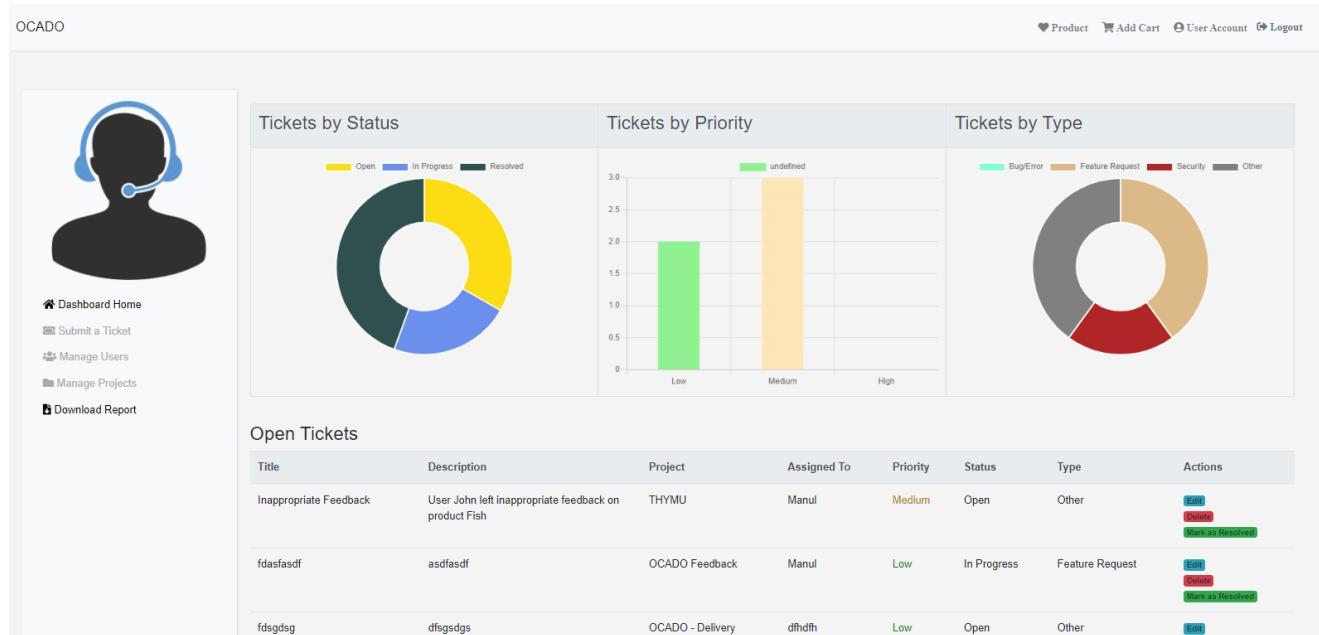
OCADO Company  
ocado@gmail.com  
Ward Place, Colombo 07  
Tel No : +94 112685569 / +94 112685570

Delivery Details Report  
Report Generated Date - Oct-14-2021

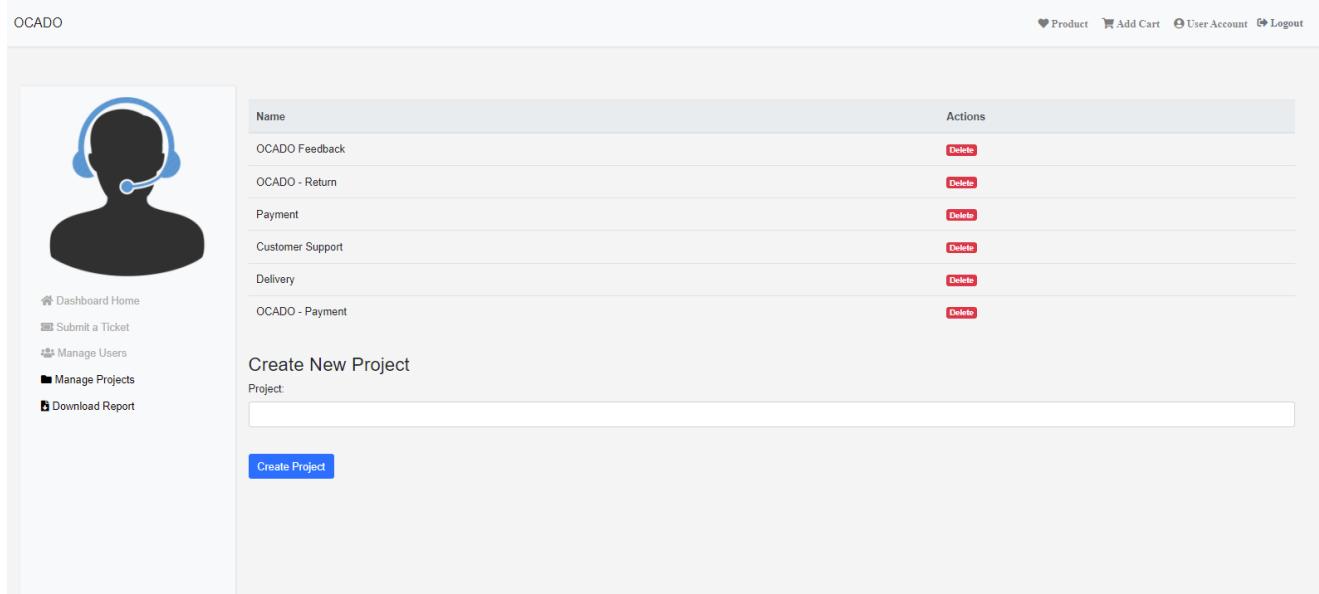
order_id	delivered_date	delivery_address	delivered_time	driver_id	description
U8585	09/11/2021	38,Kirula Rd,Pannipitiya.	11.00am	D9090	Done
U4567	20/08/2021	24, Temple rd, Dehiwala.	1.30pm	D3537	Done
U7896	10/05/2021	01, Garden rd, Rathmalana.	2.30pm	D5656	Done
U5002	19/10/2021	2/1, Peris Rd, Kalubovila	5.30pm	D4590	Pending
U9090	25/10/2021	2/1, Lake Rd, Rathmalana.	3.30pm	D9090	Done
U4567	09/10/2021	2/1, Samagi Mawatha, Panadura.	4.30pm	D8080	Not Delivered
U7050	10/10/2021	2/1, Avarihena Rd, Rathmalana.	2.30pm	D7075	Pending
U7856	11/10/2021	2/1, Nikape Rd, Kaluthara.	3.30pm	D8075	Not delivered

Figurer 2.2.1 – 3.16 : User Interface – Delivery Management

## Feedback Management



Figurer 2.2.1 – 4.0 : User Interface – Feedback Management



Figurer 2.2.1 – 4.1 : User Interface – Feedback Management

OCADO



- [Dashboard Home](#)
- [Submit a Ticket](#)
- [Manage Users](#)
- [Manage Projects](#)
- [Download Report](#)

Name	Email	Role	Actions
kanjanaepitawatta@gmail.com		1	<a href="#">Delete</a>
kanjanaepitawatta12@gmail.com		Admin	<a href="#">Delete</a>
Manul	manulthisuraka@gmail.com	Admin	<a href="#">Delete</a>
Maleesha	malee@gmail.com	Developer	<a href="#">Delete</a>
Kanjana	kanjana@gmail.com	Admin	<a href="#">Delete</a>
Ashani	ashani@gmail.com	Admin	<a href="#">Delete</a>
Vibhu	vibhu@gmail.com	0	<a href="#">Delete</a>
		Admin	<a href="#">Delete</a>

**Create New User**

Name:

Email:

Role:

[Create User](#)

Figurer 2.2.1 – 4.2 : User Interface – Feedback Management

OCADO



- [Dashboard Home](#)
- [Submit a Ticket](#)
- [Manage Users](#)
- [Manage Projects](#)
- [Download Report](#)

**Submit a Ticket**

Title:

Description:

Project Name:

Assigned To:

Priority:

Status:

Type:

[Submit Ticket](#)

Figurer 2.2.1 – 4.3 : User Interface – Feedback Management

OCADO

Product Add Cart User Account Logout

### All Feedbacks

#	Title	Description	Category	Actions
0	Sirisena	Expired product	Not good at all	<a href="#">Edit</a> <a href="#">Delete</a>
1	Sumanalatha	Good one	Good	<a href="#">Edit</a> <a href="#">Delete</a>
2	Kamal	Pretty Good. Best high quality	Excellent	<a href="#">Edit</a> <a href="#">Delete</a>
3	Nimali	Spoiled Vegetables	Not good at all	<a href="#">Edit</a> <a href="#">Delete</a>
4	Malee	Fresh Goods	Good	<a href="#">Edit</a> <a href="#">Delete</a>
5	Jenny	Fresh Fruit	Pretty Good	<a href="#">Edit</a> <a href="#">Delete</a>
6	Susantha	Good Product!	Anchor	<a href="#">Edit</a> <a href="#">Delete</a>

Figurer 2.2.1 – 4.4 : User Interface – Feedback Management

OCADO

Product Add Cart User Account Logout

### Edit Post

Your Name

Review Title

Body of Review (1500)

Paragraph Font Size: 10pt 12pt 14pt 16pt 18pt 20pt 22pt 24pt 26pt 28pt 30pt 32pt 34pt 36pt 38pt 40pt

Nice Product!

[Update](#)

Figurer 2.2.1 – 4.5 : User Interface – Feedback Management

## All Feedbacks

Search

#	Title	Description	Category	Actions	
0	Sudewa	Nice Product!	Excellent	<a href="#"></a>	<a href="#"></a>
1	Sirisena	Expired product	Not good at all	<a href="#"></a>	<a href="#"></a>
2	Sumanalatha	Good one	Good	<a href="#"></a>	<a href="#"></a>
3	Kamal	Pretty Good. Best high quality	Excellent	<a href="#"></a>	<a href="#"></a>
4	Nimali	Spoiled Vegetables	Not good at all	<a href="#"></a>	<a href="#"></a>
5	Malee	Fresh Goods	Good	<a href="#"></a>	<a href="#"></a>
6	Jenny	Fresh Fruit	Pretty Good	<a href="#"></a>	<a href="#"></a>
7	Susantha	Good Product!	Anchor	<a href="#"></a>	<a href="#"></a>

*Figurer 2.2.1 – 4.6 : User Interface – Feedback Management*

## Anchor Milk

Price: Rs 500

Status:	In Stock
Qty:	<input type="button" value="1"/>

[Add To Cart](#)[Write a Review](#)

Buyer Name  
Susantha  
Manul

Description  
Good Product!  
Thank you very much order received. Quality satisfied. I'll set it up and send you a report later.

*Figurer 2.2.1 – 4.7 : User Interface – Feedback Management*

## WRITE A REVIEW

Your Name

Enter Your Name

Review Title

Give your review a title

Body of Review (1500)

Enter Description

You didn't review yet!



*Figurer 2.2.1 – 4.8 : User Interface – Feedback*

## OCADO Company

ocado@gmail.com

Ward Place, Colombo 07

Tel No : + 94 112685569 / + 94 112685570



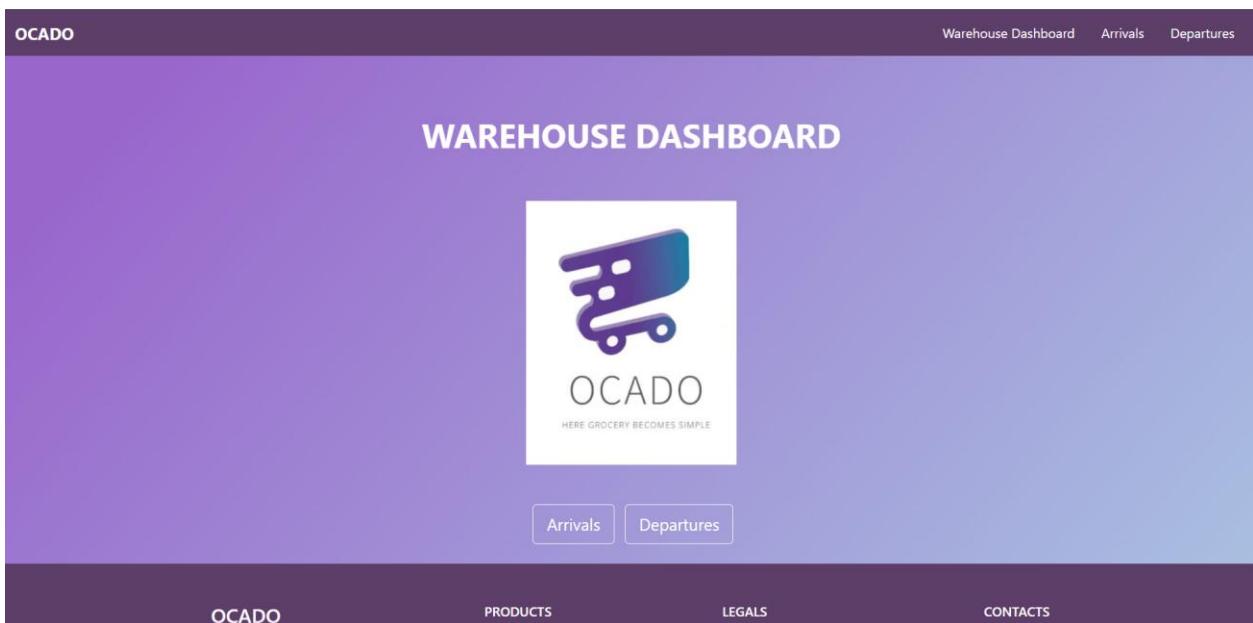
Return item Detail Report

Report Generated Date - Oct-11-2021

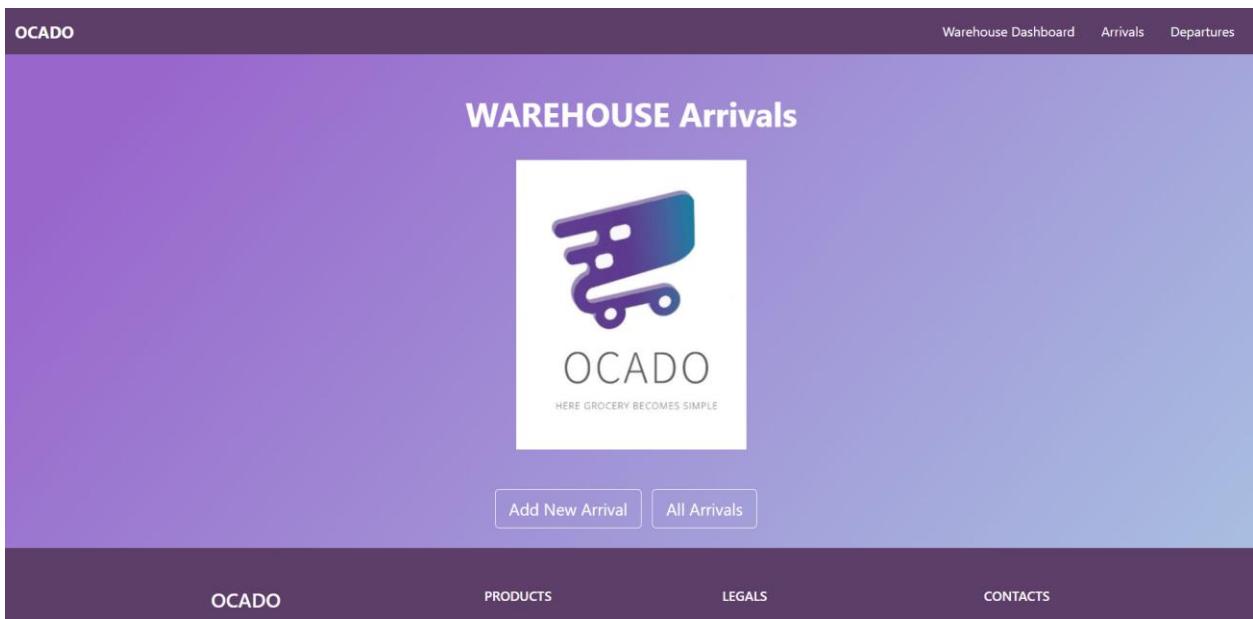
Title	Description	Project	Assigned To	Priority	Status	Type
fdsaf	fdfsdf	THYMU	Manul	Medium	Resolved	Security
Inappropriate Feedback	User John left inappropriate feedback on product Fish	THYMU	Manul	Medium	Open	Other
Payment Issue	User 0954 had issue with payment	THYMU	Maleesh a	High	Resolved	Security
fdasfasdf	asdfasdf	OCADO Feedbac k	Manul	Low	In Progress	Feature Request
fasdfassssssssssss	fasaswfsdagfvsdegsredgvbdscgv fasaswfsdagfvsdegsredgvbdscgv	OCADO Feedbac k	Manul	High	Resolved	Other
fdsgdsg	dfsgsdgs	OCADO - Delivery	dfhdflh	Low	Open	Other
bfgdxcb	xvcxbx	OCADO Feedbac k	Maleesh a	Medium	In Progress	Feature Request
fvdsgsd	gsdgds	OCADO Feedbac k	Maleesh a	Medium	Open	Security
gdsg	dsgs	OCADO Feedbac k	Manul	High	In Progress	Bug/Error

*Figurer 2.2.1 – 4.9 : User Interface – Feedback Management*

## Warehouse Management



Figurer 2.2.1 – 5.0 : User Interface – Warehouse Management



Figurer 2.2.1 – 5.1 : User Interface – Warehouse Management

**OCADO**

Warehouse Dashboard    Arrivals    Departures

### New Arrival

Cart ID

Manufacture

Product Code

Arrival Date

Quantity

---

**OCADO**

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the

**PRODUCTS**

[Trending](#) [My Account](#)

**LEGALS**

[Licences](#) [Refund Policy](#)

**CONTACTS**

Ward Place, Colombo 07 [ocado@gmail.com](mailto:ocado@gmail.com)

*Figurer 2.2.1 – 5.2 : User Interface – Warehouse Management*

**OCADO**

Warehouse Dashboard    Arrivals    Departures

### All Arrivals

Count	Arrival Date	Manufacture	Product Code	Cart ID	Quantity	Action
1	2021-09-07	Munchee	PRD577	CRT067	455	<input type="button" value="Edit Details"/> <input type="button" value="Delete Arrival"/>
2	2021-09-16	little lion	PRD022	CRT466	100	<input type="button" value="Edit Details"/> <input type="button" value="Delete Arrival"/>
3	2021-09-17	Bairah	PRD009	CRT922	300	<input type="button" value="Edit Details"/> <input type="button" value="Delete Arrival"/>
4	2021-09-18	Krest	PRD488	CRT603	1600	<input type="button" value="Edit Details"/> <input type="button" value="Delete Arrival"/>
5	2021-09-17	Wendys	PRD366	CRT822	1400	<input type="button" value="Edit Details"/> <input type="button" value="Delete Arrival"/>
6	2021-09-20	Araliya	PRD144	CRT177	2500	<input type="button" value="Edit Details"/> <input type="button" value="Delete Arrival"/>

---

**OCADO**

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the

**PRODUCTS**

[Trending](#) [My Account](#)

**LEGALS**

[Licences](#) [Refund Policy](#)

**CONTACTS**

Ward Place, Colombo 07 [ocado@gmail.com](mailto:ocado@gmail.com)

