



Sri Lanka Institute of Information Technology

Cargo Delivery System Project Report

Information Technology Project 2021

Project ID: **ITP2021_WD_B01_G13**

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13.10.2021

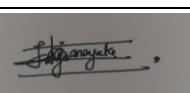
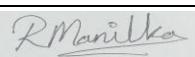
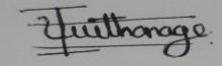
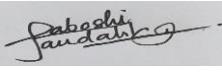
Declaration

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	Cargo Delivery System
Project ID	ITP2021_WD_B01_G13

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Abstract

Through this project an automated computerized system for Cargo Delivery System has been developed. Earlier this system has been using various methods to manage their system well. As the company started up scaling their business, using various methods have been difficult and inefficient. It gave a lot of problems. They may cause to their company name.

Therefore, through this project an automated system is implemented under 8 functions which covers the complete scope of the system. The functions are Customer Management, Store Management, Distribution Management, Delivery Management, User Management, Showroom Management, Finance Management and Owner Management. This computerized system decreases all the issues in this system. This system helps to do work quickly without any doubt. It helps to keep a good time management also.

To implement this system Node Js, Express Js, React Js and Mongo DB database is used. Access control security and user-friendly interfaces are provided to the stakeholder through this system.

Acknowledgement

We, the group members of ITP2021_WD_B01_G13 hereby express our heartiest gratitude to all who provided their support and guidance to make our project a success.

Our special thanks to the lecturer in charge of Information Technology Project (ITP), for providing valuable time to clarify our confusions and pointing out our weaknesses. Also, we like to take this opportunity to express our thank to all the lecturers who are the project supervisor of our group for giving her maximum support for guiding us and providing motivations from the very beginning until we achieved our goal successfully. We thank all the lecturers in this moment. Because they helped very well to success our project.

We would like to appreciate the support given by Mr.R.M.Panduka Sampath Rathnayake, the owner of Vision Cargo Company and all the staff members for providing us information about the company and supporting us with necessary resources for our documentation processes. Their immense support helps us to fulfill their requirements successfully.

Finally, many thanks go to all the group members who gave the maximum effort and commitment to complete our project successfully. This website was the outcome of their hard work throughout this semester.

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List of Acronyms and Abbreviations

Abbreviation	Meaning
ER	Entity Relationship

1. Introduction

1.1 Problem Statement

“Vision Cargo” and “Unique Importers” are two joint ventures companies which doing cargo delivery between Korea and Sri Lanka. And also, Unique importers opened a showroom in 2015 at Kadawatha to sell imported goods from Korea as an extra service to its local customers.

As these two companies have a lot of inventories, the management of Vision Cargo and Unique Importers require a software system to manipulate their resources in a very proficient manner and connect them to maximize profits for its owners while maintaining co-operate social responsibility.

Our client informed us about some of the problems and difficulties that cargo delivery system has faced during the last few years. There were several problems as below,

- They cannot connect with the customers physically because of the Covid-19 situation.
- They need a strong online presence due to the highly competitive market.
- As well as there is higher time consumption when storing data. Sometimes there were data misplacing and redundant also.
- Need an opportunity to talk to a customer when they need to resolve a problem or ask a question about the shipment process.
- Provide customers with the opportunity to give feedbacks about the product and services of the company.

They felt the need for a specific website as they wanted to provide a clear image of their companies to customers while providing services as a more professional and reliable companies.

1.2 Product Scope

Our group built up a web-based application for cargo delivery system to keep a strong online presence in competitive market, allow customer service via multiple channels, get more ideas from customers to improve their services more.

This framework, for the most part covers the accompanying capacities through online applications.

- Customer Management
- Store Management
- Distribution Management
- Delivery Management
- User Management
- Shop Management
- Finance Management
- Owner Management

By the assortment of all the above capacities, the framework gives an easy-to-use interface and effective information preparing.

As we worked hard for their needs, “Vision Cargo” and “Unique Importers” have a well-maintained website and a dedicated database. Through this website they can increase revenue of the company and improve operational efficiencies. It will be helpful for all customers to get many benefits and make their work easier. As well as customers can get more updates about the company.

1.3 Project Report Structure

Section 1:

This section mainly focused on the problems found in the customer's existing manual system and solutions along with the customer's requirements. This also included the overall project plan and product scope in detail.

Section 2:

This area included a Methodology that combines the clarification of Requirements Analysis, Signing, Implementation and Testing. Requirements analysis is protected along with use case diagrams and activity diagrams. The structural sections are clarified using the help of high-level architectural diagrams, class diagrams, ER diagrams and user interfaces. The structure of the module is described in the Implementation section. Test sentences and test results are memorized for the Test area.

Section 3:

This section contained information on project implementation and evaluation, as well as lessons learned.

Section 4:

This complies with the references used to create the project report.

2. Methodology

2.1 Requirements and Analysis

2.1.1 Use Case Diagrams



Figure 1:Figure 2.1.1.1 Use Case Diagram for Customer Management

Store Management



Figure 2:Figure 2.1.1.2 Use Case Diagram for Store Management

Distribution Management



Figure 3:Figure 2.1.1.3 Use Case Diagram for Distribution Management

Delivery Management

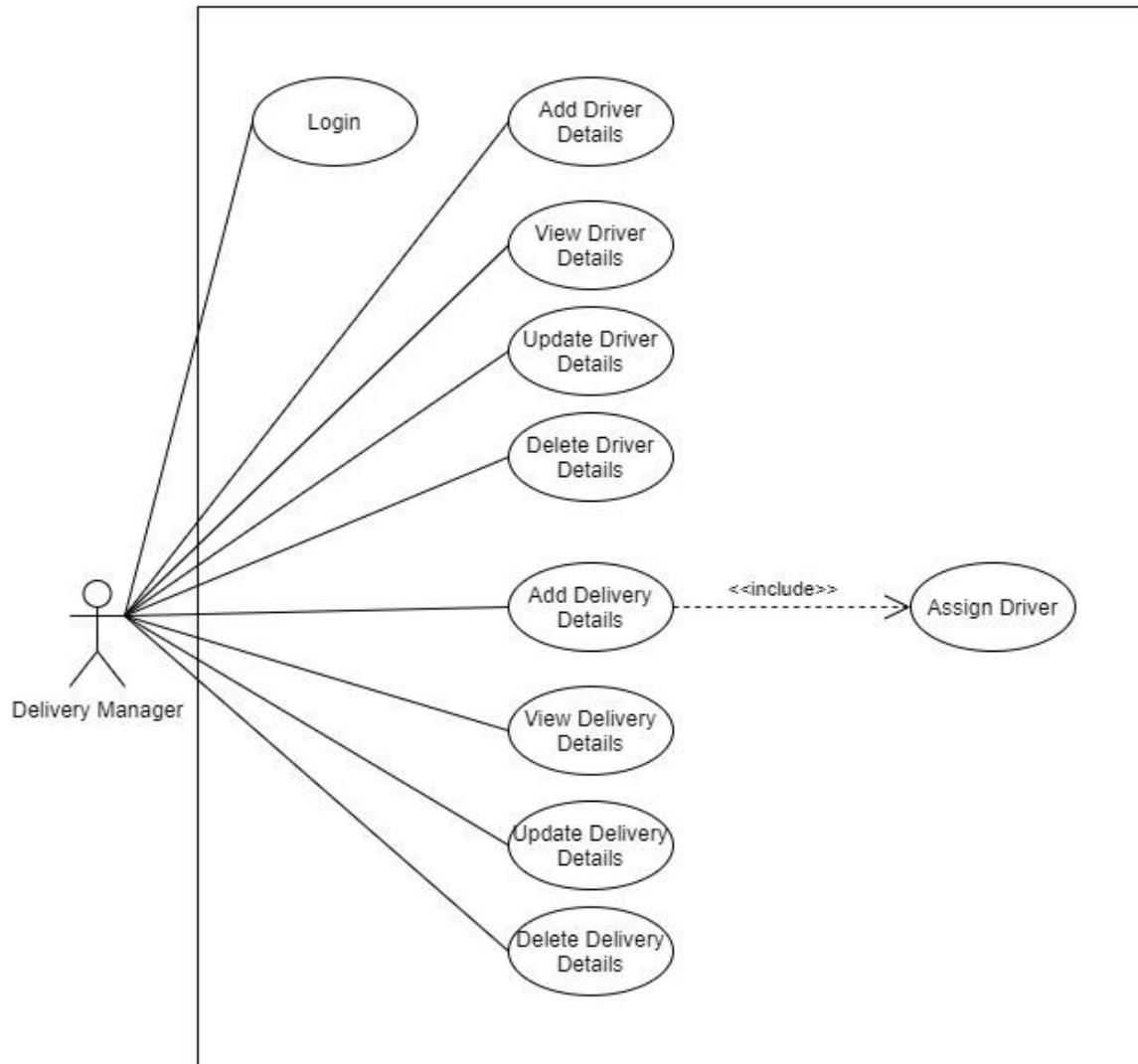


Figure 4:Figure 2.1.1.4 Use Case Diagram for Delivery Management

User Management



Figure 5:Figure 2.1.1.5 Use Case Diagram for User Management