*Figurer 2.2.1 – 5.3 : User Interface – Warehouse Management*

**OCADO**

**Edit Arrival**

Cart ID	CRT067
manufacture	Munchee
Product Code	PRD577
Arrival Date	09/07/2021 <input type="button" value="Delete"/>
Quantity	455
<input type="button" value="Update"/>	

---

<b>OCADO</b>	<b>PRODUCTS</b>	<b>LEGALS</b>	<b>CONTACTS</b>
Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!	<a href="#">Trending</a> <a href="#">My Account</a> <a href="#">Vendors</a> <a href="#">Brands</a>	<a href="#">Licences</a> <a href="#">Refund Policy</a> <a href="#">About us</a> <a href="#">Contact Us</a>	Ward Place, Colombo 07 ocado@gmail.com + 94 112685569 + 94 112685570

© 2021 Copyright: [Ocado.com](#)

*Figurer 2.2.1 – 5.4 : User Interface – Warehouse Management*

# OCADO Warehouse

Warehouse Department

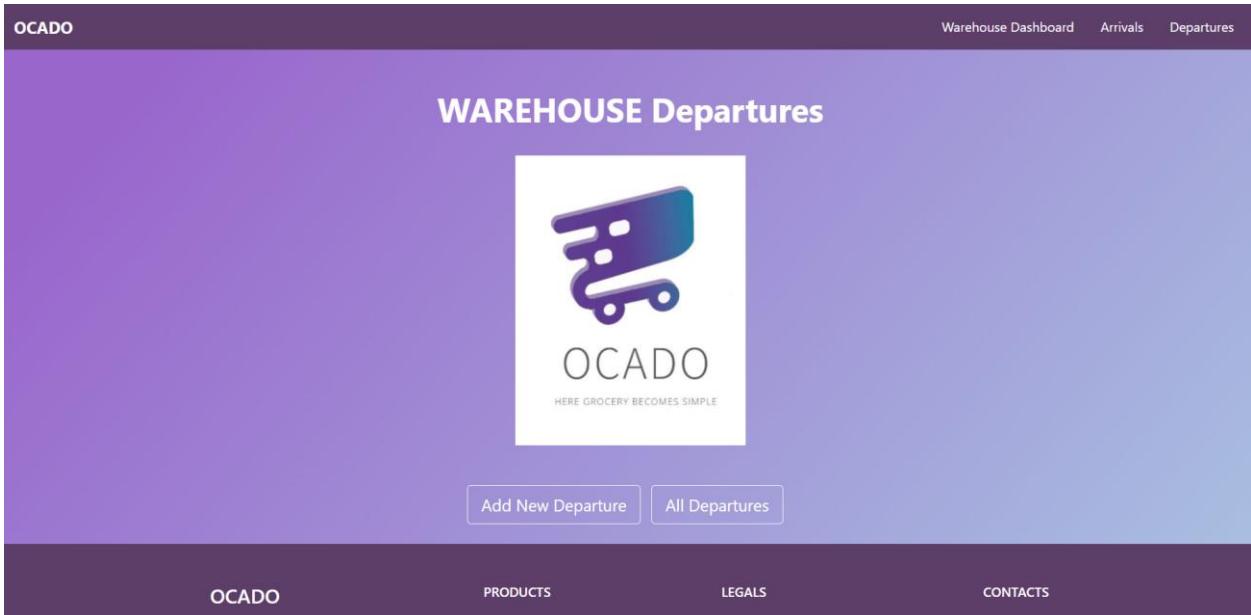
Item Arrivals Detail Report

Report Generated Date - Oct-13-2021



Record ID	Arrival Date	Manufacture	Product Code	Cart ID	Quantity
613eeccbfb7b9cb2864d0de87	2021-09-07	Munchee	PRD577	CRT067	455
6140692f8ee2df4c500ce8d3	2021-09-16	little lion	PRD022	CRT466	100
614074938ee2df4c500ce8d9	2021-09-17	Bairah	PRD009	CRT922	300
614074c28ee2df4c500ce8db	2021-09-18	Krest	PRD488	CRT603	1600
6140752c8ee2df4c500ce8de	2021-09-17	Wendys	PRD366	CRT822	1400
6140756c8ee2df4c500ce8e0	2021-09-20	Araliya	PRD144	CRT177	2500

*Figurer 2.2.1 – 5.5 : User Interface – Warehouse Management*



Figurer 2.2.1 – 5.6 : User Interface – Warehouse Management



Figurer 2.2.1 – 5.7 : User Interface – Warehouse Management

The screenshot shows the OCADO Warehouse Management system interface. At the top, there is a navigation bar with links for 'Warehouse Dashboard', 'Arrivals', and 'Departures'. Below this is a search bar labeled 'Search'. The main content area is titled 'All Departures' and contains a table with the following data:

Count	Departure Date	Product Code	Cart ID	Quantity	Driver ID	Action
1	2021-09-23	PRD934	CRT765	450	DRI458	<button>Edit Details</button> <button>Delete Departure</button>
2	2021-09-16	PRD649	CRT855	890	DRI053	<button>Edit Details</button> <button>Delete Departure</button>
3	2021-09-19	PRD488	CRT563	600	DRI544	<button>Edit Details</button> <button>Delete Departure</button>
4	2021-09-21	PRD357	CRT799	850	DRI159	<button>Edit Details</button> <button>Delete Departure</button>
5	2021-09-22	PRD139	CRT317	1000	DRI911	<button>Edit Details</button> <button>Delete Departure</button>
6	2021-09-23	PRD824	CRT546	650	DRI664	<button>Edit Details</button> <button>Delete Departure</button>
7	2021-10-21	PRD006	CRT655	104	DRI003	<button>Edit Details</button> <button>Delete Departure</button>
8	2021-09-15	PRD022	CRT466	250	DRI258	<button>Edit Details</button> <button>Delete Departure</button>

At the bottom of the table is a red button labeled 'Generate PDF Here'.

Below the table, there is a footer with links for 'OCADO', 'PRODUCTS', 'LEGALS', and 'CONTACTS'.

Figurer 2.2.1 – 5.8 : User Interface – Warehouse Management

The screenshot shows the OCADO Warehouse Management system interface. At the top, there is a navigation bar with links for 'Warehouse Dashboard', 'Arrivals', and 'Departures'. Below this is a title 'Edit Departure'. The main content area contains form fields for editing departure details:

- Cart ID: CRT765
- Product Code: PRD934
- Departure Date: 09/23/2021
- Quantity: 450
- Driver ID: DRI458

At the bottom of the form is a blue 'Update' button.

Below the form, there is a footer with links for 'OCADO', 'PRODUCTS', 'LEGALS', and 'CONTACTS'.

The 'OCADO' section contains a welcome message: "Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!"

The 'PRODUCTS' section includes links for 'Trending', 'My Account', 'Vendors', and 'Brands'.

The 'LEGALS' section includes links for 'Licences', 'Refund Policy', 'About us', and 'Contact Us'.

The 'CONTACTS' section includes links for 'Ward Place, Colombo 07', 'ocado@gmail.com', '+ 94 112685569', and '+ 94 112685570'.

Figurer 2.2.1 – 5.9 : User Interface – Warehouse Management

# OCADO Warehouse

Warehouse Department

Item Departures Detail Report

Report Generated Date - Oct-13-2021



Record ID	Departure Date	Product Code	Cart ID	Quantity	Driver ID
614009e975b35139d82a84da	2021-09-23	PRD934	CRT765	450	DRI458
61407cc1851a2d4f3cb77cba	2021-09-16	PRD649	CRT855	890	DRI053
61407d05851a2d4f3cb77cbc	2021-09-19	PRD488	CRT563	600	DRI544
61407e0a6822582ed4b2a522	2021-09-21	PRD357	CRT799	850	DRI159
61407e2d6822582ed4b2a524	2021-09-22	PRD139	CRT317	1000	DRI911
61407e4d6822582ed4b2a526	2021-09-23	PRD824	CRT546	650	DRI664
61543ba6a7f5df3974442cf9	2021-10-21	PRD006	CRT655	104	DRI003
6163fb540090fb46b8f9dfa4	2021-09-15	PRD022	CRT466	250	DRI258

Figurer 2.2.1 – 5.10 : User Interface – Warehouse Management

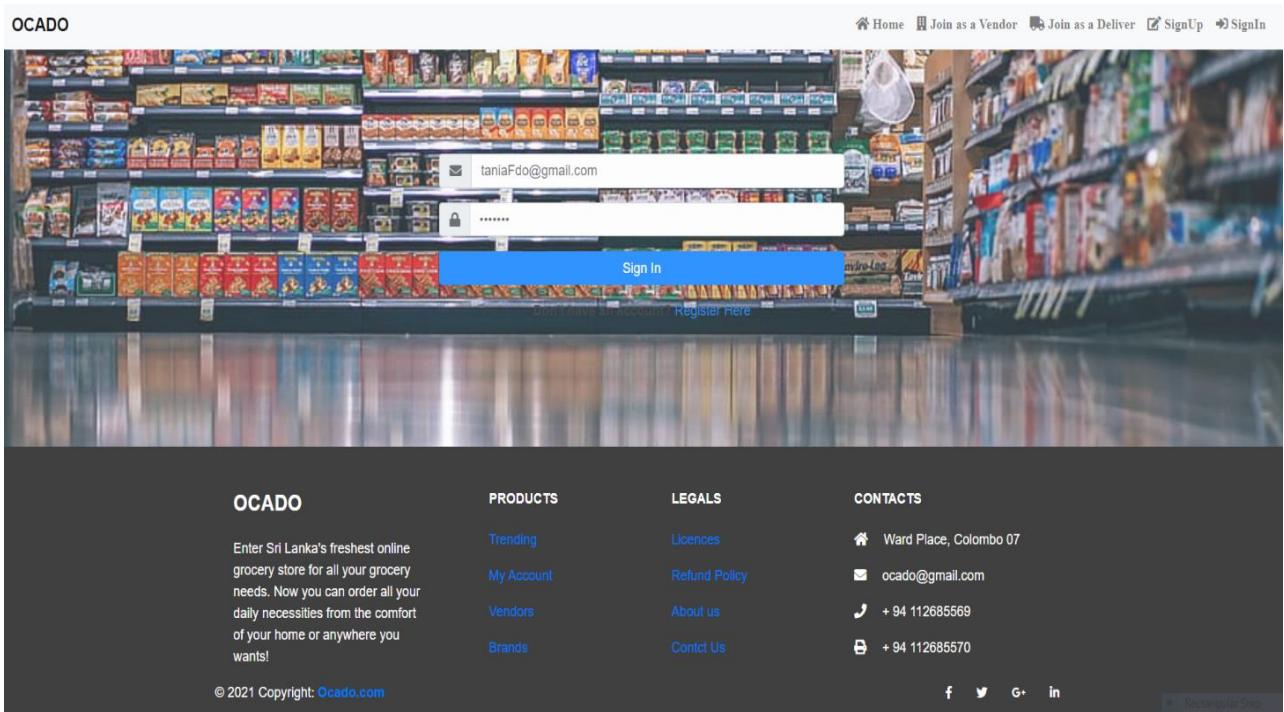
## Buyer Management

The screenshot shows the OCADO homepage. At the top, there's a navigation bar with links for Home, Join as a Vendor, Join as a Deliver, SignUp, and SignIn. Below the navigation is a banner with the text "Top-rated quality at price you love !!!" and the OCADO logo. The main content area has four columns: "OCADO" (with a brief description), "PRODUCTS" (listing Trending, My Account, Vendors, and Brands), "LEGALS" (listing Licences, Refund Policy, About us, and Contact Us), and "CONTACTS" (listing Ward Place, Colombo 07, ocado@gmail.com, +94 112685569, and +94 112685570). At the bottom, there's a copyright notice for 2021 and social media links for Facebook, Twitter, Google+, and LinkedIn.

Figurer 2.2.1 – 6.0 : User Interface – Buyer Management

The screenshot shows the OCADO registration form. The title "Registration Form" is centered above the input fields. There are ten input fields with icons: a person icon for "Tania", another person icon for "Fernando", a barcode icon for "B0059", a location pin icon for "Colombo 07", a phone icon for "0717739277", an envelope icon for "taniafdo@gmail.com", a person icon for "TaniaFdo", a lock icon for the first password, and another lock icon for the second password. Below the fields is a blue "Sign Up" button. At the bottom, there's a link "Have an account? Log In".

Figurer 2.2.1 – 6.1 : User Interface – Buyer Management



*Figurer 2.2.1 – 6.2 : User Interface – Buyer Management*

Price:	Rs 600
Status:	In Stock
Qty	1 1 (selected) 2 3
Add To Cart	

**OCADO**

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

**PRODUCTS**

- Trending
- My Account
- Vendors
- Brands

**LEGALS**

- Licences
- Refund Policy
- About us
- Contact Us

**CONTACTS**

- Ward Place, Colombo 07
- ocado@gmail.com
- +94 112685569
- +94 112685570

*Figurer 2.2.1 – 6.3 : User Interface – Buyer Management*

## Shopping Cart

Your Cart Is Empty [Go Back](#)

**Subtotal (0) items**

Rs.0.00

**Proceed To Checkout**

### OCADO

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

### PRODUCTS

[Trending](#)  
[My Account](#)  
[Vendors](#)  
[Brands](#)

### LEGALS

[Licences](#)  
[Refund Policy](#)  
[About us](#)  
[Contact Us](#)

### CONTACTS

Ward Place, Colombo 07  
 ocado@gmail.com  
 +94 112685569  
 +94 112685570

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Powered by Sitecore

*Figurer 2.2.1 – 6.4 : User Interface – Buyer Management*

## Shopping Cart



Strawberry

Rs 600

2



Bell pepper

Rs.150

4



Lysol Cleaners

Rs 200

3

1
2
3
4
5

**Subtotal (9) items**

Rs.2400.00

**Proceed To Checkout**

### OCADO

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

### PRODUCTS

[Trending](#)  
[My Account](#)  
[Vendors](#)  
[Brands](#)

### LEGALS

[Licences](#)  
[Refund Policy](#)  
[About us](#)  
[Contact Us](#)

### CONTACTS

Ward Place, Colombo 07  
 ocado@gmail.com  
 +94 112685569  
 +94 112685570

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*Figurer 2.2.1 – 6.5 : User Interface – Buyer Management*

OCADO

Home Join as a Vendor Join as a Deliver SignUp SignIn

Generate Report

### All Buyer Information

#	FirstName	LastName	BusinessId	Location	TelNumber	Email	Username	Action
1	Kamal	Gamage	B0069	Colombo 05	123456789	kamal12@gmail.com	Kamal123	DELETE
2	Ihavi	Hettiarachchi	A0089	Kaduwela	772345142	ihavi09@gmail.com	Ihavi099	DELETE
3	Gagan	Herath	C0091	Sri Jayawardenepura	772190987	gagan99@gmail.com	Gagan99	DELETE
4	Malan	Silva	D0023	Chilaw	762345678	malan@gmail.com	Malan08	DELETE
5	Tania	Fernando	B0059	Colombo 07	717739277	taniaido@gmail.com	Taniafdo	DELETE

Search

OCADO PRODUCTS LEGALS CONTACTS

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

Trending Licences Ward Place, Colombo 07  
[My Account](#) Refund Policy ocado@gmail.com  
[Vendors](#) About us + 94 112685569  
[Brands](#) Contact Us + 94 112685570

Figurer 2.2.1 – 6.6 : User Interface – Buyer Management

OCADO Home Join as a Vendor Join as a Deliver SignUp SignIn

### Kamal Gamage

BusinessId	50069
Location	Colombo 05
TelNumber	123456789
Email	kamal12@gmail.com
Username	Kamal123

OCADO PRODUCTS LEGALS CONTACTS

Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

Trending Licences Ward Place, Colombo 07  
[My Account](#) Refund Policy ocado@gmail.com  
[Vendors](#) About us + 94 112685569  
[Brands](#) Contact Us + 94 112685570

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Figurer 2.2.1 – 6.7 : User Interface – Buyer Management

The screenshot shows the OCADO Buyer Management interface. At the top, there are navigation links: Product, Add Cart, Return, Refund, and Logout. Below the header is a search bar with the placeholder 'th'. The main content area is titled 'All Buyer Information' and displays a table of buyer details. The table has columns: #, FirstName, LastName, BusinessId, Location, TelNumber, Email, Username, and Action. Two rows of data are shown:

#	FirstName	LastName	BusinessId	Location	TelNumber	Email	Username	Action
1	Thavi	Hettiarachchi	A0089	Kaduwela	772345142	thavi99@gmail.com	Thaviya99	DELETE
2	Gagan	Herath	C0091	Seeduwa	772190987	gag99@gmail.com	Gaga99	DELETE

At the bottom of the page, there are footer links for OCADO, PRODUCTS, LEGALS, and CONTACTS, along with social media icons for Facebook, Twitter, Google+, and LinkedIn.

Figurer 2.2.1 – 6.8 : User Interface – Buyer Management

The screenshot shows a PDF document titled 'Buyer Details Report (1).pdf'. The document contains a table of buyer details, which is identical to the one shown in the previous screenshot. The table has columns: User ID, First Name, Last Name, Business ID, Location, Contact No, Email, and Username. The data is the same as in the previous screenshot.

User ID	First Name	Last Name	Business ID	Location	Contact No	Email	Username
6163a20d2639d6c4909ea2c4	Kamal	Gamage	B0069	Colombo 05	123456789	kamal12@gmail.com	Kamal123
6163df16598e9b5cb820541c	Thavi	Hettiarachchi	A0089	Kaduwela	772345142	thavi99@gmail.com	Thaviya99
6163df3598e9b5cb8205425	Gagan	Herath	C0091	Seeduwa	772190987	gag99@gmail.com	Gaga99
6163e059598e9b5cb820542a	Malan	Silva	D0023	Chilaw	782345678	malan@gmail.com	Malan98
616570a158cdde4ac5a212fa	Tania	Fernando	B0059	Colombo 07	717739277	taniafdo@gmail.com	TaniaFdo
6165770b1c489ad1e459671	Binini	Amarasinghe	E0021	Galle	761230987	bih99@gmail.com	BihAmare
616577751c489ad1e459674	Ann	Perera	F0090	Wennappuwa	765350122	ann98@gmail.com	AnnPerera

Figurer 2.2.1 – 6.9 : User Interface – Buyer Management

## Payment and Financial Management

The screenshot shows the OCADO Payment Getaway interface. At the top, there's a navigation bar with links for Home, Product, Add Cart, Return, User Account, and Logout. Below the navigation is a header bar with the title "Payment Getaway" and a link to "Your Addresses". A search bar labeled "Search Here" is positioned on the right. Underneath, a table lists four shipping addresses:

#	Shipping Address	City	Phone Number	Postal Code	Country	Action	Action
1	328, Peradeniya, Jaffna	Jaffna	0713455887	12340	Sri Lanka	<button>Edit</button>	<button>Delete</button>
2	322, Nailur, Jaffna	Jaffna	0713455111	12223	Sri Lanka	<button>Edit</button>	<button>Delete</button>
3	552, Chatham Street, Colombo	Colombo	0713422887	12351	Sri Lanka	<button>Edit</button>	<button>Delete</button>
4	abc abcdwedd	abcd	0711566751	12323	ssdsdfs	<button>Edit</button>	<button>Delete</button>

A green button labeled "Create New Address" is located at the bottom left of the address list area.

At the bottom of the page, there's a footer with the OCADO logo, a brief description of the store, and links to Products, Legal sections (Trending, Licences, My Account, Refund Policy), and Contacts (Ward Place, Colombo 07, email: ocado@gmail.com). The footer also includes a Windows taskbar with various pinned icons and system status information.

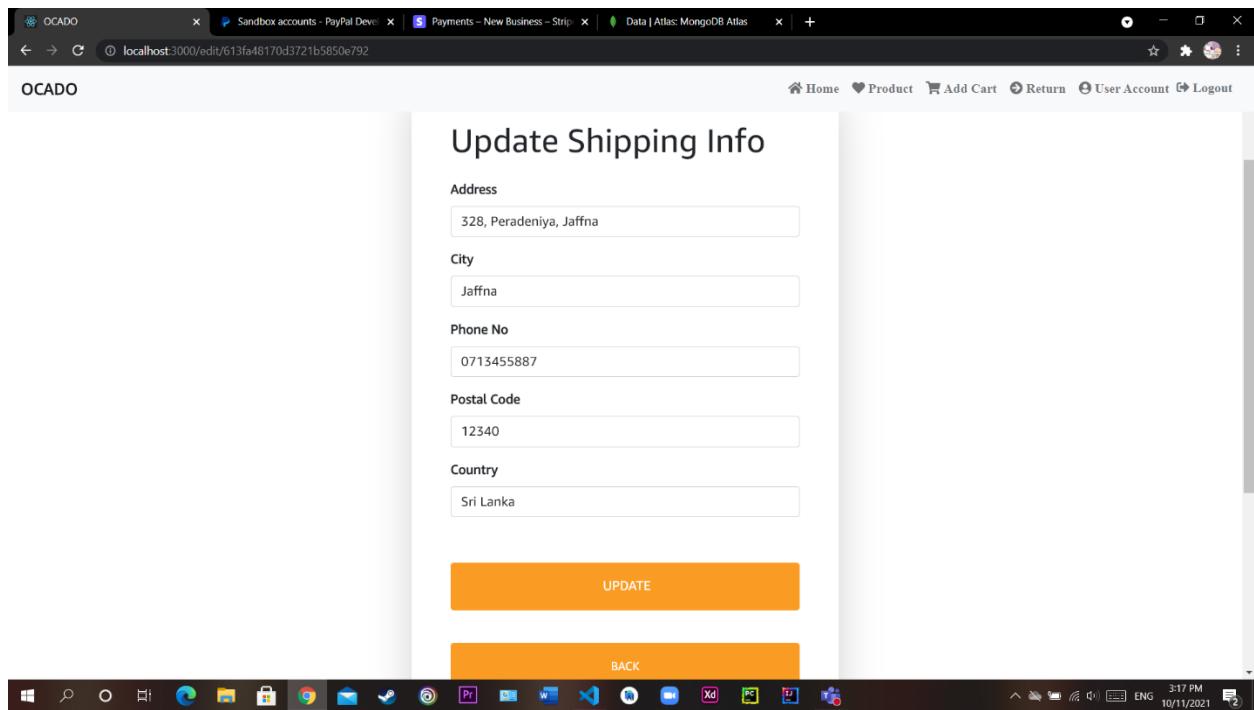
Figurer 2.2.1 – 7.0 : User Interface – Payment Management

The screenshot shows a modal dialog titled "Shipping Info" for adding a new address. The form contains fields for Address, City, Phone No, Postal Code, and Country, each with a corresponding input field. At the bottom of the form is a large orange "SAVE ADDRESS" button.

At the top of the page, there's a navigation bar with links for Home, Product, Add Cart, Return, User Account, and Logout. Below the navigation is a header bar with the title "Payment Getaway" and a link to "Your Addresses". A search bar labeled "Search Here" is positioned on the right. The main content area is currently empty, showing the "Shipping Info" form.

At the bottom of the page, there's a footer with the OCADO logo, a brief description of the store, and links to Products, Legal sections (Trending, Licences, My Account, Refund Policy), and Contacts (Ward Place, Colombo 07, email: ocado@gmail.com). The footer also includes a Windows taskbar with various pinned icons and system status information.

Figurer 2.2.1 – 7.1 : User Interface – Payment Management



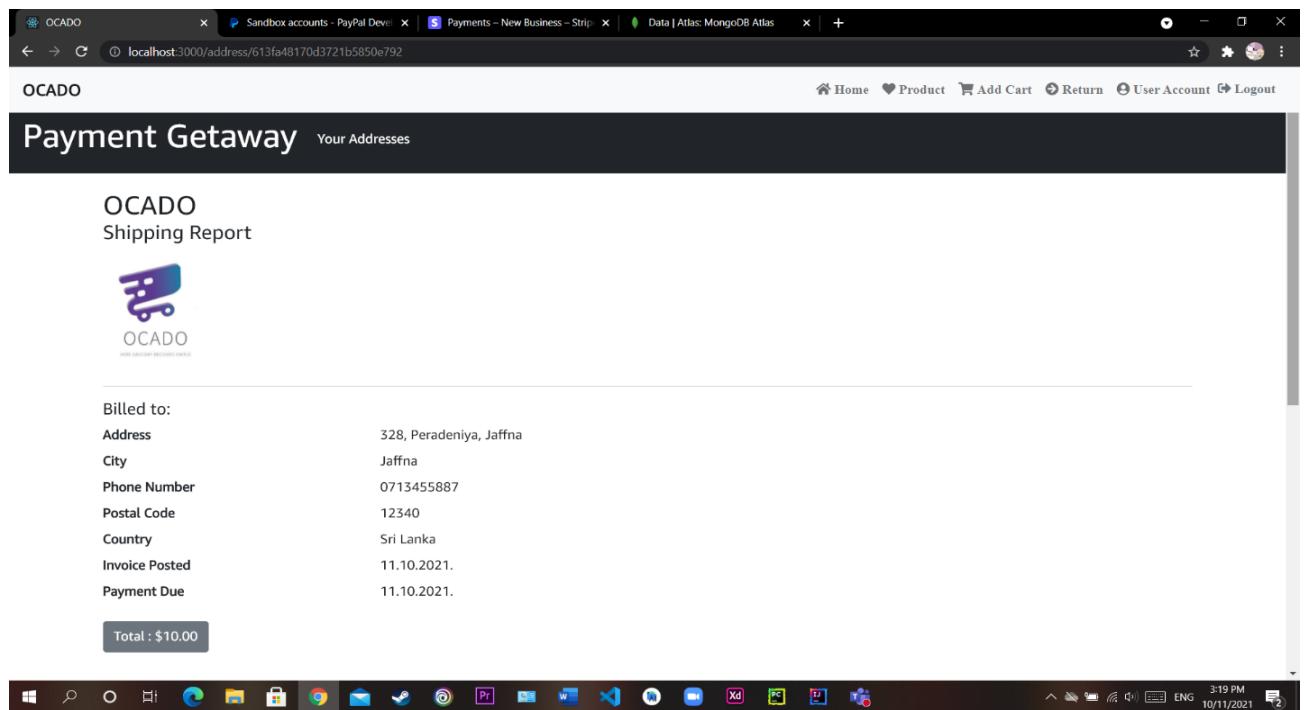
*Figurer 2.2.1 – 7.2 : User Interface – Payment Management*

The screenshot shows a web browser window with the URL 'localhost:3000/homeaddress'. The page title is 'Payment Getaway' and there is a link to 'Your Addresses'. A yellow success message box says 'Shipment deleted successfully!'. Below this, there is a table of shipping addresses:

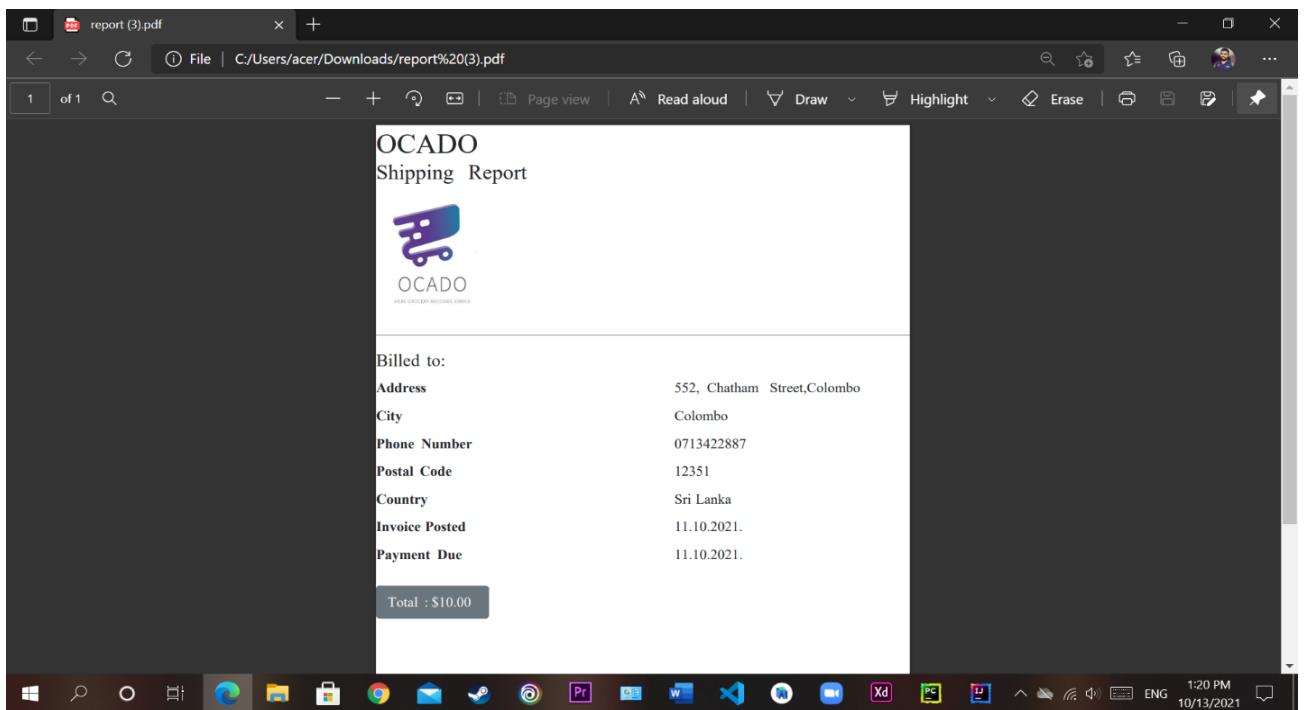
#	Shipping Address	City	Phone Number	Postal Code	Country	Actions
1	328, Peradeniya, Jaffna	Jaffna	0713455887	12340	Sri Lanka	<button>Edit</button> <button>Delete</button>
2	322, Nallur, Jaffna	Jaffna	0713455111	12223	Sri Lanka	<button>Edit</button> <button>Delete</button>
3	552, Chatham Street, Colombo	Colombo	0713422887	12351	Sri Lanka	<button>Edit</button> <button>Delete</button>

A green button labeled 'Create New Address' is located at the bottom left. The footer of the page includes links for 'OCADO', 'PRODUCTS', 'LEGALS', and 'CONTACTS'.

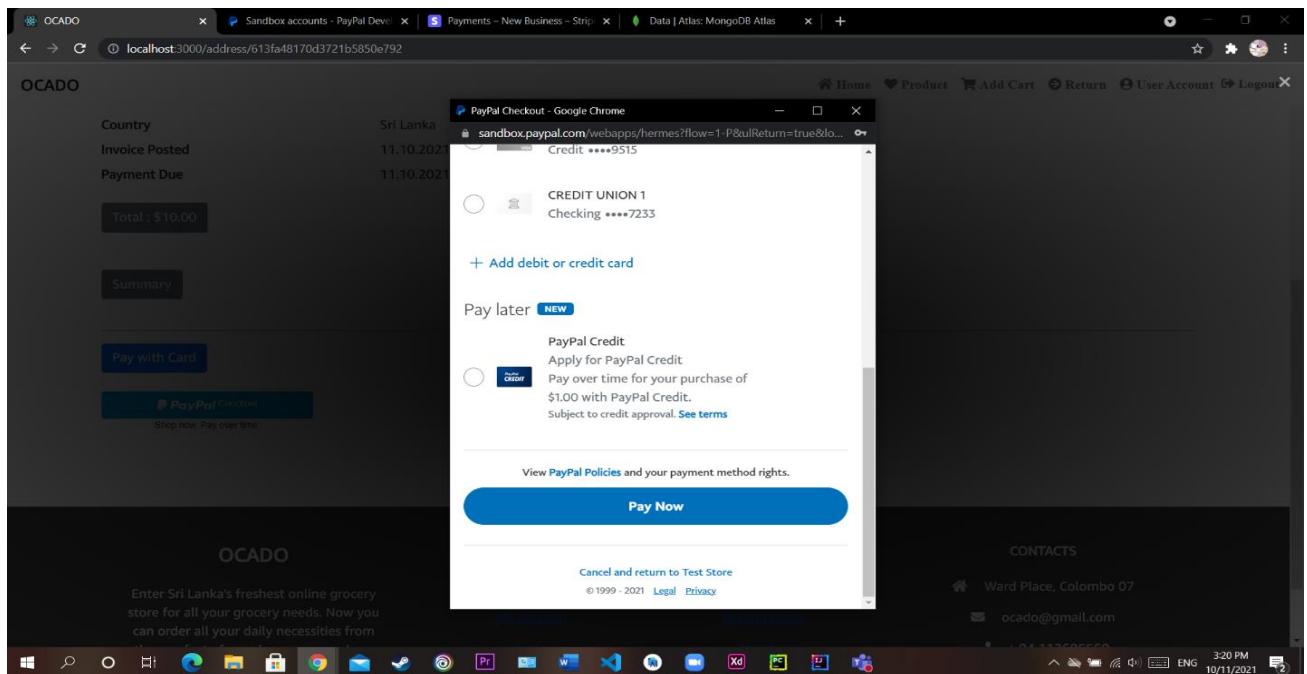
*Figurer 2.2.1 – 7.3 : User Interface – Payment Management*



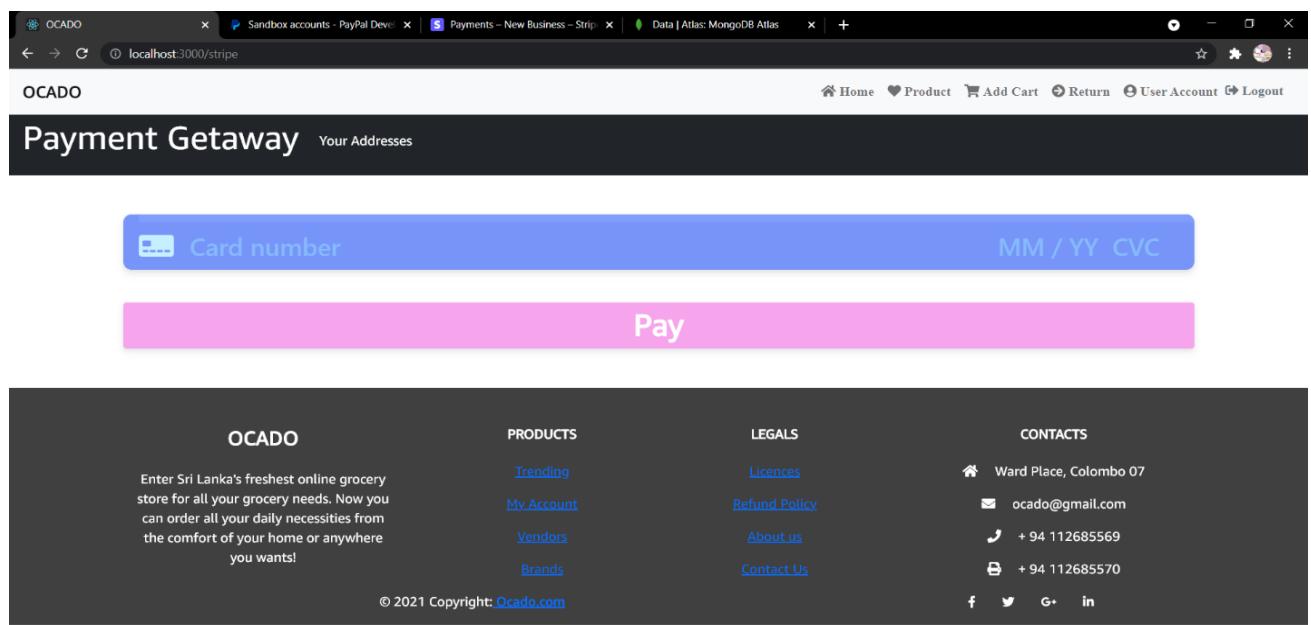
Figurer 2.2.1 – 7.4 : User Interface – Payment Management



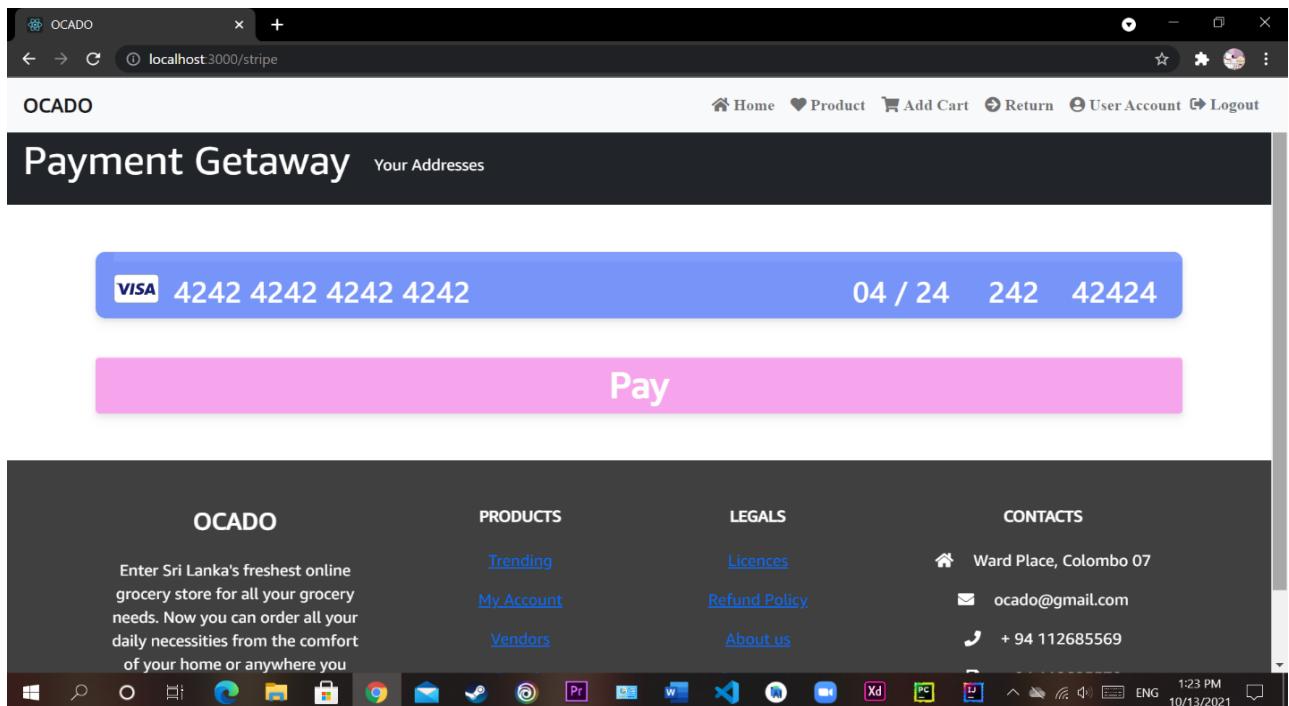
Figurer 2.2.1 – 7.5 : User Interface – Payment Management