Showroom Management

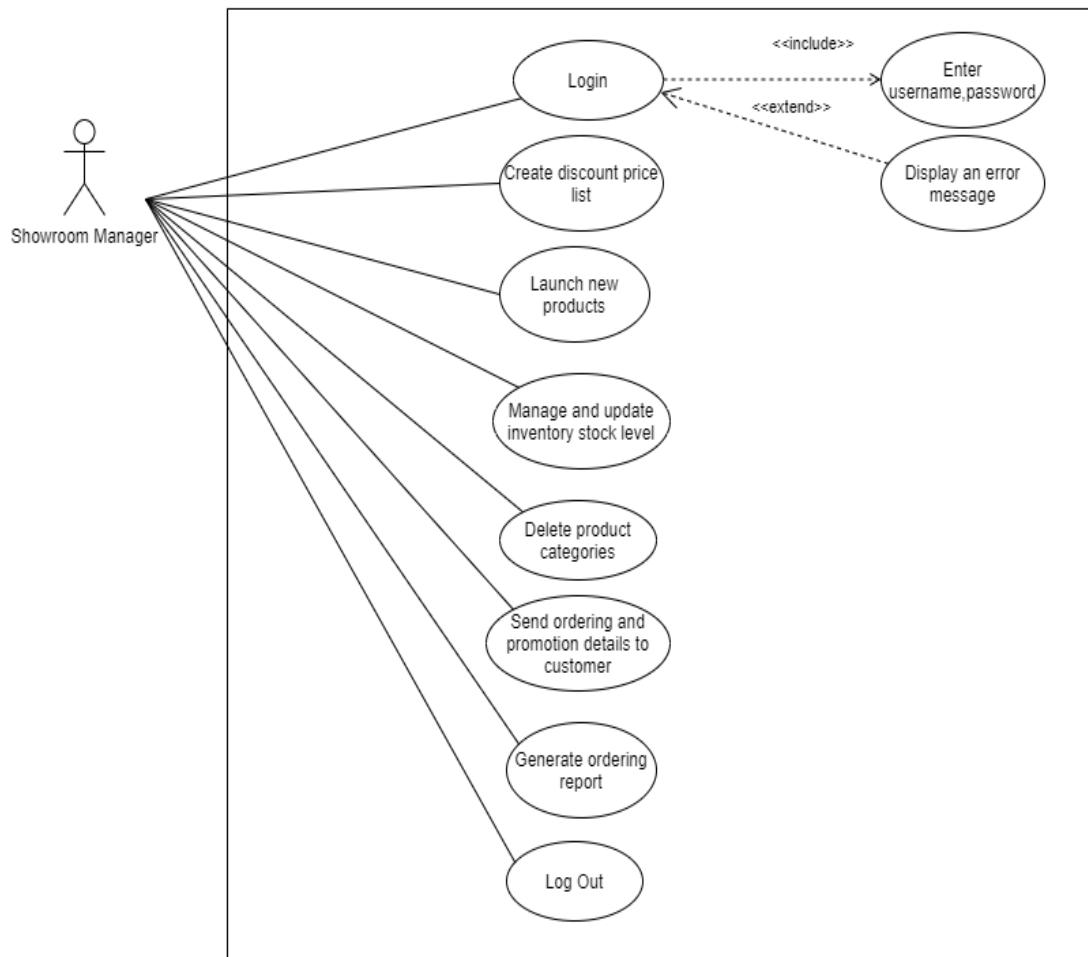


Figure 6:Figure 2.1.1.6 Use Case Diagram for Showroom Management

Finance Management

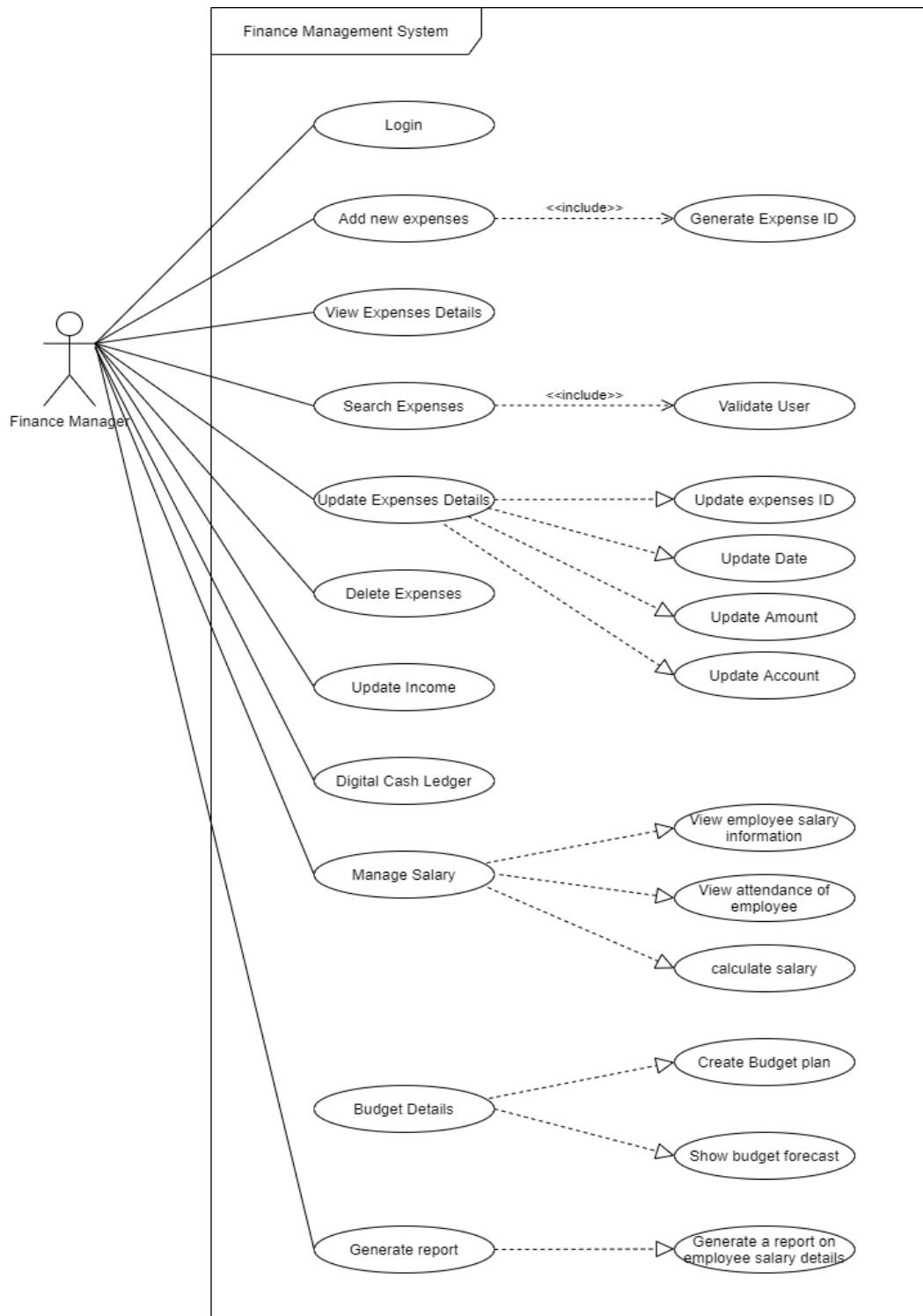


Figure 7:Figure 2.1.1.7 Use Case Diagram for Finance Management

Owner Management



Figure 8:Figure 2.1.1.8 Use Case Diagram for Owner Management

2.1.2 Activity Diagrams

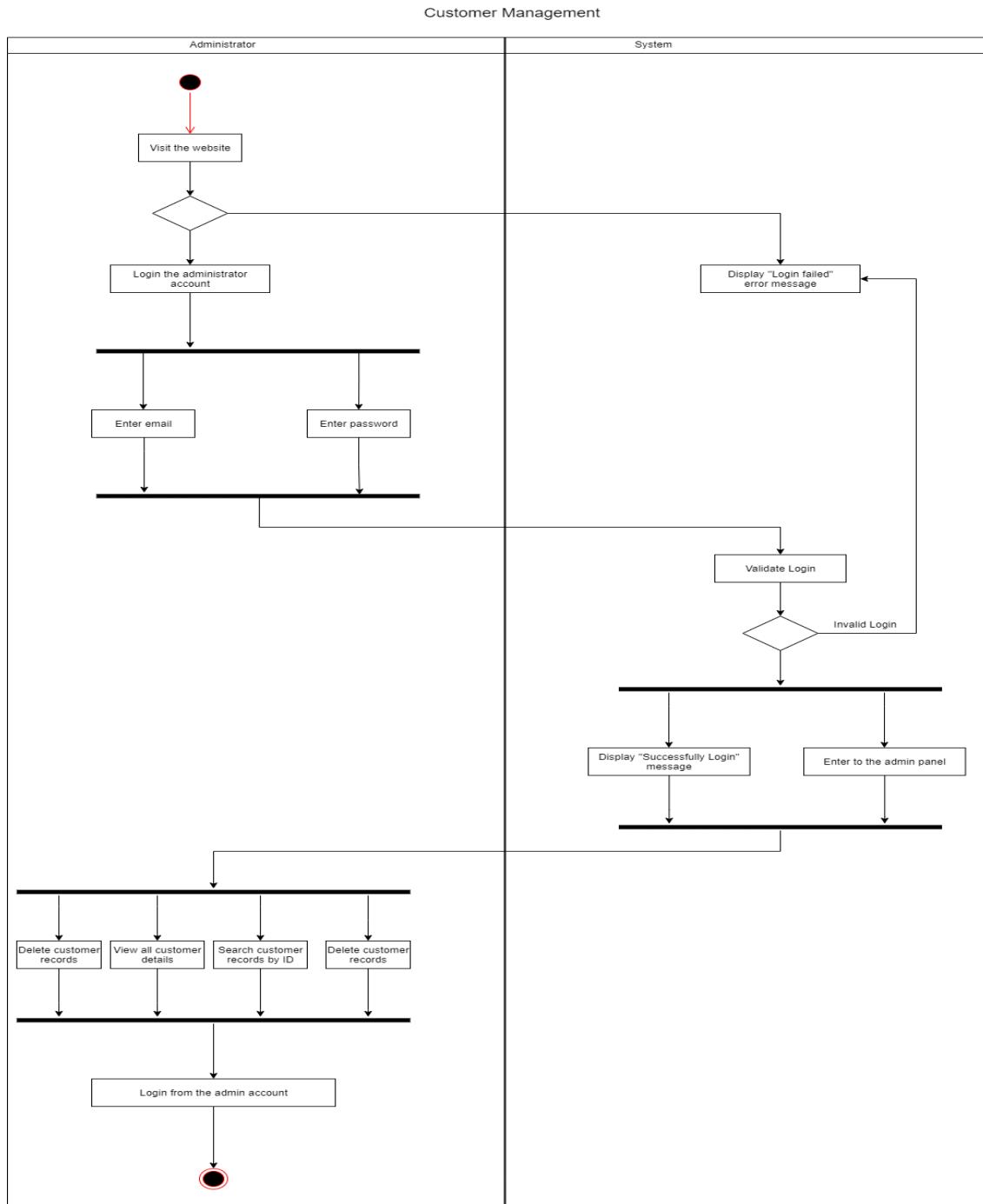


Figure 9:Figure 2.1.2.1 Activity Diagram for Customer Management

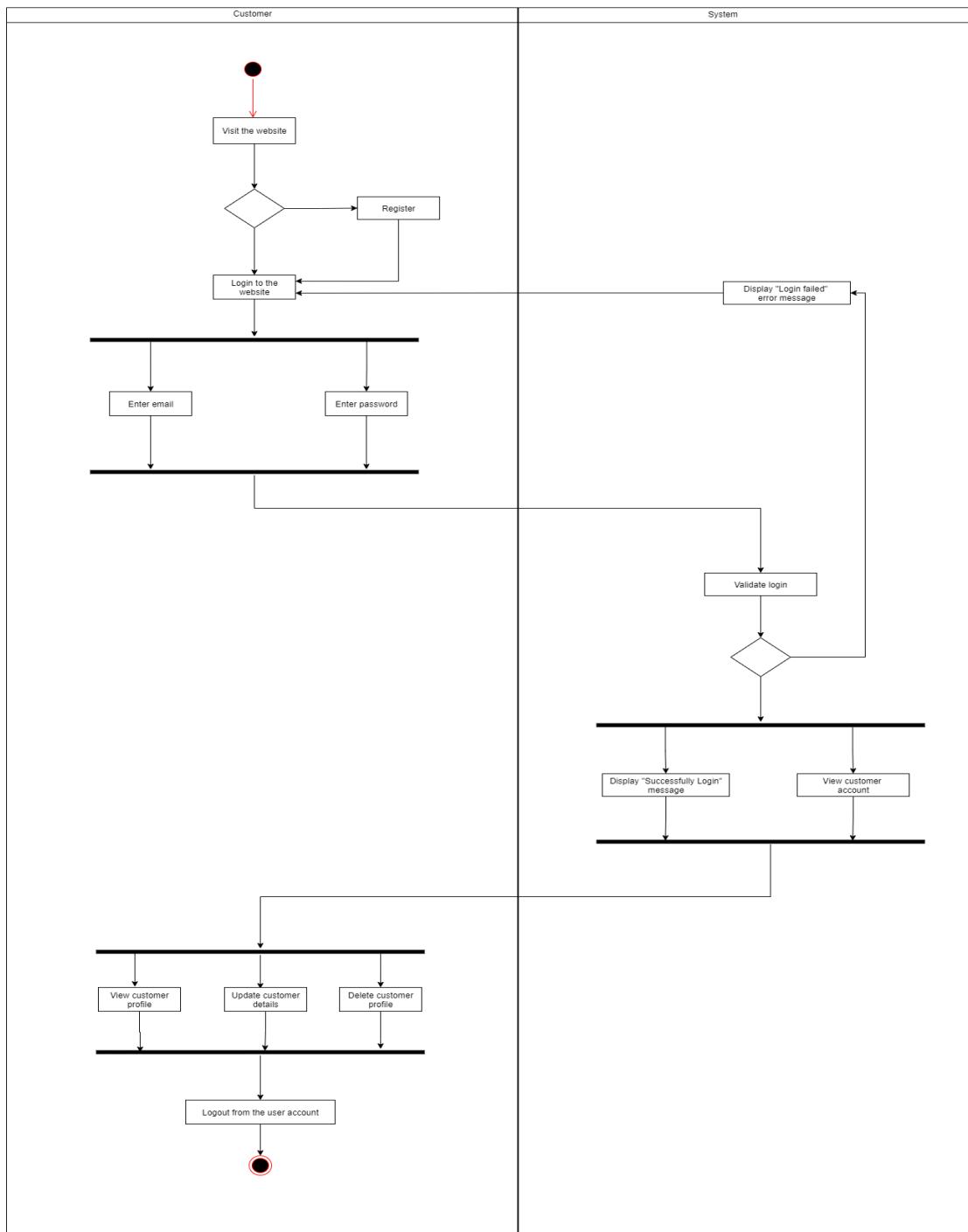