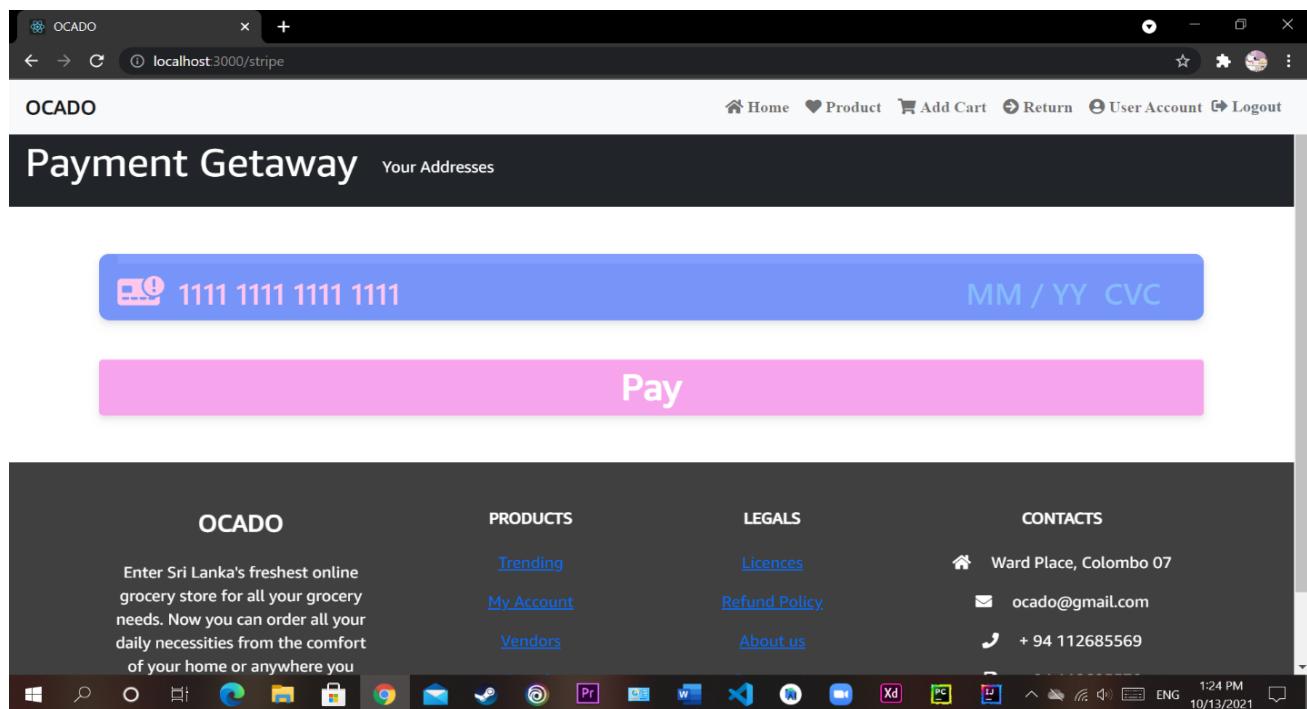
*Figurer 2.2.1 – 7.6 : User Interface – Payment Management*



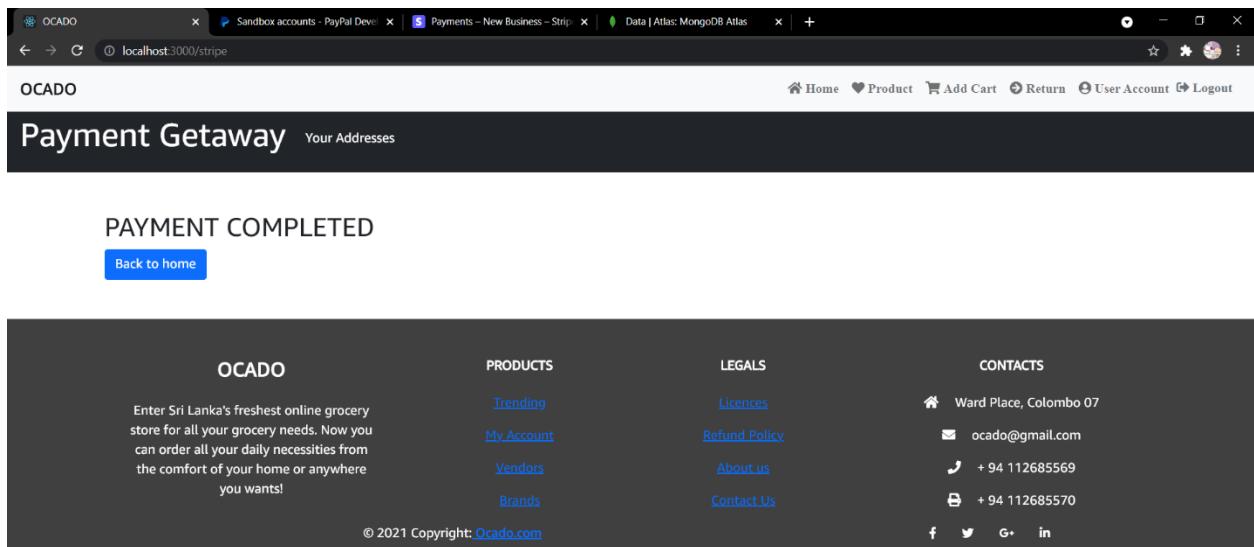
*Figurer 2.2.1 – 7.7 : User Interface – Payment Management*



Figurer 2.2.1 – 7.8 : User Interface – Payment Management



Figurer 2.2.1 – 7.9 : User Interface – Payment Management

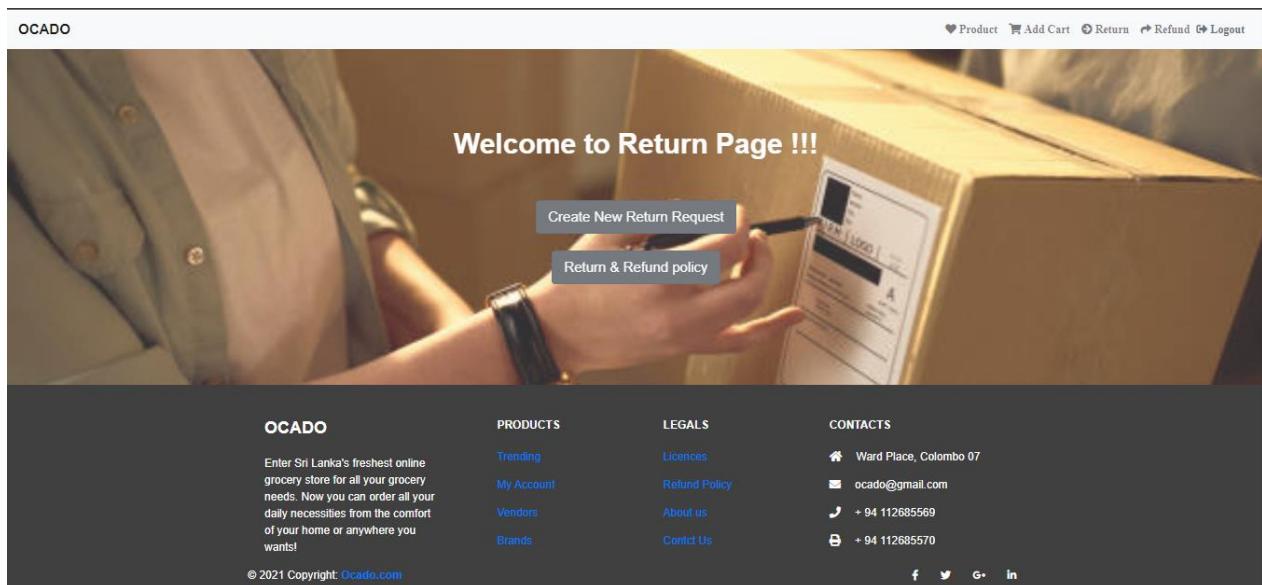


*Figurer 2.2.1 – 7.10 : User Interface – Payment Management*

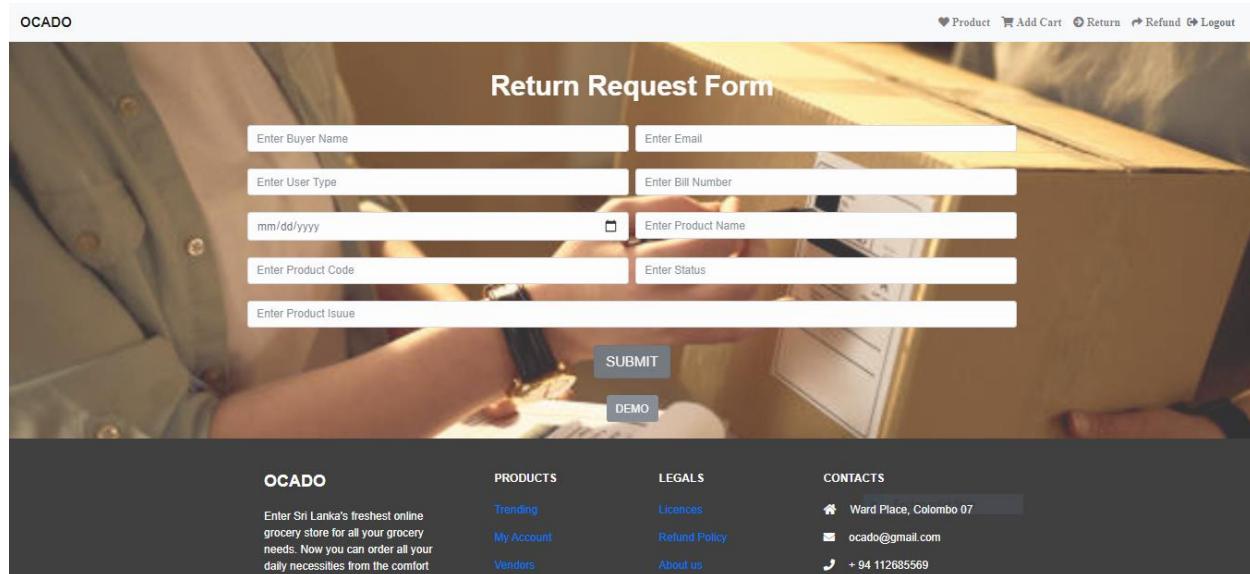
The screenshot shows a web browser window for stripe.com with the URL 'dashboard.stripe.com/test/payments?status%5B%5D=successful'. The interface includes a navigation bar with 'New Business', 'Activate account', 'Search...', 'Create', 'Help', 'Connect', 'More', 'TEST DATA', 'Home', 'Payments' (selected), 'Balances', 'Customers', 'Products', 'Reports', 'Connect', 'More', 'Developers', and 'Test mode'. On the left, a sidebar lists 'Payments' with options like 'All payments', 'Reviews', 'Disputes', 'All transactions', 'Invoices', 'Subscriptions', 'Quotes', and 'Payment links'. The main content area is titled 'Payments' and shows a table of transaction details. The table has columns for 'AMOUNT', 'DESCRIPTION', 'CUSTOMER', and 'DATE'. There are 6 results listed, all showing a \$10.00 USD amount, a 'Succeeded' status with a green checkmark, and the customer 'OCADO COMPANY'. The last transaction is from Oct 11, 3:23 PM. At the bottom of the table are buttons for 'Filter', 'Export', and '+ Create payment'. The system tray at the bottom shows the date as 10/13/2021 and the time as 1:27 PM.

*Figurer 2.2.1 – 7.11 : User Interface – Payment Management*

## Return and Refund Management



Figurer 2.2.1 – 8.0 : User Interface – Return Management



Figurer 2.2.1 – 8.1 : User Interface – Return Management

**Return Requests Details**

Index	Name	Email	User Type	Bill	Delivered date	Product Name	Product Code	Reason	Status	Action
1	Nimal	nimal12@gmail.com	Owner	65433	2021-10-05	soap	7612	Wrong Items	Opened	<button>UPDATE</button>
2	Kamal	kamal12@gmail.com	Owner	6758	2021-10-05	Bellpeper	8890	Item Damaged	Not Opened	<button>UPDATE</button>

**OCADO**  
Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you want!

**PRODUCTS**  
Trending  
My Account  
Vendors  
Brands

**LEGALS**  
Licences  
Refund Policy  
About us  
Contact Us

**CONTACTS**  
Ward Place, Colombo 07  
ocado@gmail.com  
+ 94 112685569  
+ 94 112685570

Figurer 2.2.1 – 8.2 : User Interface – Return Management

**Update Request Details**

Nimal	nimal12@gmail.com
Owner	65433
10/05/2021	soap
7612	Opened
Wrong Items	

**OCADO**  
Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you want!

**PRODUCTS**  
Trending  
My Account  
Vendors  
Brands

**LEGALS**  
Licences  
Refund Policy  
About us  
Contact Us

**CONTACTS**  
Ward Place, Colombo 07  
ocado@gmail.com  
+ 94 112685569  
+ 94 112685570

Figurer 2.2.1 – 8.3 : User Interface – Return Management

**Return Requests Details**

Index	Name	Email	User Type	Bill	Delivered date	Product Name	Product Code	Reason	Status	Action
1	Mishan	mishan@gmail.com	Owner	98765	2021-10-22	Araliya	4432	Delay deliver	Not Opened	<input checked="" type="checkbox"/> UPDATE <input type="button" value="DELETE"/>

**OCADO**  
Enter Sri Lanka's freshest online

**PRODUCTS**  
Trending

**LEGALS**  
Licences

**CONTACTS**  
Ward Place, Colombo 07

Figurer 2.2.1 – 8.4 : User Interface – Return Management

**Refund Form**

Move to All Return Details

Provide Refund

DEMO

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Trending  
My Account  
Vendors  
Brands

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Licences  
Refund Policy  
About us  
Contact Us

**CONTACTS**  
Ward Place, Colombo 07  
ocado@gmail.com  
+94 112685569  
+94 112685570

Figurer 2.2.1 – 8.5 : User Interface – Return Management

The screenshot shows a table titled "All Refund Records" with two rows of data. The columns are: Index, Email, Amount, Request Date, Bank Name, Branch, Account No, and Action. Row 1: Index 1, Email paba12@gmail.com, Amount 50000.00, Request Date 2021-10-23, Bank Name NSB, Branch Malabe, Account No 545455444, Action UPDATE, DELETE. Row 2: Index 2, Email nimal12@gmail.com, Amount 10000.00, Request Date 2021-10-05, Bank Name Sampath, Branch Galle, Account No 2345678906645378, Action UPDATE, DELETE. The background features a blurred image of a hand holding a credit card.

Index	Email	Amount	Request Date	Bank Name	Branch	Account No	Action
1	paba12@gmail.com	50000.00	2021-10-23	NSB	Malabe	545455444	UPDATE DELETE
2	nimal12@gmail.com	10000.00	2021-10-05	Sampath	Galle	2345678906645378	UPDATE DELETE

**OCADO**  
Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

**PRODUCTS**  
Trending, My Account, Vendors, Brands

**LEGALS**  
Licences, Refund Policy, About us, Contct Us

**CONTACTS**  
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Figurer 2.2.1 – 8.6 : User Interface – Return Management

The screenshot shows a form titled "Update Refund Details" with five input fields: Enter Buyer Email, Enter Refund Amount, mm/dd/yyyy, Enter Bank Name, and Enter Bank Branch. Below the form is a blurred image of a hand holding a credit card with an "UPDATE" button.

**OCADO**  
Enter Sri Lanka's freshest online grocery store for all your grocery needs. Now you can order all your daily necessities from the comfort of your home or anywhere you wants!

**PRODUCTS**  
Trending, My Account, Vendors, Brands

**LEGALS**  
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**CONTACTS**  
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Figurer 2.2.1 – 8.7 : User Interface – Return Management

*Figurer 2.2.1 – 8.8 : User Interface – Return Management*

*Figurer 2.2.1 – 8.9 : User Interface – Return Management*

User ID	Buyer name	Buyer Email	User type	Bill Number	Deliver Date	Product Name	Product Code	Return status
61639f2a2639d6c4909ea286	Nimal	nimal12@gmail.com	Owner	65433	2021-10-05	soap	7612	Wrong Items
6165698f05c94fb52e01bb84	Kamal	kamal12@gmail.com	Owner	6758	2021-10-05	Ballpaper	8890	Item Damaged
6165662a8b7ab9209aa00e73	Maleesha	maleesha99@gmail.com	Owner	6758	2021-10-01	Anchor	2222	Wrong Items
616566e6b7ab9209aa00e76	Thavishi	thavi@gmail.com	Owner	1111	2021-10-02	Highland	4453	Delay deliver
616566ea0Bb7ab9209aa00e79	Gagani	gaga99@gmail.com	Owner	7654	2021-10-03	Detole	3459	Wrong Items
61657b98b7ab9209aa00e88	Amandi	amarra22@gmail.com	Owner	2258	2021-10-02	Safe care	3333	Wrong Items

## *Figurer 2.2.1 – 8.10 : User Interface – Return Management*

	Refund Details Report.pdf	<span>1 / 1</span>	<span>-</span>	100%	<span>+</span>			
<b>OCADO Company</b>								
<b>ocado@gmail.com</b>								
Ward Place, Colombo 07								
Tel No : + 94 112685569 / + 94 112685570								
Refund Details Report								
<b>Report Generated Date - Oct-12-2021</b>								
User ID	Buyer Email	Refund Amount	Request Date	Bank Name	Branch	Acc No		
616561147d49bdbb94b8045	nimal12@gmail.com	10000.00	2021-10-05	Sampath	Galle	234567890645378		
61656c9187ab9209aa00e5c	malee99@gmail.com	10000.00	2021-10-05	Commercial	Wenappuwa	234567890645378		
61656cc28b7ab9209aa00e63	thavi@gmail.com	60000.00	2021-10-05	BOC	Malabe	334343456789765		
61656d0c8b7ab9209aa00e66	gaga99@gmail.com	11000.00	2021-10-01	NSB	Gampaha	5654323456789098		
61656d4fb7ab9209aa00e69	mishan96@gmail.com	50000.00	2021-01-10	Nation Trust	Colombo	1234567654567898		
6165775a8b7ab9209aa00e7c	bhil22@gmail.com	70000.00	2021-10-08	BOC	Galle	234567890645378		
616577948b7ab9209aa00e7f	sajini11@gmail.com	45000.00	2021-10-04	Sampath	Hapugala	1234566545678980		
616577d78b7ab9209aa00e82	amara@gmail.com	90000.00	2021-10-05	Nation Trust	Karapitiya	234567890645378		
6165780e8b7ab9209aa00e85	paba34@gmail.com	20000.00	2021-09-10	Sampath	Kandy	34343456787699		

### *Figurer 2.2.1 – 8.11 : User Interface – Return Management*

## 2.3 Implementation

Initially, the implementation phase took place in couple of stages. Primarily, OCADO developers have used draw.io, pencil project and adobeXD to design the user front-end interfaces. Draw.io and starUML were used to create sketches for database connections. Secondly, OCADO developers had to choose a fundamental development framework to proceed. Something common that can be easily comprehended during the testing phase. MERN stack (Mongodb, Express, React, Nodejs) was the main candidate and the team went along with zero hesitations.

- Mongodb – Open-source NoSQL Database
- Express – Back-end framework
- React – Front-end framework
- Node – Back-end runtime environment

Mongo Database played the major role as to store incoming data and Reactjs being the major client-side interface. Some functions required offshore databases for security. Payment and Financial Management system considered necessary to use Stripe developer database and PayPal sandbox to handle the payments via credit/debit cards. Some of the Stripe card validations were embedded into stripe framework. All the functions usually consist of its own validation system, which assists the prevention of data redundancy and errors. Visual Studio Code was the major IDE that the developers utilized for coding, debugging, and version control. Postman was the main API handler. OCADO team has chosen to use git as the integrating, merging and application deploying system. GitHub was the principal hosting provider.

## 2.4 Testing

OCADO testing plan includes fundamental sign in and register validations, email and password validations, button integrations and browser routing, proper database connections, proper responses from databases, and application crashes during deployment. Each function will undergo two data entries and all the major aspects explained above will be tested and examined. Primarily, the testing was done in two occurrences.

- **System Testing**

System testing is done to test the system as a whole. All the routes, models, components, and modules will be tested and examined whether they are working properly.

- **Unit Testing**

Unit testing is done to check the functionality of all the routes, models, and components as an individual entity. During this stage, each function will be tested in a specific environment to examine the vulnerability.

### **3. Conclusion**

OCADO online enterprise product management system is a glorious endeavor to overwhelm the abrupt breakdown of human interactions regarding enterprise business due to the current Covid-19 global pandemic. Business-to-Business venture systems are struggling to handle certain parameters in the pandemic and often lose resources such as hard labor and time. The main objective of this project was to deploy a fully computerized web application to make browsing through significant number of brands, paying for the products without dealing with swarm of errors, a reliable delivery service across the country, highly standardized warehouse system, receptive feedback system and a responsible return and refund policy. Furthermore, the client information and their privacy are extremely protected with the trustworthy administrator panel. The client data are certified before approval with exceptional authentication tools for the safety of both the user and system owners. The Proposed system will function in any environment with the gracious accountability of the team behind the process. Analyzing and acknowledging the rewards of this system is worthwhile to understand the direct influences on productivity.

The OCADO team has covered the following eight functions in this proposed system.

- Supplier Management
- Admin Panel Management
- Delivery Management
- Feedback Management
- Warehouse Management
- Buyer Management
- Payment and Financial Management
- Return and Refund Management

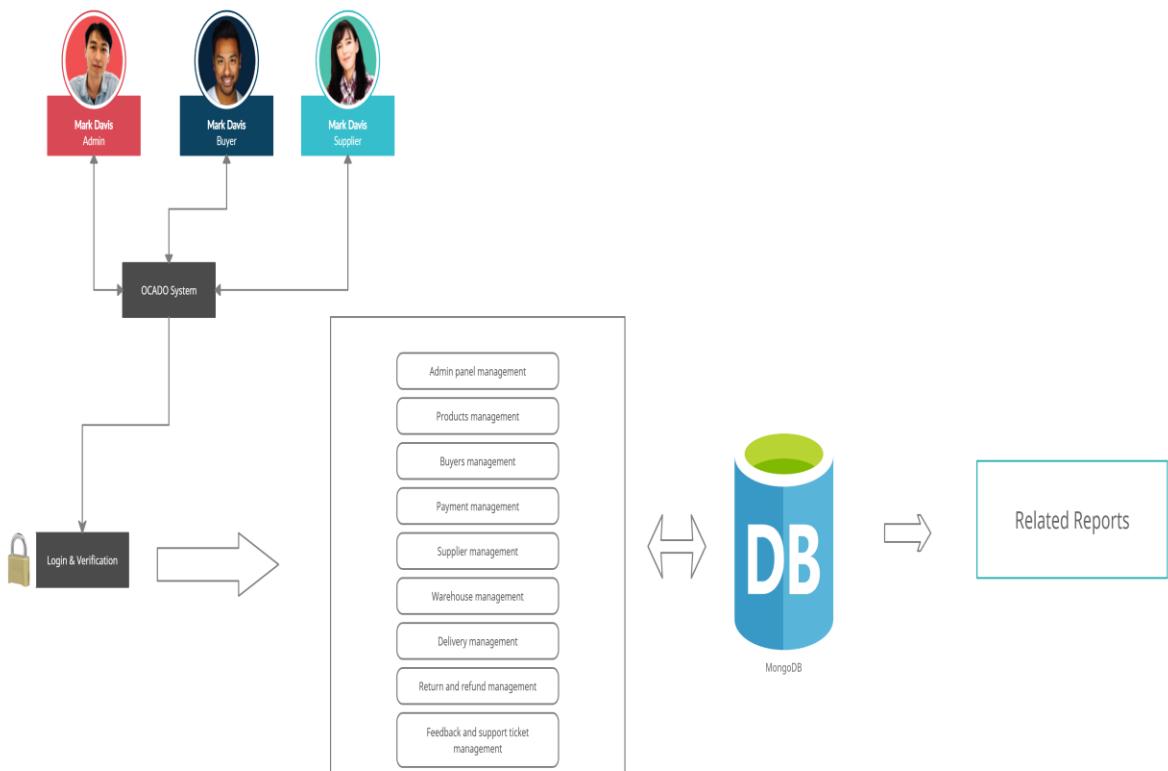
Above tasks were managed by the eight group members with courage and determination even dealing with the challenging times. There were couple of impediments during the system progression phase, which is, some of the key players were not available due to Covid-19 infections. Hence, the system integration and merging processes were heavily shattered. But the bravery and willpower brought the team into the correct path and managed to put together a well-functioning system where all the developer promises, and user expectations meet without skepticism. Client to developer inter-relationship and maneuverability be relevant at the end. Since the technical facilities have been expanding throughout the past couple of decades, so the intended system will involve in contending the market hierarchy. Therefore, the OCADO development team firmly believes that they have delivered something exceptional to assist both client and user contentment up to a terrific degree.

## **4. References**

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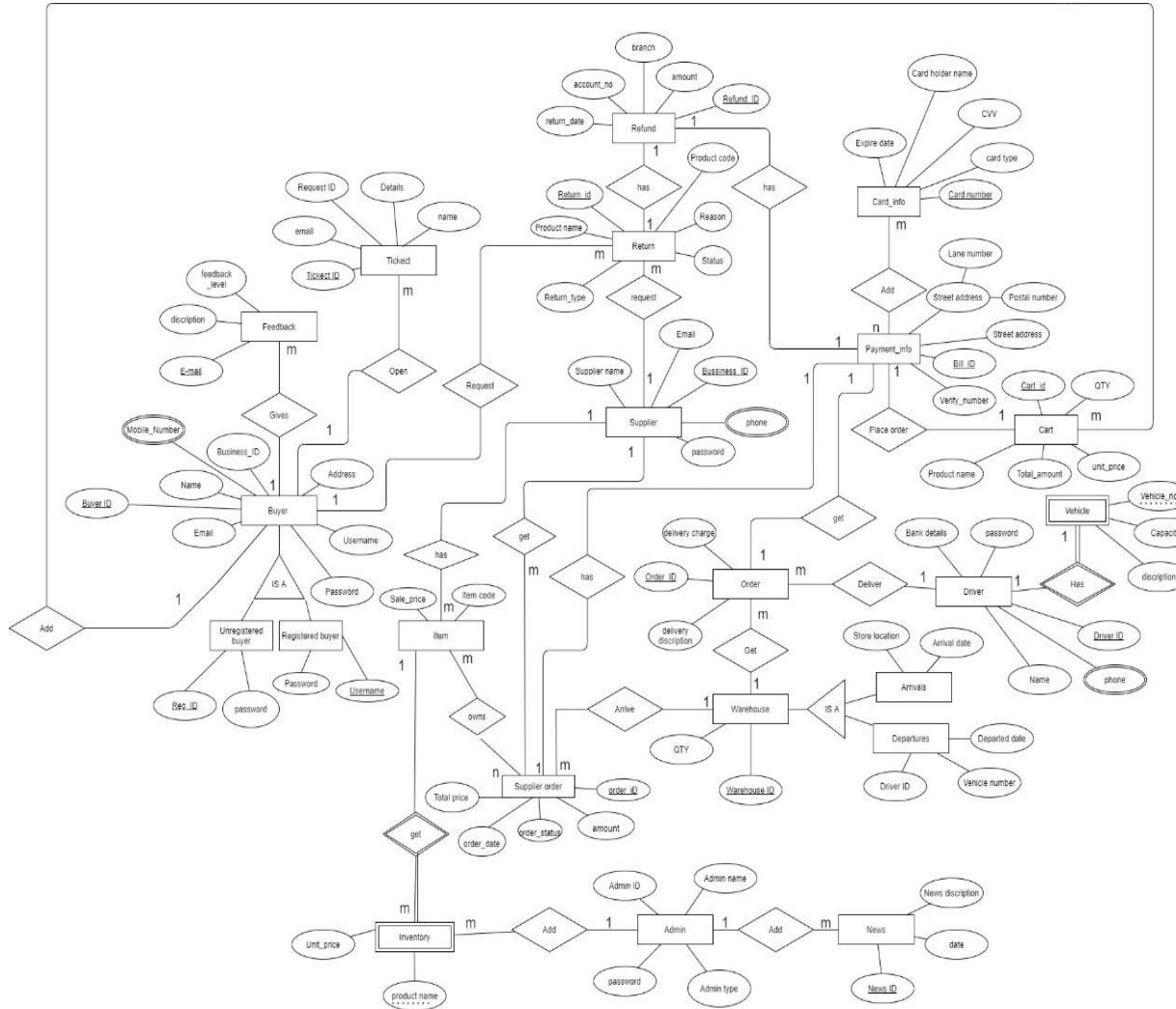
## Appendix A: Design Diagrams

### High Level Diagram



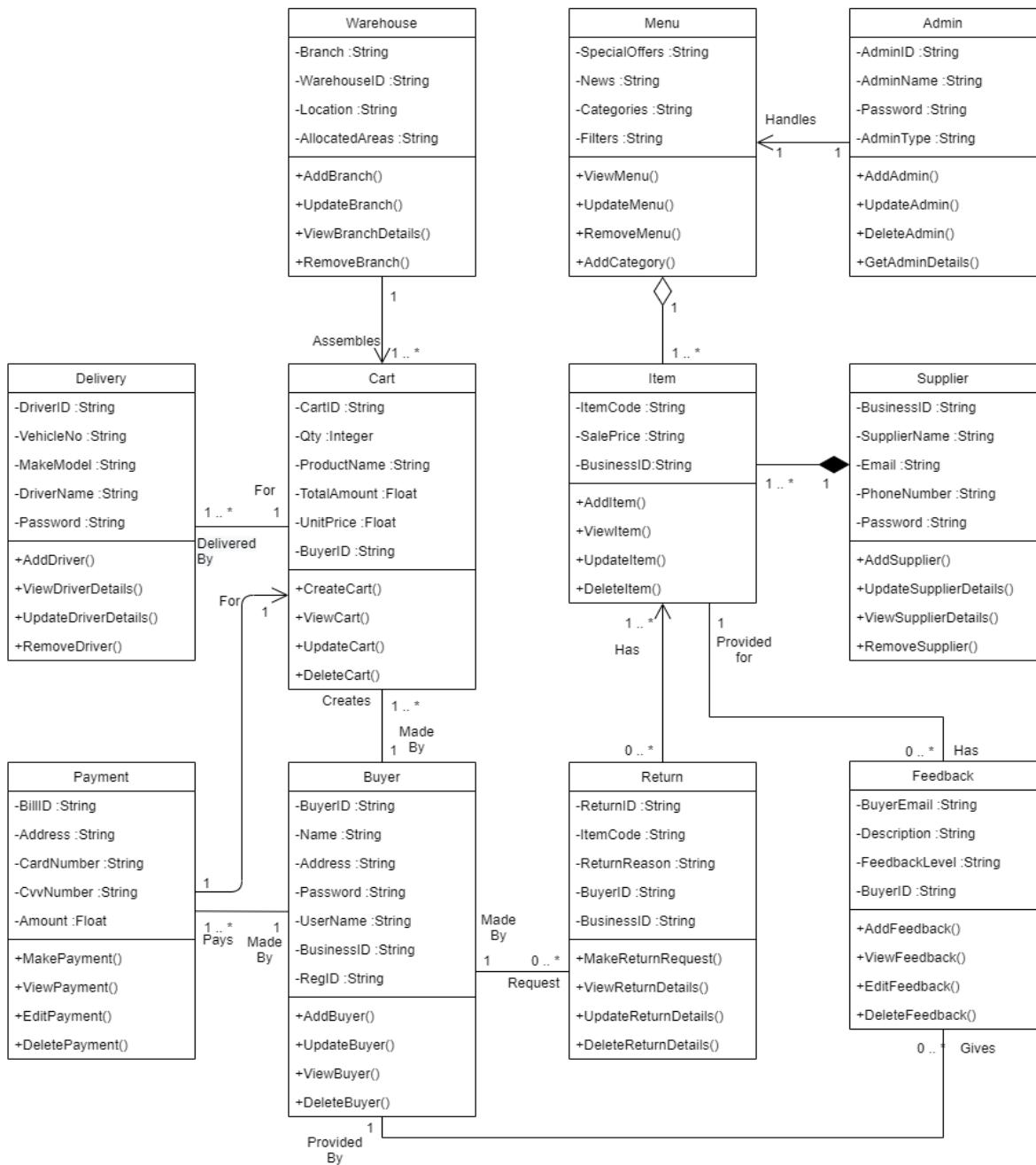
Figurer 2.2 – 1 : High Level Diagram

## ER Diagram



Figurer 2.2 – 2 : ER Diagram

## Class Diagram

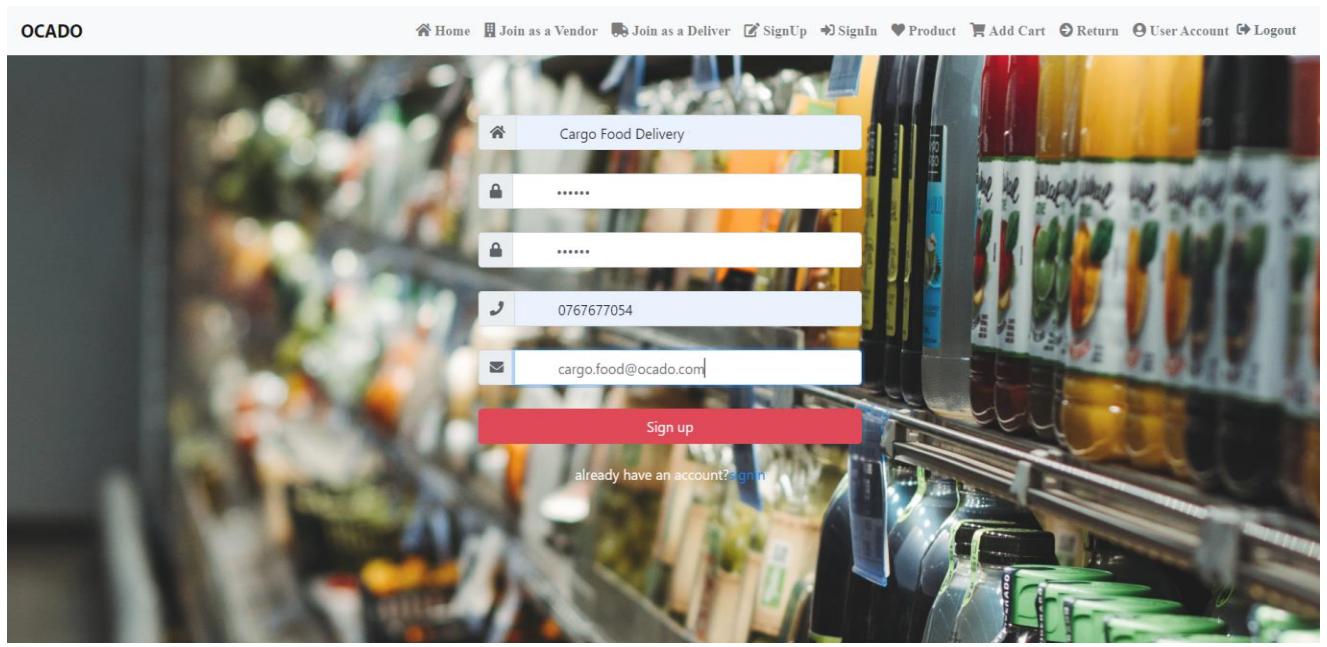


Figurer 2.2 – 3 : Class Diagram

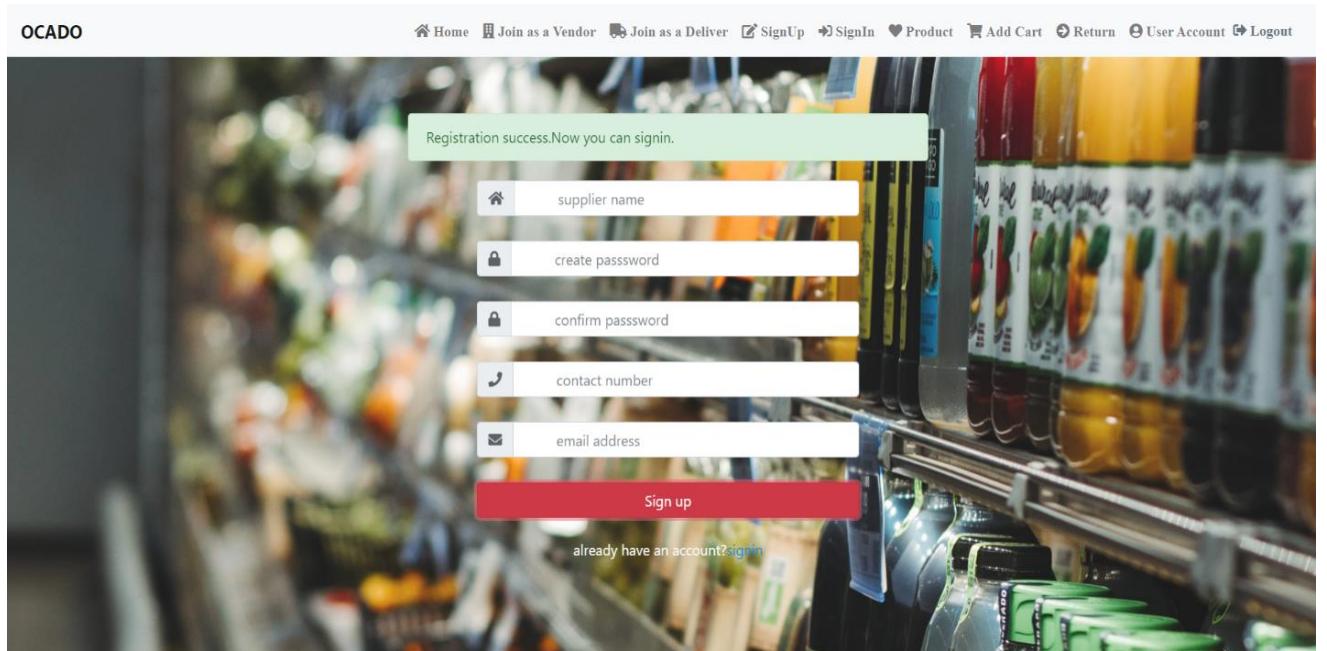
# Appendix B: Test Results

## Supply Management

Registering to the system by filling a signup form and create new user account.