Figure 10:Figure 2.1.2.2 Activity Diagram for Customer Management

Store Management

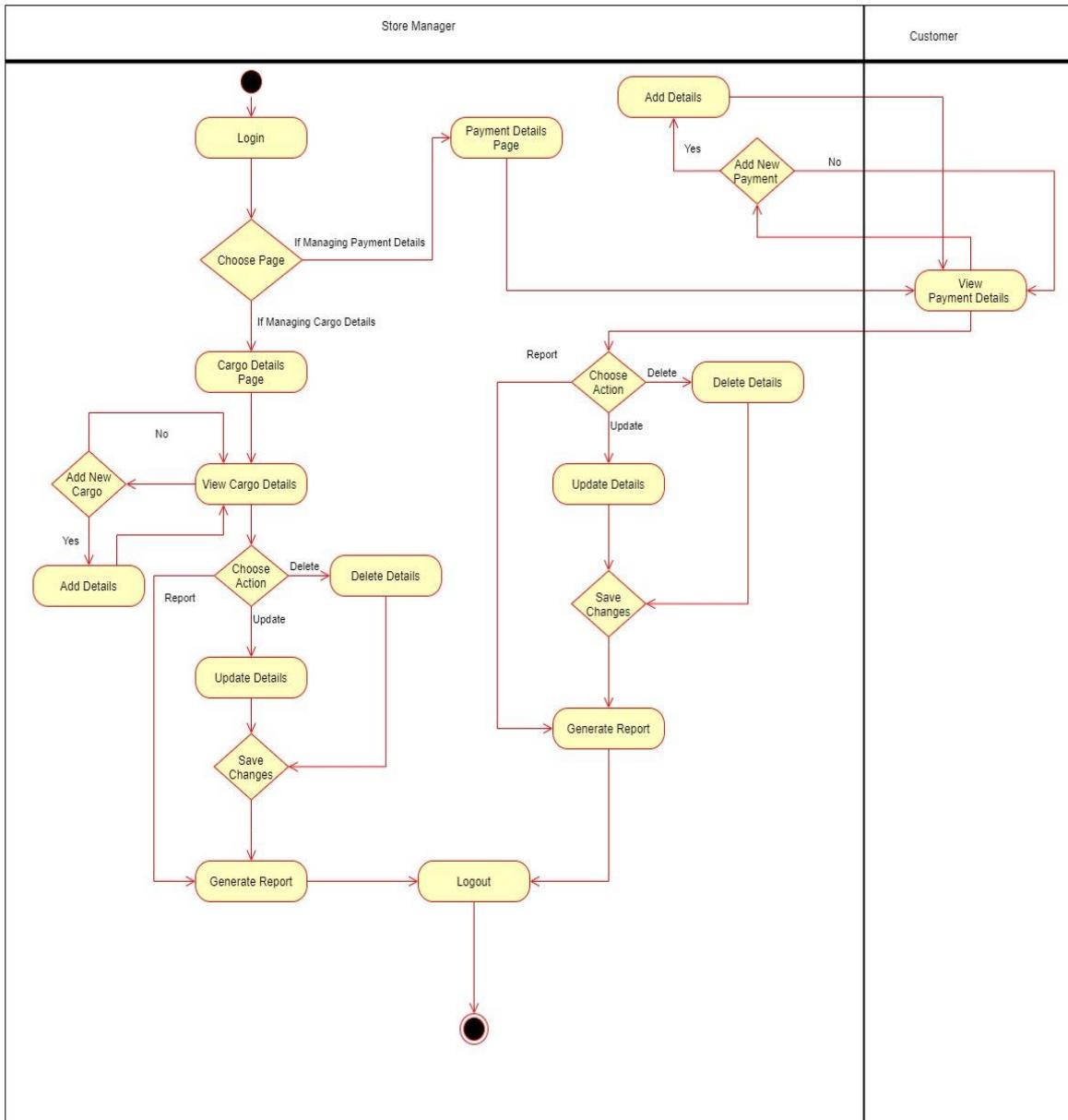


Figure 11:Figure 2.1.2.3 Activity Diagram for Store Management

Distribution Management

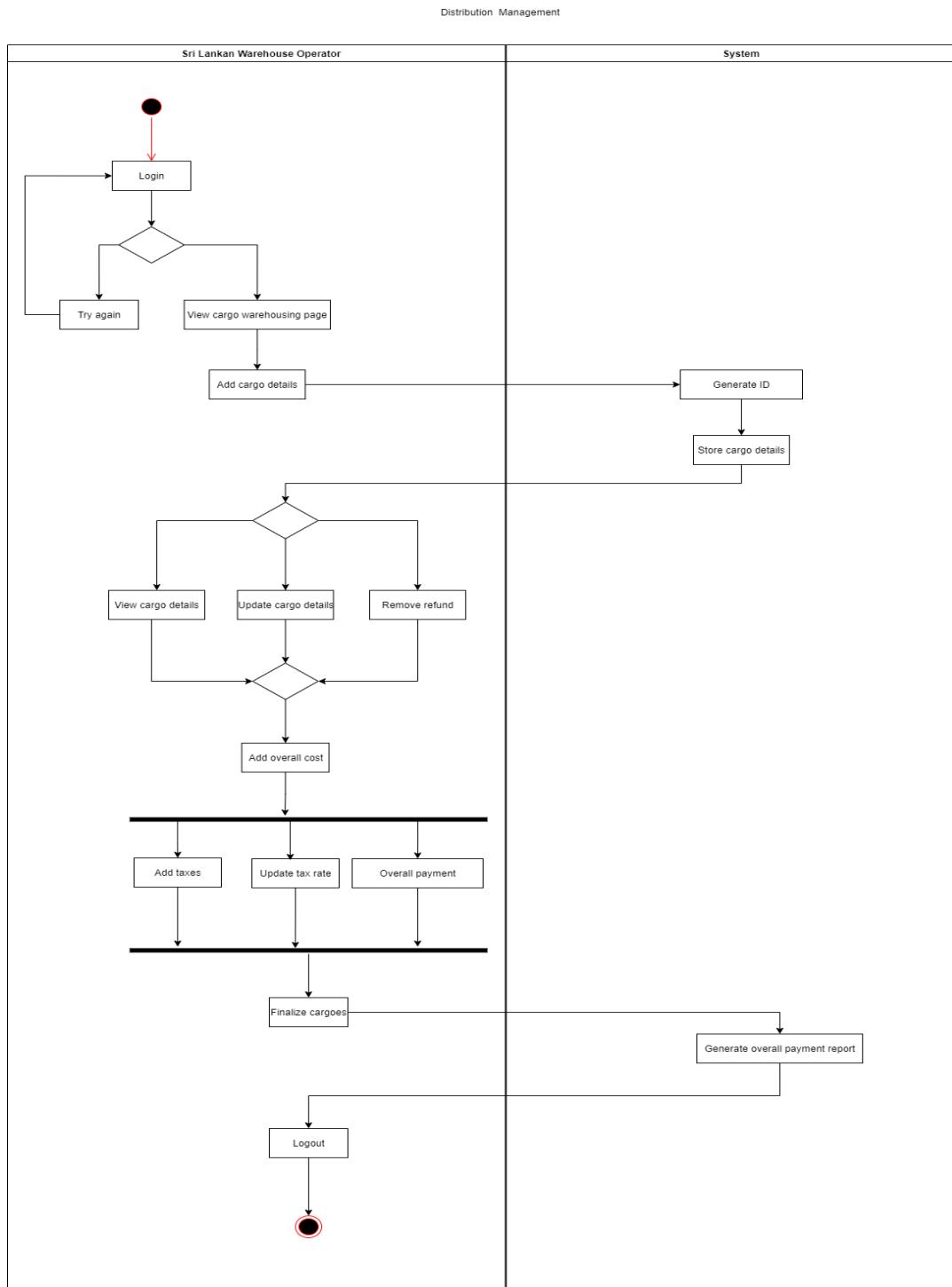


Figure 12:Figure 2.1.2.4 Activity Diagram for Distribution Management

Delivery Management

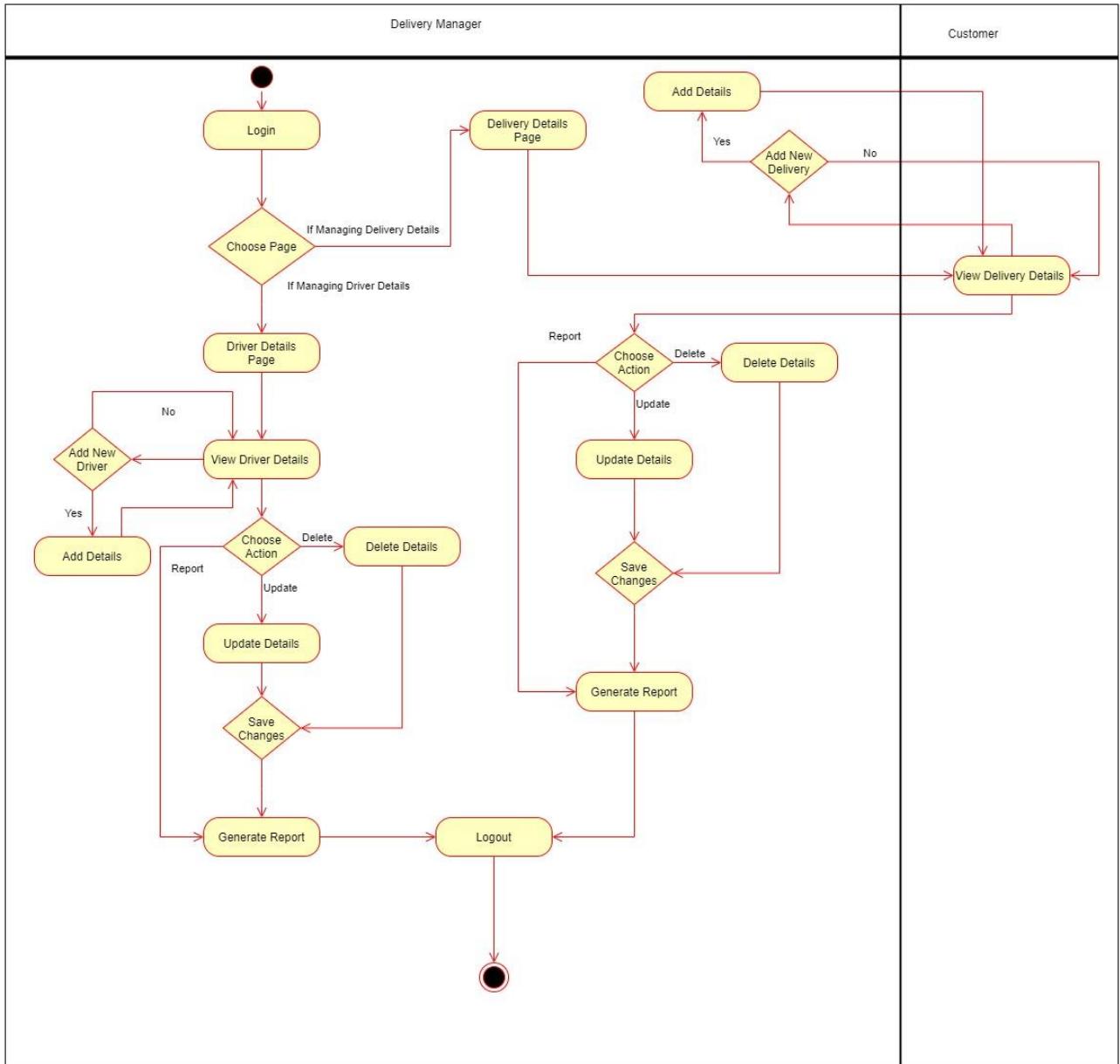


Figure 13:Figure 2.1.2.5 Activity Diagram for Delivery Management

User Management

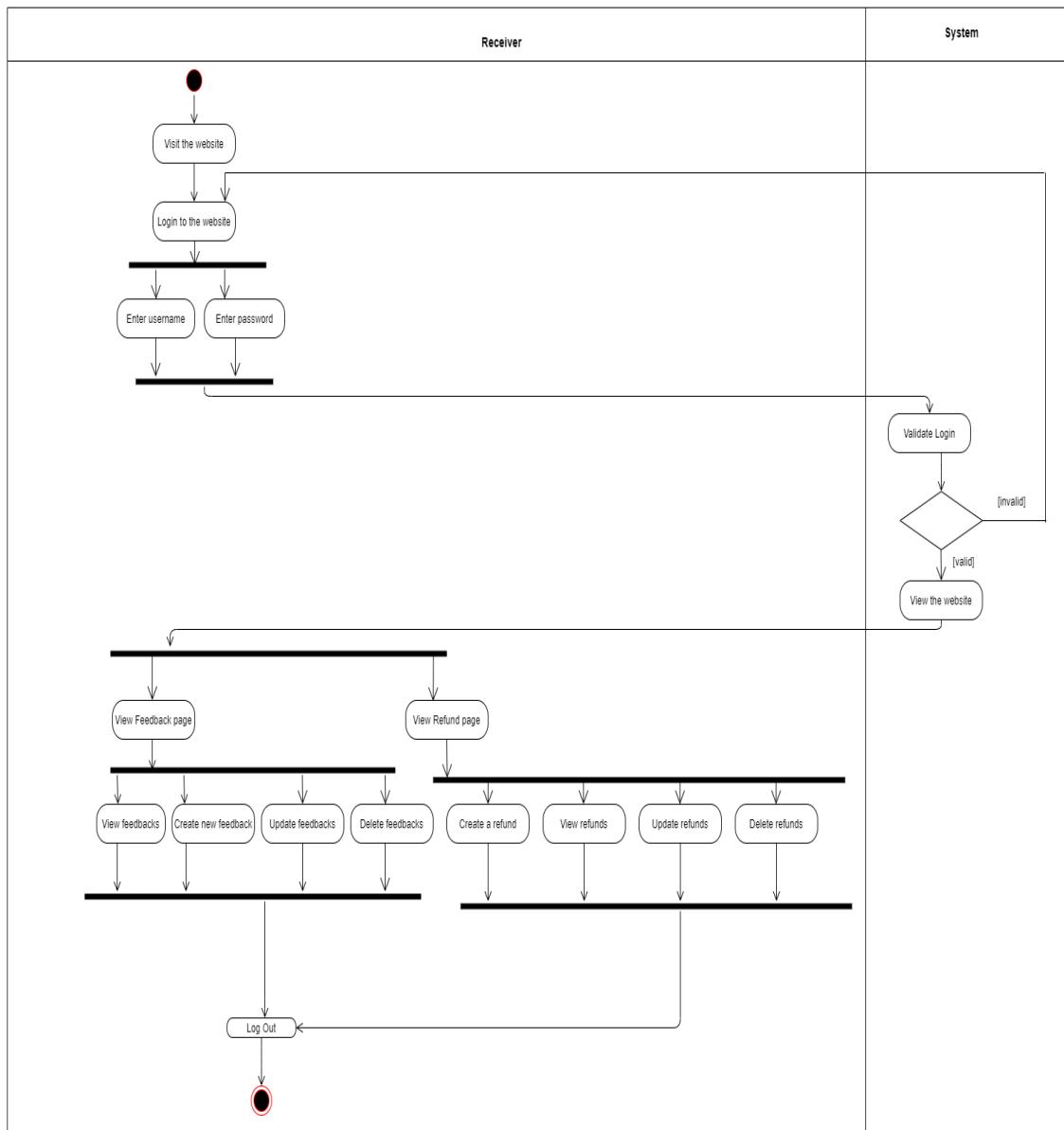


Figure 14:Figure 2.1.2.6 Activity Diagram for User Management