Figurer 2.4 – 1.1.0 : Test Case – Supply Management



Figurer 2.4 – 1.1.1 : Test Case – Supply Management

<b>Test ID</b>	<b>Test Inputs</b>	<b>Expected Outputs</b>	<b>Actual Output</b>	<b>Result (Pass/Fail)</b>	<b>Description</b>
S001	Supplier Name-cargo food delivery Password-cargo123 Confirmed password-cargo123 Contact Number-0767677054 <a href="mailto:cargo.food@gmail.com">Email- cargo.food@gmail.com</a>	Pop up an alert message ‘registration success. now you can sign in’.	Expected Output	Pass	Registering to the system has worked successfully.

*Table 2.4 – 1.0 : Test Case – Supply Management*

## Illustrates the test cases Search for pending orders by the order status

Index	order ID	total Price	order Date	order Status	amount	item Code	Supplier ID	bill ID		
1	6163dcb7c6516c156893cf56	Rs.65 000	29.09.2021	pending	250pcs	3698	61611a1e95876c23c4e7e304	BN786		
2	6163e0fc6516c156893cf86	Rs.30 0000	30.09.2021	recieved	250pcs	3698	6163c90f6a9f3305a834a74a	yt450		
3	6163eac2f215652c04f633d2	Rs.50 000	12.05.2022	pending	250pcs	3698	6163c90f6a9f3305a834a74a	QW789		
4	6163f0cdf215652c04f633a4	Rs.100 0000	30.09.2021	recieved	100pcs	3698	61611a1e95876c23c4e7e304	BN786		
5	6163f2c7f215652c04f63414	Rs.200 0000	12.05.2022	pending	100pcs	3698	6163c90f6a9f3305a834a74a	BN786		

OCADO      PRODUCTS      LEGALS      CONTACTS

Enter Sri Lanka's freshest online      Trending      Licences      Ward Place,

Figurer 2.4 – 1.2.0 : Test Case – Supply Management

Index	order ID	total Price	order Date	order Status	amount	item Code	Supplier ID	bill ID		
1	6163dcb7c6516c156893cf56	Rs.65 000	29.09.2021	pending	250pcs	3698	61611a1e95876c23c4e7e304	BN786		
2	6163eac2f215652c04f633d2	Rs.50 000	12.05.2022	pending	250pcs	3698	6163c90f6a9f3305a834a74a	QW789		
3	6163f2c7f215652c04f63414	Rs.200 0000	12.05.2022	pending	100pcs	3698	6163c90f6a9f3305a834a74a	BN786		

OCADO      PRODUCTS      LEGALS      CONTACTS

Enter Sri Lanka's freshest online      Trending      Licences      Ward Place,  
grocery store for all your grocery  
needs. Now you can order all  
your daily necessities from the  
comfort of your home or  
anywhere you wants!      My  
Account      Refund  
Policy      Colombo 07  
Vendors      About us      + 94 112685569  
Brands      Contact Us      + 94 112685570

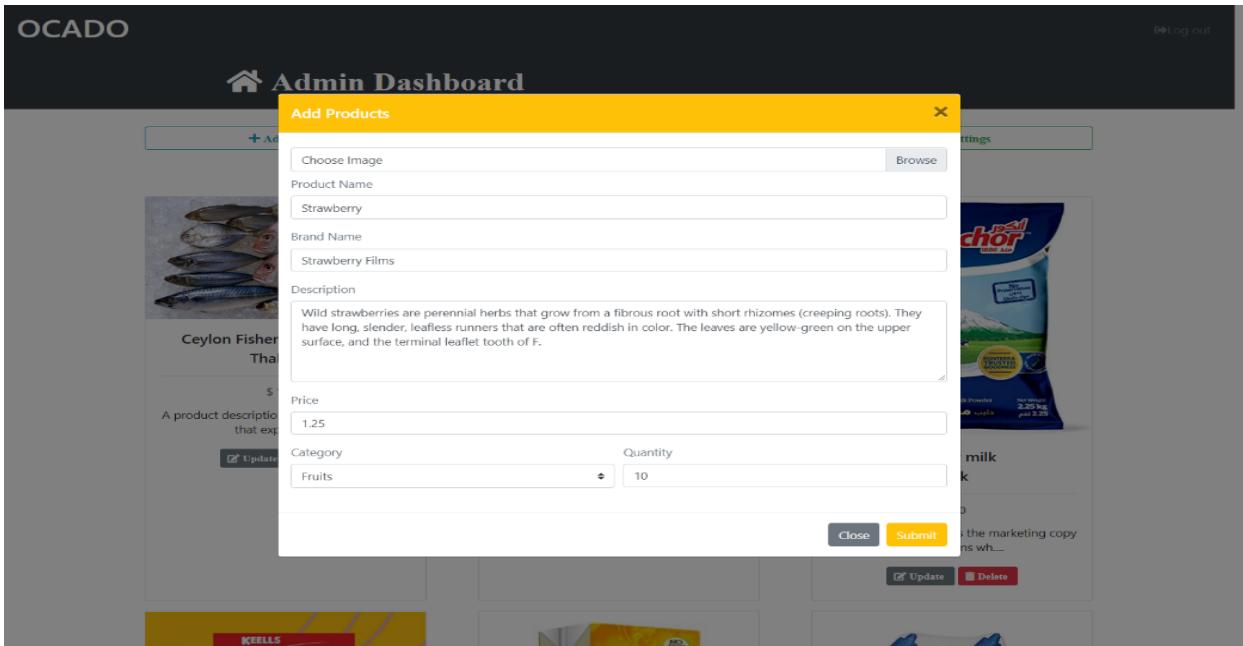
Figurer 2.4 – 1.2.1 : Test Case – Supply Management

<b>Test ID</b>	<b>Test Inputs</b>	<b>Expected Outputs</b>	<b>Actual Output</b>	<b>Result (Pass/Fail)</b>	<b>Description</b>
S002	Word as 'pend'	Orders which have the order status as 'pending'	Expected Output	Pass	Search function worked perfectly. Matched with the exact results for the given input.

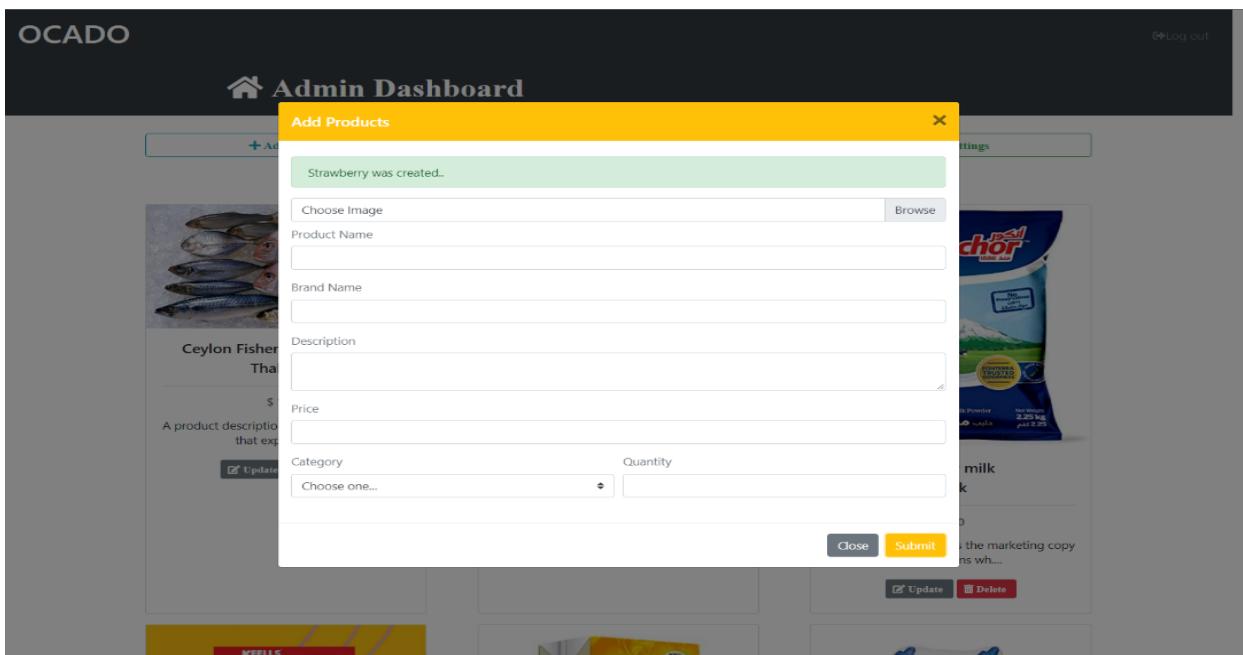
*Table 2.4 – 1.1 : Test Case – Supply Management*

## Admin Panel Management

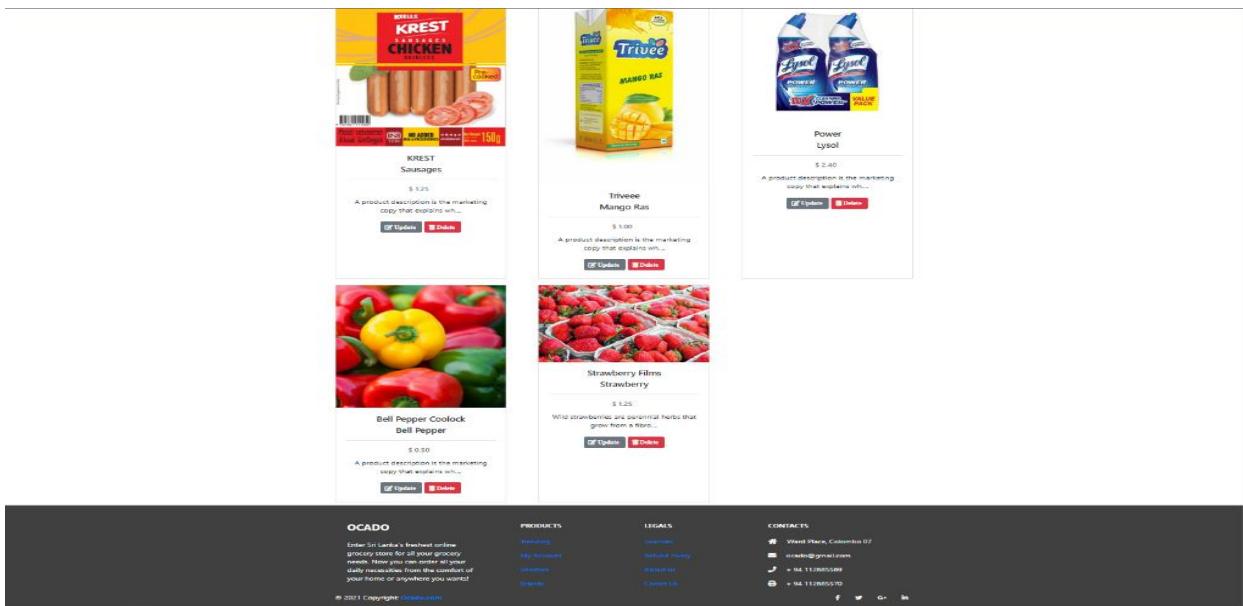
Illustrates the test cases done when adding a new product to the system



Figurer 2.4 – 2.1.0 : Test Case – Admin Panel Management



Figurer 2.4 – 2.1.1 : Test Case – Admin Panel Management



*Figurer 2.4 – 2.1.2 : Test Case – Admin Panel Management*

Test ID	Test Input	Excepted Outputs	Actual Output	Result (Pass/Fail)	Description
A001	Products Details Filename: ***** Product name: Strawberry Brand name: Strawberry Films Description: ***** Price: \$1.25 Category: Fruits Qty:10	All the product details should be inserted and store into the database successfully	“Strawberry was created” message appeared on the screen and click on the submit. Inserted data add to all product record table.	Pass	Inserted product details function properly. Data successfully added to the database

*Table 2.4 – 2.0 : Test Case – Admin Panel Management*

Illustrates the test cases done when user enter the invalid password for to sign up

The screenshot shows the Ocado sign-up interface. At the top, there's a navigation bar with links for Home, Warehouse, Shop, Sign up (which is highlighted), and Sign in. Below the navigation is a form for creating a new account. The form fields are as follows:

- First Name: kanjana
- Last Name: epitawatta
- Email: kanjanaepitawatta@gmail.com
- Phone Number: 0111221221
- Username: nightfury
- Password: (obscured)
- Confirm Password: (obscured)

A red error message box at the top of the form area says "Password do not match." Below the form is a blue "Sign Up" button. At the bottom of the page, there are links for "Have a Account" and "Sign in".

*Figurer 2.4 – 2.2.0 : Test Case – Admin Panel Management*

Test ID	Test Input	Excepted Outputs	Actual Output	Result (Pass/Fail)	Description
A002	Admin sign up details First name: Kanjana Last name: Epitawatta Email: <a href="mailto:kanjanaepitawatta@gmail.com">kanjanaepitawatta@gmail.com</a> Username:IT20085094 Password :1111111111111111 Confirm password:111111	By giving wrong password cannot signup into the system and cannot move to sign in	Display an error message “Password do not match ” .	Pass	Password validations are properly working

*Table 2.4 – 2.1 : Test Case – Admin Panel Management*

## Delivery Management

Add new delivery details into the system after new orders has placed.

The screenshot shows a web-based application for delivery management. At the top, there's a header bar with the OCADO logo, a dashboard link, and a logout link. Below the header, there's a modal dialog box with a white background and a thin gray border. Inside the dialog, the text "localhost:3000 says" is displayed above "Data added Successfully". In the bottom right corner of the dialog is a blue "OK" button. The main content area of the page contains several input fields and labels:

- Oder ID:** A text input field containing "U8585".
- Delivered Date:** A text input field containing "09/11/2021".
- Delivery Address:** A text input field containing "2/1,Anderson Rd, Dehiwala."
- Delivery Time:** A text input field containing "4.30pm".
- Driver ID:** A text input field containing "D9090".
- Description:** A text input field containing "Done".

At the bottom left of the main content area is a blue "Submit" button. On the far right edge of the main content area, there is a vertical scroll bar.

Figurer 2.4 – 3.1.0 : Test Case – Delivery Management

The screenshot shows a table titled "Delivery Details" with one row of data. The table has columns for Count, Order Id, Delivered Date, Delivery Address, Delivery Time, Driver ID, Description, and Action. The data in the table is as follows:

Count	Order Id	Delivered Date	Delivery Address	Delivery Time	Driver ID	Description	Action
1	U8585	09/11/2021	2/1,Anderson Rd, Dehiwala.	4.30pm	D9090	Done	<button>Edit Details</button> <button>Delete Details</button>

Below the table, there are two buttons: "Create New" (green) and "Generate Report" (gray). To the right of the table, there is a search bar with the placeholder "Search" and a "Dashboard" link at the top right of the page.

Figurer 2.4 – 3.1.1 : Test Case – Delivery Management

<b>Test ID</b>	<b>Test Inputs</b>	<b>Expected Output</b>	<b>Actual Output</b>	<b>Result (Pass/Fail)</b>	<b>Description</b>
D001	New Delivery Details Order ID – U9292 Delivered Date – 08/10/2021 Delivery Address – 102, Anderson Rd, Kalubovila, Dehiwala. Delivery Time – 4.30pm Driver ID – D9090 Description - Done	All the delivery details should be successfully inserted to the database.	“Data added successfully!!!” Message appeared on the screen and click “ok” on this alert message and preview on delivery details list table with inserted data.	Pass	Add new Delivery Details function worked properly and new Delivery Detail's has saved in the Database also.

*Table 2.4 – 3.0 : Test Case – Delivery Management*

## Adding a new Driver and Vehicle to the system



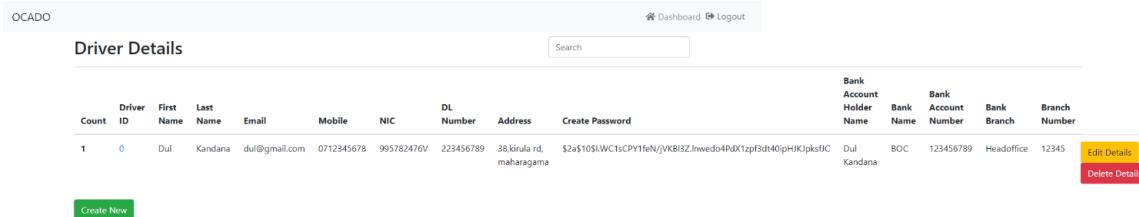
The screenshot shows the 'Driver Registration' interface. At the top, there's a header with 'OCADO' and navigation links for 'Home', 'Signup', and 'Signin'. Below the header, a banner features two delivery drivers: one older man in a blue shirt holding a smartphone, and a younger man in a cap leaning against a van. The main form area has a green validation success message: 'Validation success'. It contains fields for personal information: Name ('Dul Kandana'), Email ('dul@gmail.com'), Phone ('0712345678'), NRIC ('995782476V'), SIN ('223456789'), Address ('38,kirula rd, maharagama'), and two password fields ('\*\*\*\*\*'). Below this is a section for 'Enter your Bank Details' with fields for Name ('Dul Kandana'), Bank ('BOC'), Branch ('Headoffice'), and Account Number ('123456789'). At the bottom are 'Submit' and 'NEXT' buttons, and links for 'Have an account? Log In'.

Figurer 2.4 – 3.2.0 : Test Case – Delivery Management



The screenshot shows the 'Driver Registration' interface, specifically the 'Enter your Vehicle Details' step. The header and navigation links are identical to the previous screenshot. The banner features several white delivery vans parked outdoors. The main form area has a green validation success message: 'Registration success. Please signin.' It contains fields for vehicle details: Make Model, Year of Manufactured, Year of Registered, and Vehicle Number. There's also a 'Capacity' section with fields for Length and Width. A dropdown menu for Availability ('Choose...') is shown. At the bottom are 'Submit' and 'NEXT' buttons, and links for 'Have an account? Log In'.

Figurer 2.4 – 3.2.1 : Test Case – Delivery Management



Figurer 2.4 – 3.2.3 : Test Case – Delivery Management

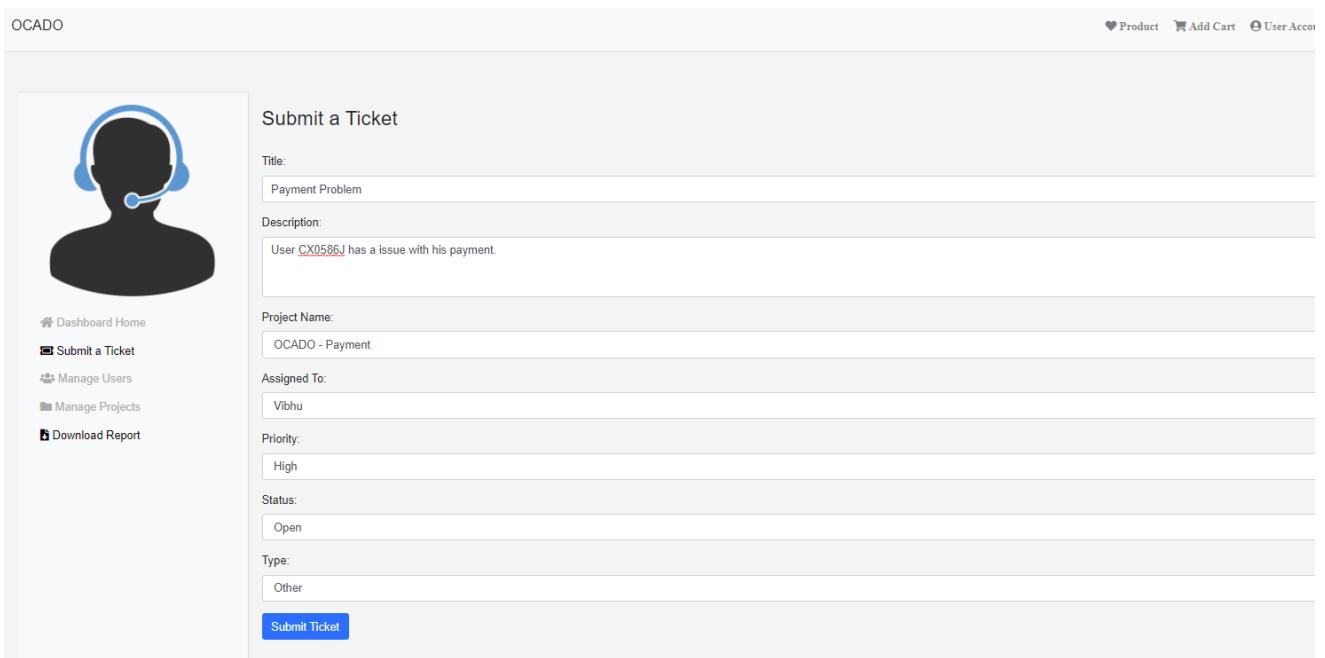
Test ID	Test Input	Expected Output	Actual Output	Result (Pass/Fail)	Description
D002	Driver Register Details First Name – Dul Last name – Kandana Email – <a href="mailto:dul@gmail.com">dul@gmail.com</a> Mobile – 0712345678 NIC - 995782476V Driving License Number – 223456789 Address – 38, Kirula rd, Maharagama. Create Password – 123456 Confirm Password – 123456 Bank Account Holder Name – Dul Kandana Bank Name – BOC Bank Account Number – 123456789 Bank Branch – Head office Branch Number - 12345 Vehicle Register Details Make Model – Toyota, Demo Year of Manufactured – 1999	All the Driver and Vehicle details should be inserted and stored into the database successfully.	“Registration Success. Please Sign in.” message appeared on the screen and preview on Vehicle details list table with inserted data.	Pass	Inserted Driver and Vehicle details function properly. Data successfully added to the database.

Year of Registered – 2000				
Vehicle Number – GV-3823				
Capacity				
Length - 5				
Width - 2.5				
Availability of Freezer - Yes				

*Table 2.4 – 3.1 : Test Case – Delivery Management*

## Feedback Management

Illustrates the test cases done when open a new ticket



OCADO

Submit a Ticket

Title: Payment Problem

Description: User CX0586J has a issue with his payment.

Project Name: OCADO - Payment

Assigned To: Vibhu

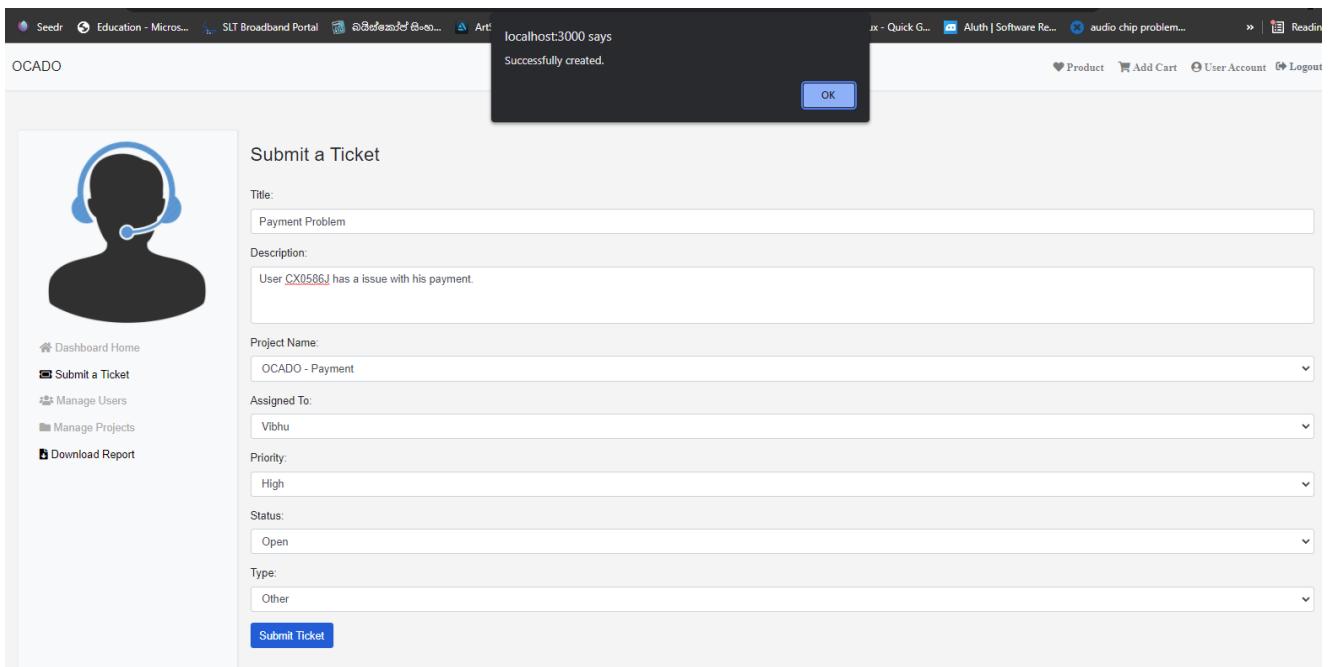
Priority: High

Status: Open

Type: Other

**Submit Ticket**

Figurer 2.4 – 4.1.0 : Test Case – Feedback Management



OCADO

localhost:3000 says  
Successfully created.

**OK**

Submit a Ticket

Title: Payment Problem

Description: User CX0586J has a issue with his payment.

Project Name: OCADO - Payment

Assigned To: Vibhu

Priority: High

Status: Open

Type: Other

**Submit Ticket**

Figurer 2.4 – 4.1.1 : Test Case – Feedback Management

fdsgdsg	dfsgsdgs	OCADO - Delivery	dfhdhf	Low	Open	Other	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
bgfdxcb	xvcxb	OCADO Feedback	Maleesha	Medium	In Progress	Feature Request	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
fvdsqd	gsdgdsq	OCADO Feedback	Maleesha	Medium	Open	Security	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
Payment Problem	User CX0586J has a issue with his payment.	OCADO - Payment	Vibhu	High	Open	Other	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
<b>Resolved Tickets</b>							
Title	Description	Project	Assigned To	Priority	Status	Type	Actions
fdsaf	fdfsdf	THYMU	Manul	Medium	Resolved	Security	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
Payment Issue	User 0954 had issue with payment	THYMU	Maleesha	High	Resolved	Security	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
fasdfassssssssssssss	fasaswfsdagfvsdegsredgvbdscgv fasaswfsdagfvsdegsredgvbdscgvfasaswfsdagfvsdegsredgvbdscgv	OCADO Feedback	Manul	High	Resolved	Other	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>
gdsg	dsqs	OCADO Feedback	Manul	High	Resolved	Bug/Error	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Mark as Resolved</a>

Figurer 2.4 – 4.1.2 : Test Case – Feedback Management

Test ID	Test Input	Excepted Outputs	Actual Output	Result (Pass/Fail)	Description
F001	Ticket Details Title: Payment Description: ***** Project name : OCADO- Payment Assign To: Vibu Priority : High Status : Open Type: Other	All the ticket details should be inserted and store into the database successfully	Successfully created message appeared on the screen and click on the submit. Inserted data add to all product record table.	Pass	Inserted ticket details function properly. Data successfully added to the database

Table 2.4 – 4.0 : Test Case – Feedback Management

Illustrates the test cases done when admin enter the invalid email type for add user

Name	Email	Role	Action
kanjanaepitawatta@gmail.com	1		<a href="#">Delete</a>
kanjanaepitawatta12@gmail.com	Admin		<a href="#">Delete</a>
Manul	Admin		<a href="#">Delete</a>
Maleesha	Developer		<a href="#">Delete</a>
Kanjana	Admin		<a href="#">Delete</a>
Ashani	Admin		<a href="#">Delete</a>
Vibhu	0		<a href="#">Delete</a>
vibhu@gmail.com	Admin		<a href="#">Delete</a>

Create New User

Name:

Email:  (Validation message: Please include an '@' in the email address. 'Laka' is missing an '@'.)

Role:

[Create User](#)

Figurer 2.4 – 4.2.0 : Test Case – Feedback Management

Test ID	Test Input	Excepted Outputs	Actual Output	Result (Pass/Fail)	Description
F002	Admin add user Name: Lakmal Email: <a href="#">laka</a> Role : admin	By giving wrong email type cannot insert into the system and cannot submit	Display an error message “Please include an @ in the email address. ‘Laka’ is missing ‘@’ .	Pass	email validations are properly working

Table 2.4 – 4.1 : Test Case – Feedback Management

## Warehouse Management

Show warning messages when user enters empty fields

The screenshot shows a web application interface for managing new arrivals. At the top, there's a dark purple header with the 'OCADO' logo on the left and a navigation menu with 'Warehouse Dashboard', 'Arrivals', and 'Departures' on the right. Below the header is a light blue main area containing a form titled 'New Arrival'. The form has five input fields: 'Cart ID' (with the error message 'Cart ID is required !!!'), 'Manufacture' (with 'Manufacture is required !!!'), 'Product Code' (with 'Product Code is required !!!'), 'Arrival Date' (with 'Arrival Date is required !!!'), and 'Quantity' (with 'Quantity is required !!!'). Each input field is followed by a red error message. At the bottom of the form are two buttons: a blue 'Submit' button and a green 'Demo' button.

*Figurer 2.4 – 5.1.0 : Test Case – Warehouse Management*

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
W001	Insert Item Arrival Details Cart ID – Manufacture – Product Code – Arrival Date – Quantity -	Warning messages should point out empty fields.	Cart ID is required!!! Manufacture is required!!! Product Code is required!!! Arrival Date is required!!! Quantity is required!!!	Pass	Warning messages displayed successfully.

*Table 2.4 – 5.0 : Test Case – Warehouse Management*

Show warning messages when user enters invalid Cart ID or Product ID

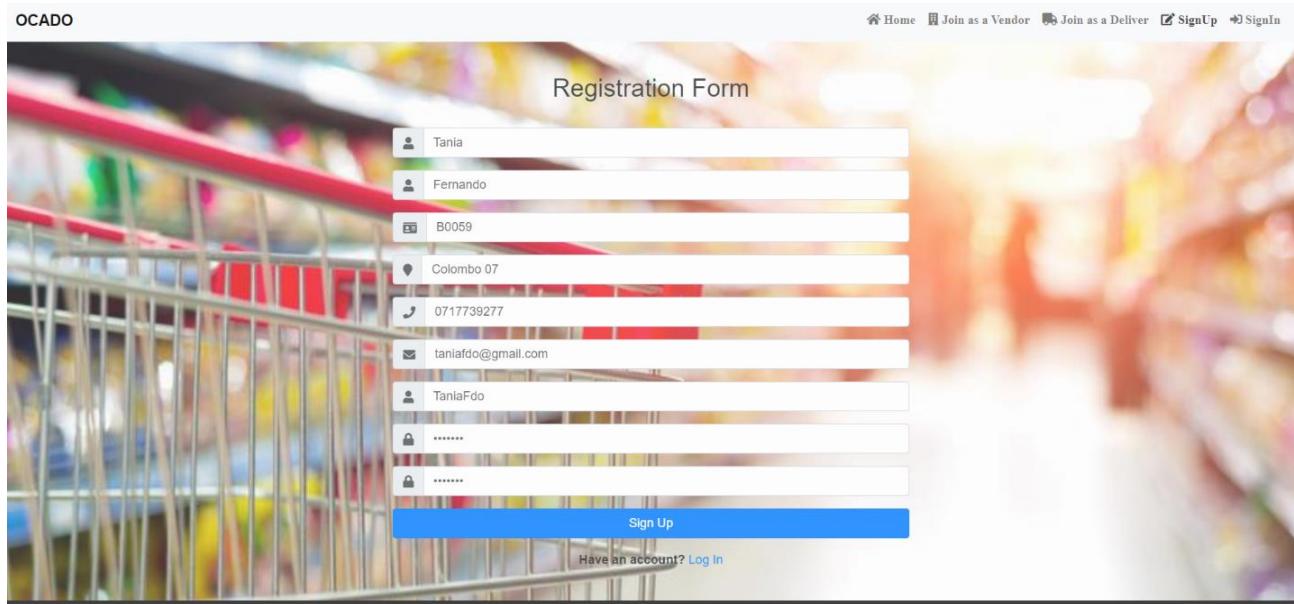
*Figurer 2.4 – 5.2.0 : Test Case – Warehouse Management*

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
W002	Insert Item Arrival Details Cart ID – 466 Manufacture – Sunlight Product Code – 022 Arrival Date – 09/16/2021 Quantity - 750	Two warning messages should be displayed.	Show warning messages when user enters invalid Cart ID or Product ID. Dashboard. Cart Id Prefix should be (CRT). Product Code Prefix should be (PRD).	Pass	Warning messages displayed successfully.

*Table 2.4 – 5.1 : Test Case – Warehouse Management*

## Buyer Management

Illustrates the test cases done when adding a new buyer to the system

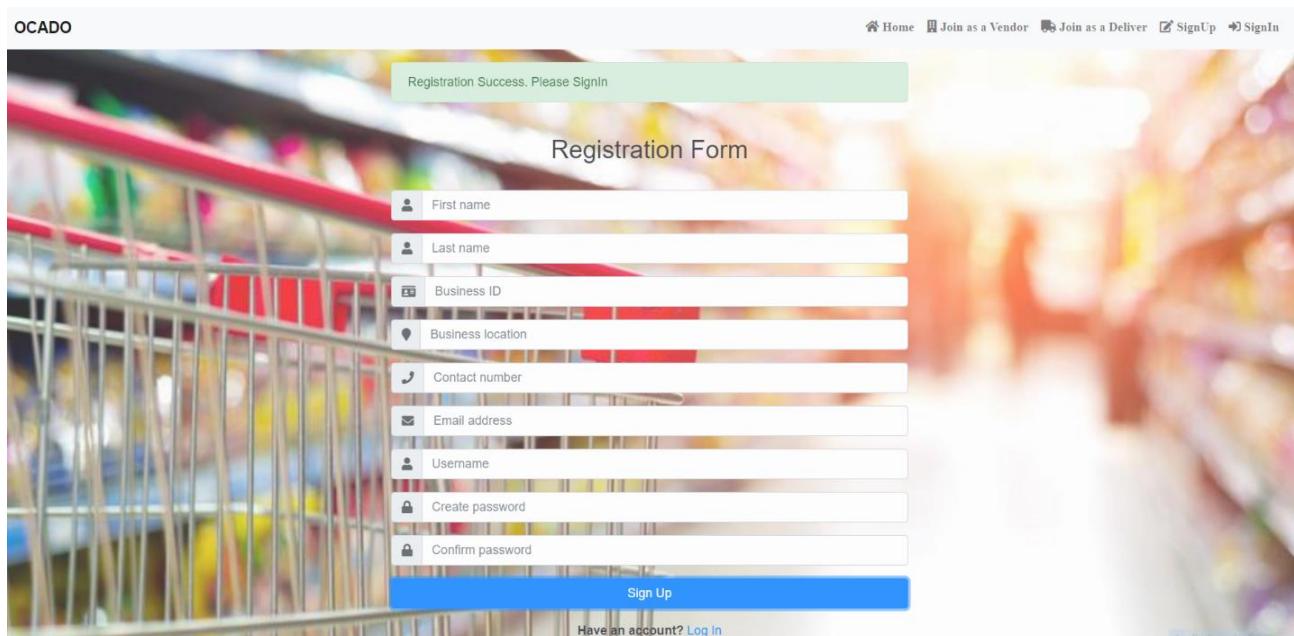


The screenshot shows the OCADO registration form titled "Registration Form". The background is a blurred image of a supermarket aisle with shelves filled with products. The form fields are as follows:

- First name: Tania
- Last name: Fernando
- Business ID: B0059
- Business location: Colombo 07
- Contact number: 0717739277
- Email address: taniafdo@gmail.com
- Username: TaniaFdo
- Create password: (redacted)
- Confirm password: (redacted)

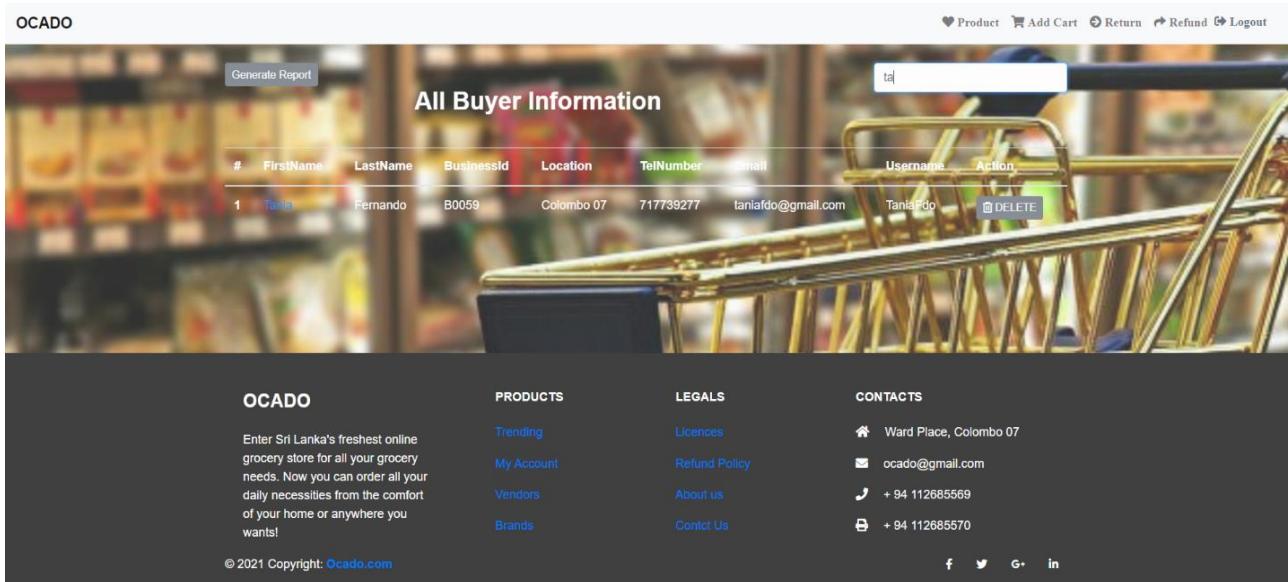
At the bottom of the form is a blue "Sign Up" button. Below the button, there is a link "Have an account? Log In".