Showroom Management

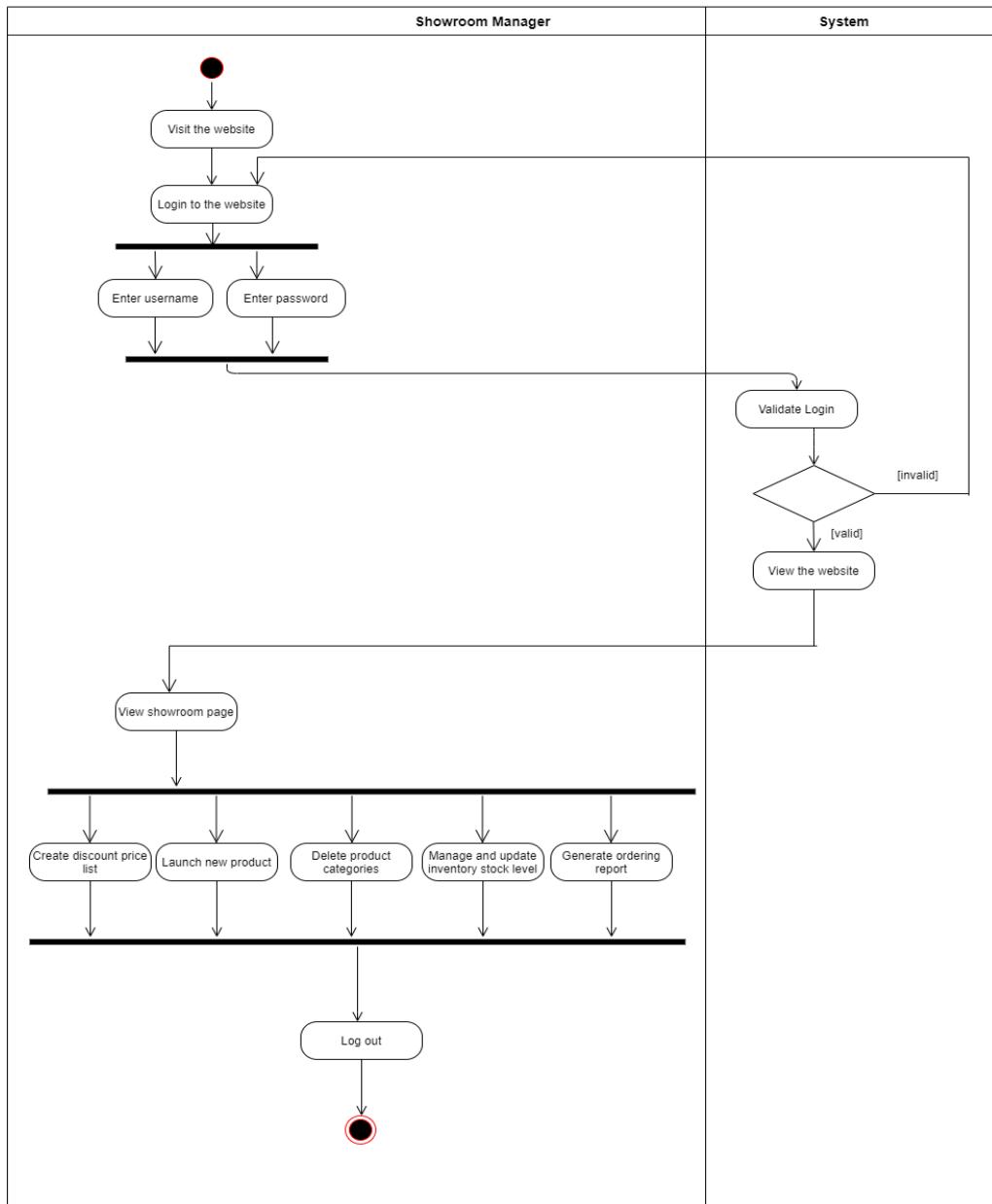


Figure 15: Figure 2.1.2.7 Activity Diagram for Showroom Management

Finance Management

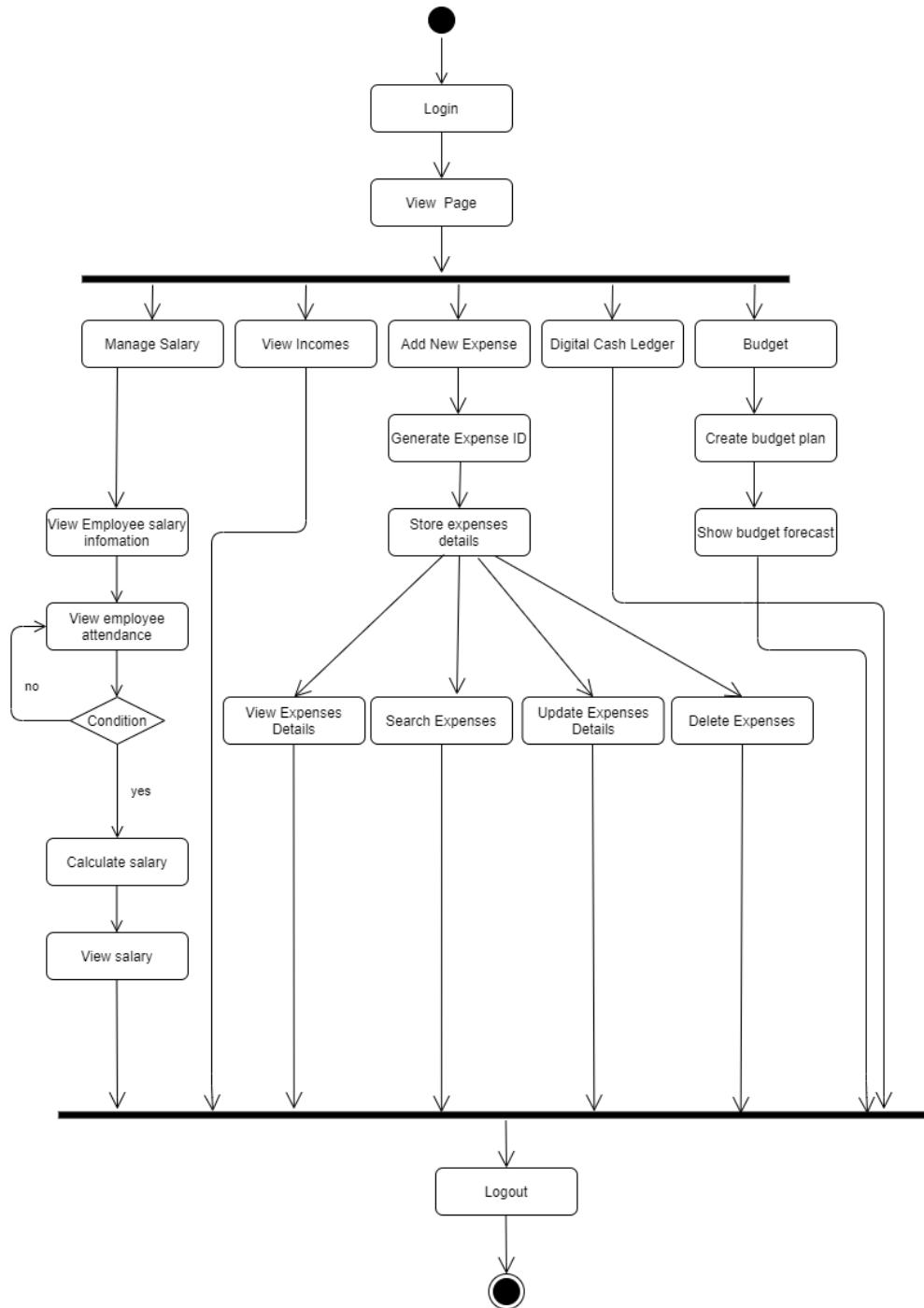


Figure 16:Figure 2.1.2.7 Activity Diagram for Finance Management

Owner Management

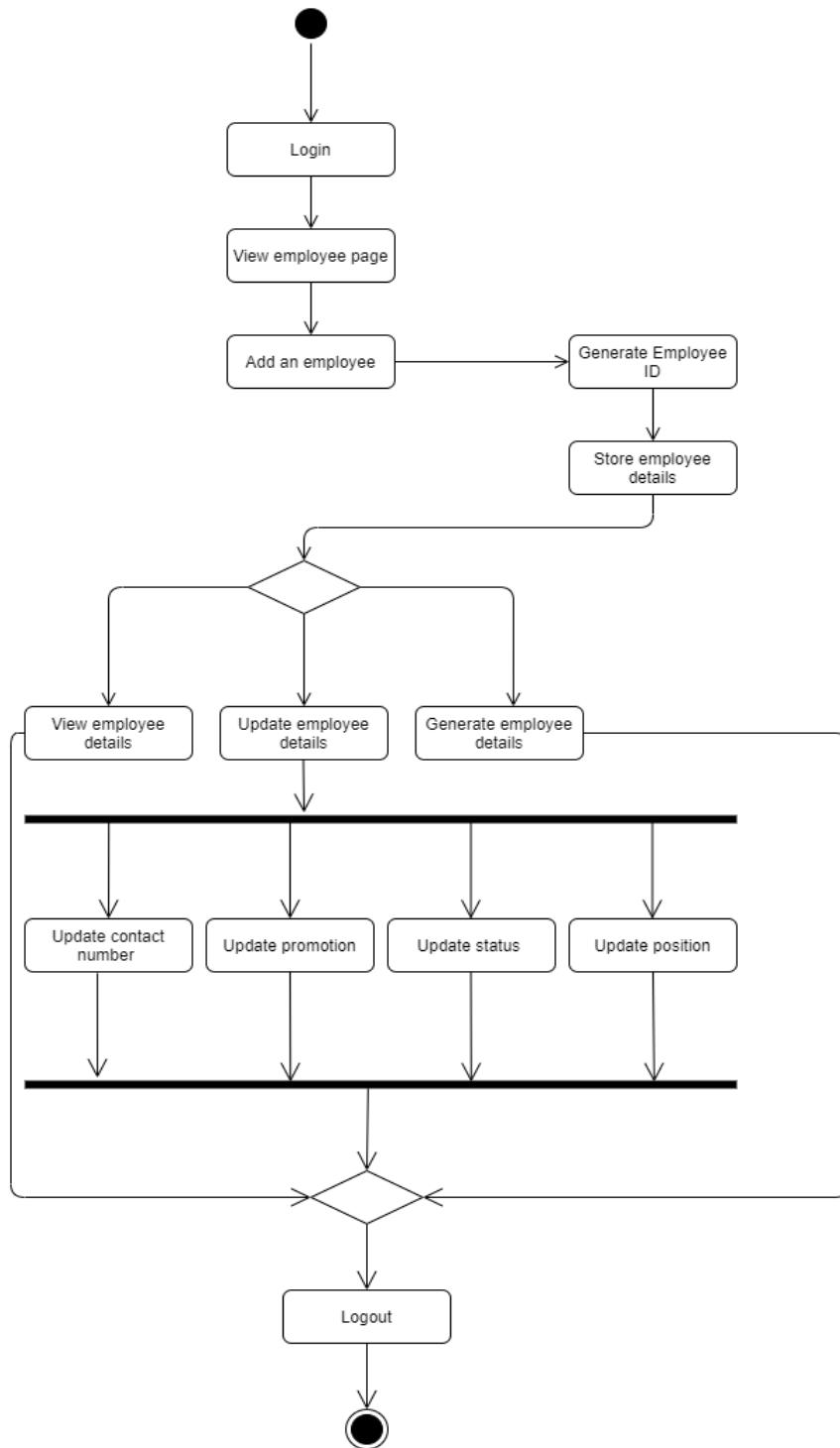


Figure 17:Figure 2.1.2.8 Activity Diagram for Owner Management

2.2 Design

2.2.1. High Level Architecture

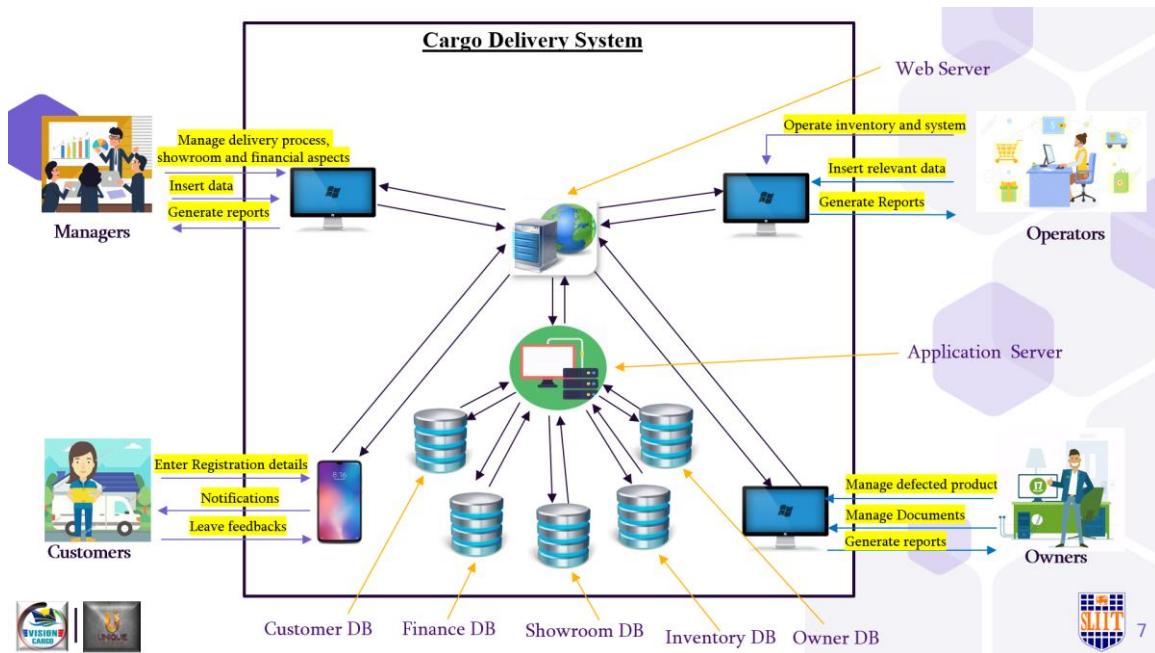


Figure 18:Figure 2.2.1.1 High Level Architecture Diagram