Figurer 2.4 – 6.1.0 : Test Case – Buyer Management



The screenshot shows the OCADO registration form titled "Registration Form". The background is a blurred image of a supermarket aisle. A green success message at the top of the page reads "Registration Success. Please SignIn". The form fields are identical to the one in Figure 2.4 – 6.1.0, but the first name field is empty ("First name"). At the bottom of the form is a blue "Sign Up" button. Below the button, there is a link "Have an account? Log In".

Figurer 2.4 – 6.1.1 : Test Case – Buyer Management

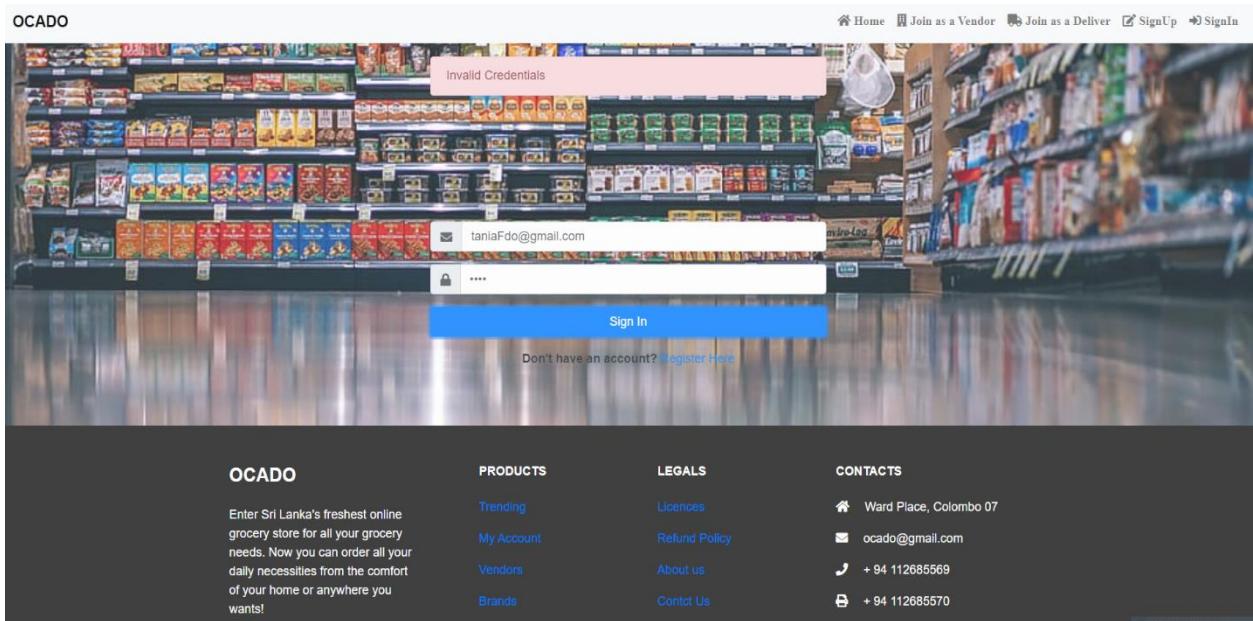


Figurer 2.4 – 6.1.2 : Test Case – Buyer Management

Test ID	Test Input	Excepted Outputs	Actual Output	Result (Pass/Fail)	Description
B00 1	Buyer Register Details  First Name : Tania Last Name : Fernando Business ID : B0059 Business Location : Colombo 07 Contact Number : 0717739277 Email Address : taniafdo@gmail.com Username : TaniaFdo Create Password : tania12 Confirm Password : tania12	All the Buyer details should be inserted and store into the database successfully	“Registration Success. Please Sign In” message appeared on the screen and click on the sign in. Inserted data add to all buyer record table and search specific buyer detail.	Pass	Inserted buyer details function properly. Data successfully added to the database

Table 2.4 – 6.0 : Test Case – Buyer Management

Illustrates the test cases done when user added wrong password to enter to the login



*Figurer 2.4 – 6.2.0 : Test Case – Buyer Management*

Test ID	Test Input	Excepted Outputs	Actual Output	Result (Pass/Fail)	Description
B002	Buyer Login Details  Email Address : taniafdo@gmail.com  Password : tania121232342	By giving wrong password cannot login into the system and cannot move to another page	Display an error message “Invalid Credentials” and cannot to redirect in another page	Pass	Password validations are properly working

*Table 2.4 – 6.1 : Test Case – Buyer Management*

## Payment and Financial Management

Highlights the test case done for adding phone number less/more than 10 and inserting postal code less/more than 5 digits

The screenshot shows a web application window titled "OCADO" with the URL "localhost:3000/add". The main content is a form for adding an address. The "City" field contains "Colombo", the "Phone No" field contains "07134228", and the "Postal Code" field contains "123". The "Country" field contains "Sri Lanka". Two validation errors are shown: "Enter a valid postal code!" above the "Postal Code" field and "Enter a valid phone number!" above the "Phone No" field. A large orange "SAVE ADDRESS" button is at the bottom. The browser's status bar shows the date and time as 10/13/2021 1:22 PM.

Figurer 2.4 – 7.1.0 : Test Case – Payment Management

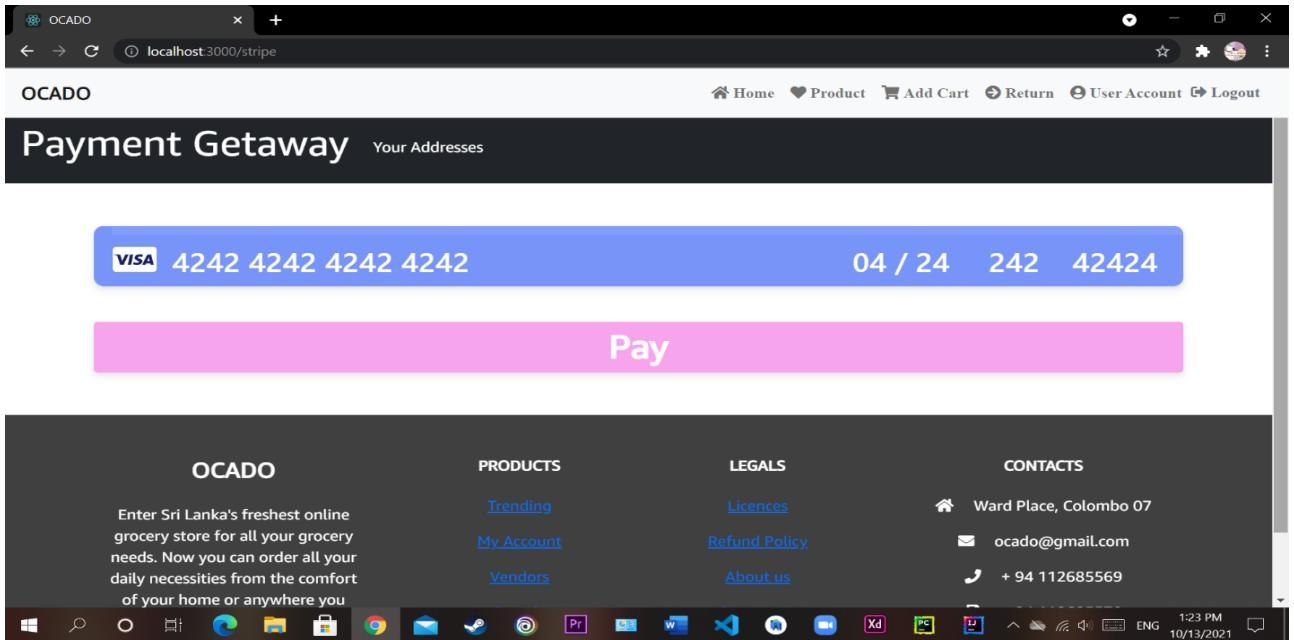
The screenshot shows a web application window titled "OCADO" with the URL "localhost:3000/add". The main content is a form for adding an address. The "City" field contains "Colombo", the "Phone No" field contains "0713422887121212", and the "Postal Code" field contains "12351121212". The "Country" field contains "Sri Lanka". Two validation errors are shown: "Enter a valid postal code!" above the "Postal Code" field and "Enter a valid phone number!" above the "Phone No" field. A large orange "SAVE ADDRESS" button is at the bottom. The browser's status bar shows the date and time as 10/13/2021 2:35 PM.

Figurer 2.4 – 7.1.1 : Test Case – Payment Management

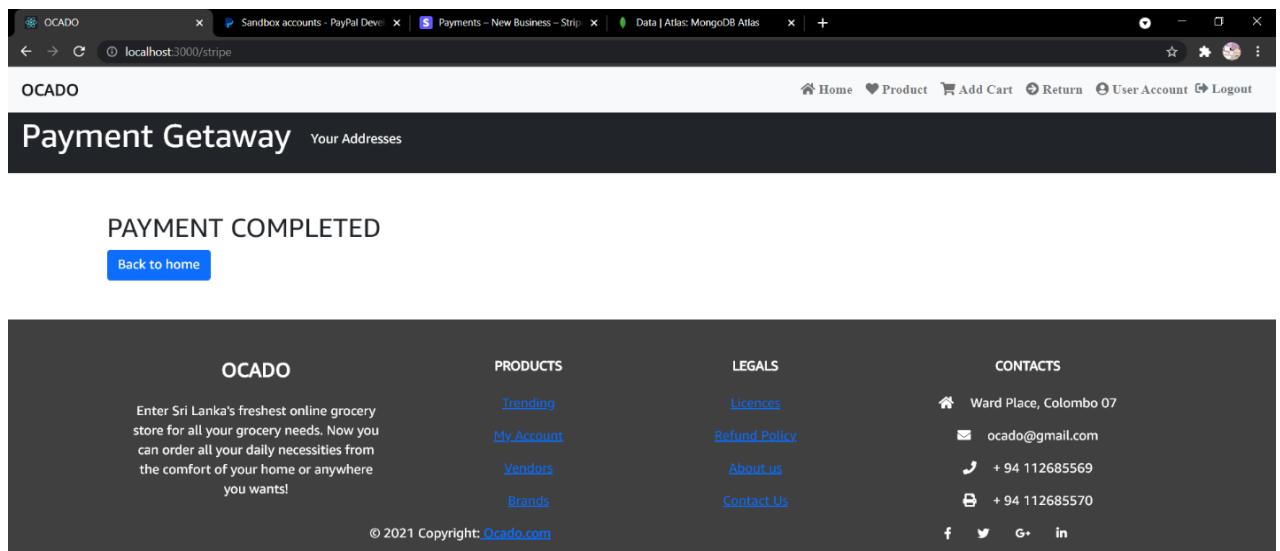
Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
P001	Insert Shipment Details Address- 552, Chatham Street, Colombo City – Colombo Phone Number – 07134228 Postal Code – 123 Country – Sri Lanka	Two Toast messages pointing out errors.	Enter a valid postal code Enter a valid phone number	Pass	Insert function validation worked properly. Toast messages worked.

*Table 2.4 – 7.0 : Test Case – Payment Management*

Highlights the embedded react-stripe-js validation framework regarding credit/debit cards



Figurer 2.4 – 7.2.0 : Test Case – Payment Management



Figurer 2.4 – 7.2.1 : Test Case – Payment Management

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
P002	Insert Card Details Card Number – 4242 4242 4242 4242 MM/YY – 04/24 CVC – 242 Zip Code - 42424	Embedded validation success as it should show visa logo and direct to complete page	Shows Visa logo Redirect into payment complete page Card details stored in the Stripe Dashboard.	Pass	Embedded validation worked successfully. Stripe keys worked perfectly.

*Table 2.4 – 7.1 : Test Case – Payment Management*

## Return and Refund Management

Illustrates the test cases done when adding a new product return request to the system

The screenshot shows a web browser window for OCADO. The URL is `localhost:3000/add`. A modal dialog box is displayed with the text "localhost:3000 says Data added successfully !!!" and an "OK" button. Below the modal, the page title is "Return Request Form". The form contains fields for Name (Kamal), Email (kamal12@gmail.com), Owner (Owner), Bill (6758), Delivered date (10/05/2021), Product Name (Bellpeper), Product Code (8890), Status (Not Opened), and Reason (Item Damaged). There are "SUBMIT" and "DEMO" buttons at the bottom.

Figurer 2.4 – 8.1.0 : Test Case – Return Management

The screenshot shows a table titled "Return Requests Details" with one row of data. The table columns are: Index, Name, Email, User Type, Bill, Delivered date, Product Name, Product Code, Reason, Status, and Action. The data in the table is:

Index	Name	Email	User Type	Bill	Delivered date	Product Name	Product Code	Reason	Status	Action
1	Kamal	kamal12@gmail.com	Owner	6758	2021-10-05	Bellpeper	8890	Item Damaged	Not Opened	<input checked="" type="checkbox"/> UPDATE <input type="button" value="DELETE"/>

Figurer 2.4 – 8.1.1 : Test Case – Return Management

<b>Test ID</b>	<b>Test Inputs</b>	<b>Expected Output</b>	<b>Actual Output</b>	<b>Result (Pass/Fail)</b>	<b>Description</b>
R001	Product return request details Buyer Name - Kamal Email - kamal12@gmail.com User type - Owner Bill Number - 6758 Delivered date - 10/05/2021 Product Name - Bell pepper Product code - 8890 Status - Not Opened Product Issue - Item Damaged	All the request details should be successfully inserted to the database	“Data added successfully!!! “Message appeared on the screen and click ok on this alert message redirected to all record page and Search specific request details	pass	Insert return request detail's function worked properly. Data successfully inserted to the database.

*Table 2.4 – 8.0 : Test Case – Return Management*

Illustrates that as the refund form is validated, a buyer email cannot be inserted data without “@gmail” character format

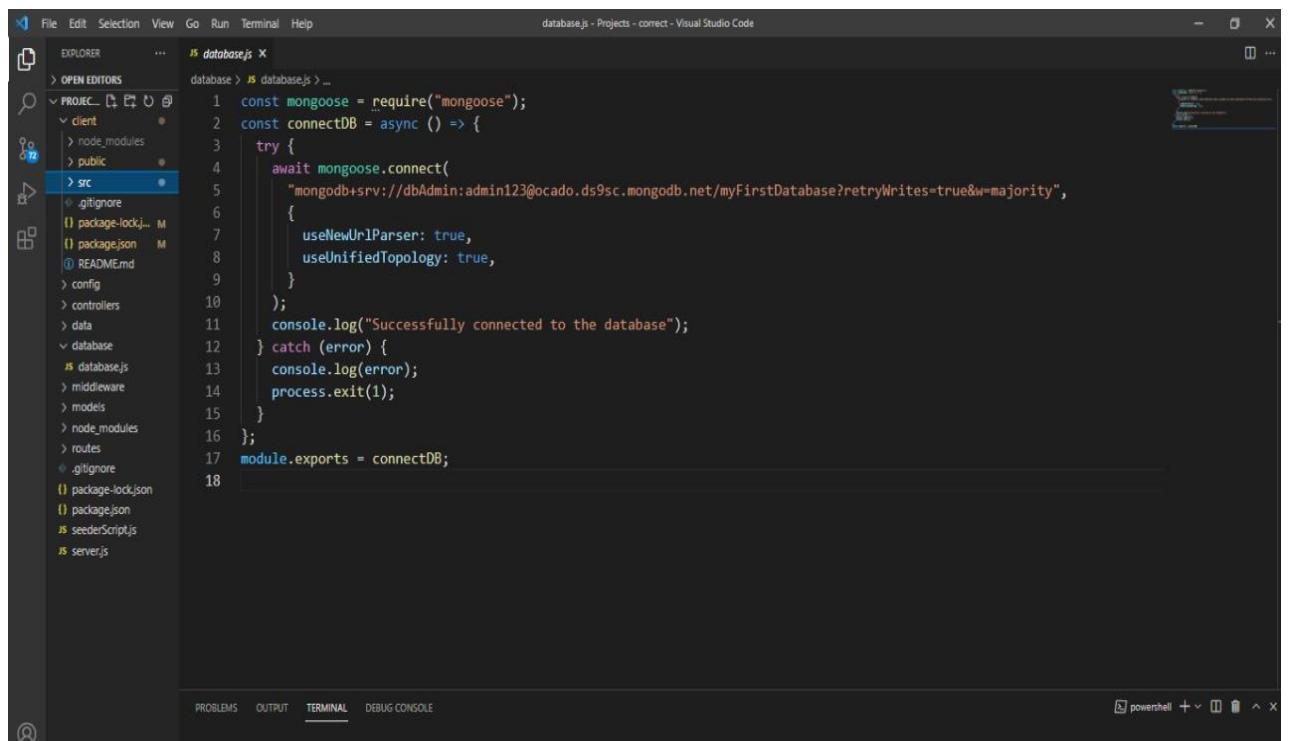
*Figurer 2.4 – 8.2.0 : Test Case – Return Management*

Test ID	Test Inputs	Expected Output	Actual Output	Result (Pass/Fail)	Description
R002	Refund details Email – nimal12.com Amount – 10000.00 Request date – 10/05/2021 Bank – Sampath Branch – Galle Acc No - 2345678906645378	Refund details are should not be successfully inserted to the database	“Invalid Email” message appeared bottom into the email textbox and cannot insert data to the database	Pass	Without entering valid email will not be successful inserted

*Table 2.4 – 8.1 : Test Case – Return Management*

## Appendix C: Selected Code Listings

### Database Connectivity



A screenshot of the Visual Studio Code interface. The title bar says "database.js - Projects - correct - Visual Studio Code". The left sidebar shows a project structure with files like client, public, src, .gitignore, package-lock.json, package.json, README.md, config, controllers, data, database, routes, .gitignore, package-lock.json, package.json, seederScript.js, and server.js. The main editor area displays the code for database.js:

```
const mongoose = require("mongoose");
const connectDB = async () => {
  try {
    await mongoose.connect(
      "mongodb+srv://dbAdmin:admin123@ocado.ds9sc.mongodb.net/myFirstDatabase?retryWrites=true&w=majority",
      {
        useNewUrlParser: true,
        useUnifiedTopology: true,
      }
    );
    console.log("Successfully connected to the database");
  } catch (error) {
    console.log(error);
    process.exit(1);
  }
};
module.exports = connectDB;
```

The bottom navigation bar includes tabs for PROBLEMS, OUTPUT, TERMINAL (which is selected), and DEBUG CONSOLE. A terminal window labeled "powershell" is visible at the bottom right.

Figurer 2.3 – 1 : Database Connection