2.2.2. Class Diagram

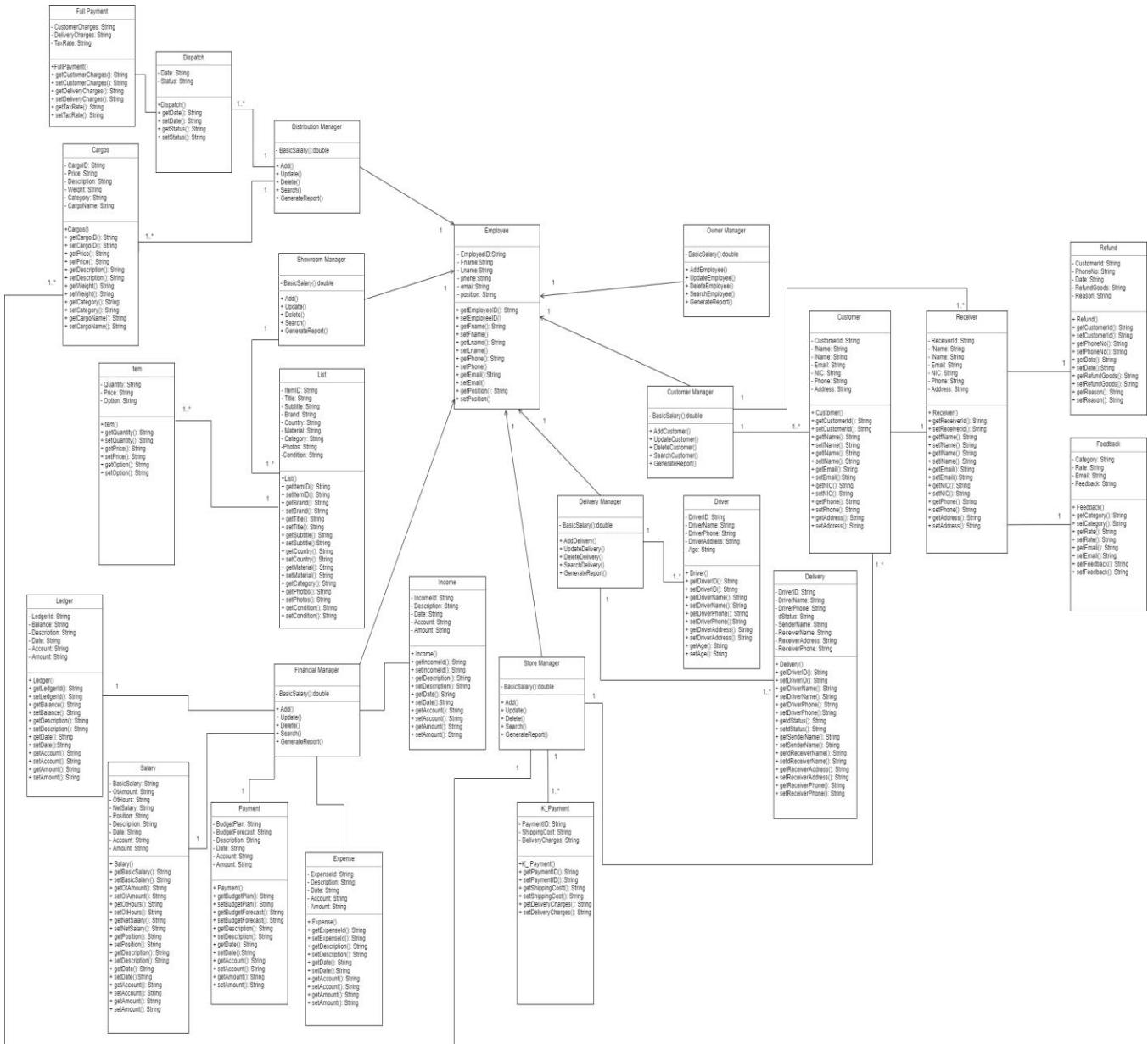


Figure 19:Figure 2.2.2.1 Class Diagram

2.2.3 Entity Relationship Diagram

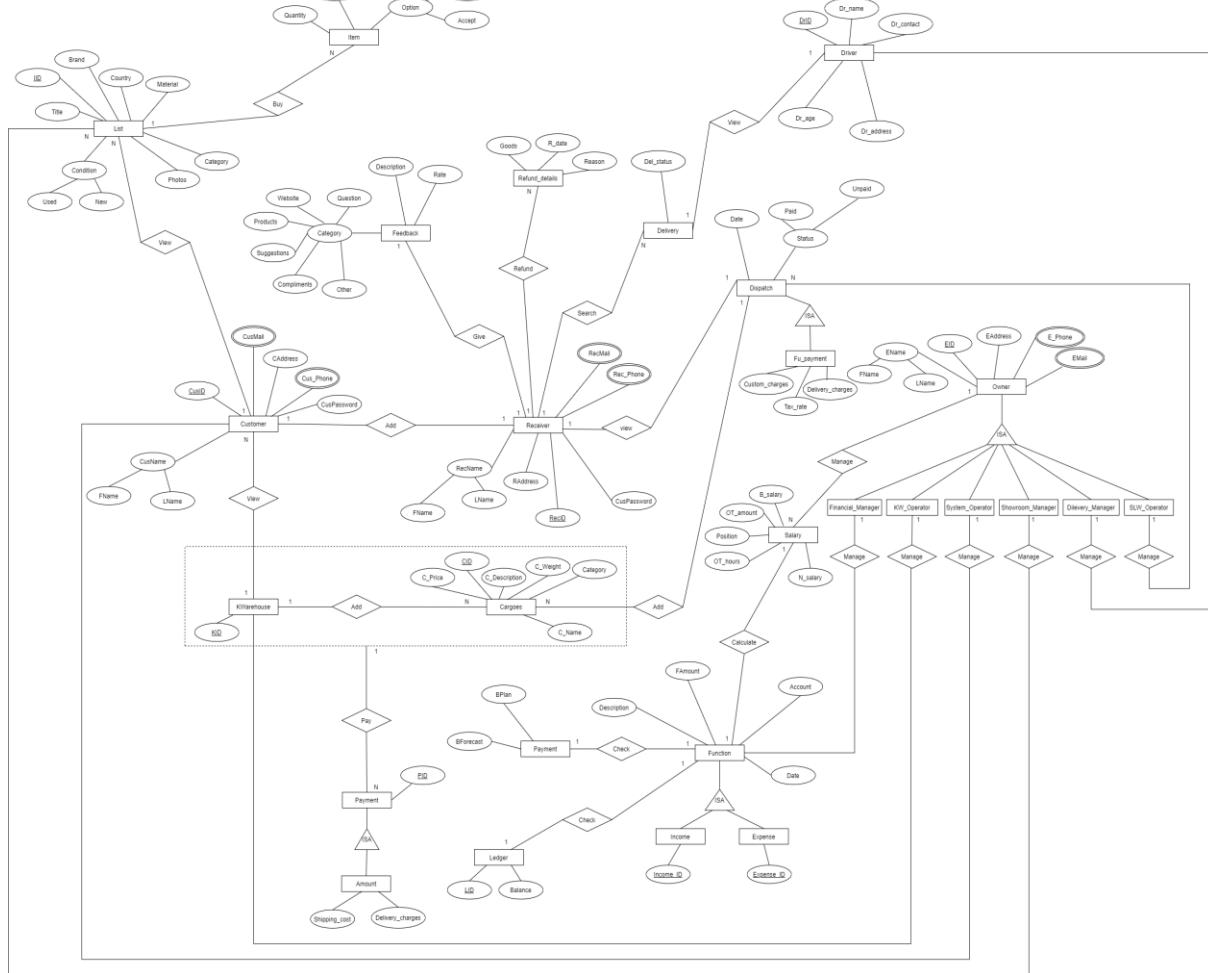
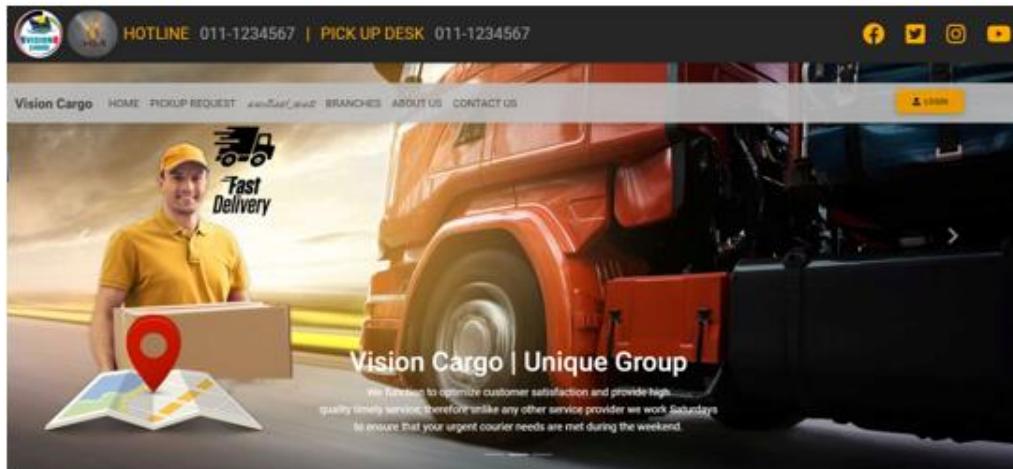


Figure 20:Figure 2.2.3.1 Entity Relationship Diagram

2.2.4. User Interfaces



ABOUT US

Vision Cargo

Vision Cargo™ and "Unique Importers" are cargo delivery companies which are in Korea and Sri Lanka. "Vision Cargo" operates its business in Korea and Unique Importers was established in Sri Lanka to offer its service to local customers. Because of the necessity arose to establish a cargoes delivery system to deliver the cargoes of the people in Korea to Sri Lanka, the Vision Cargo started its business with the Unique Importers. And the Unique Importers opened a showroom in 2015 at Kadawatha to sell imported goods from Korea as an extra service to its local customers. They allow customers to buy the goods via online or visiting the showroom.

[READ MORE](#)

OUR SERVICES

24h Delivery Services

Special Services

Online Shopping Services

Efficient Billing Services

කොරෝන් කැබි

ඡනාවියන් කොටස
Unique Importers
77C,Ganemulla Road,
Kadawatha

[VISIT US](#)

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වඩා අඩු මේලට
කොරෝන් හාන්ස් මේලදී ගනන
කොරෝන් කැබිල්
මෙතු එනත..!

CALL NOW
0770055695

Unique Importers
77C,Ganemulla Road, Kadawatha

VISION CARGO | UNIQUE GROUP

Trustable cargo service provider in Sri Lanka

FAST, SIMPLE AND QUICK
CARGO SERVICE IN SRI LANKA

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Figure 21:Interface - Home

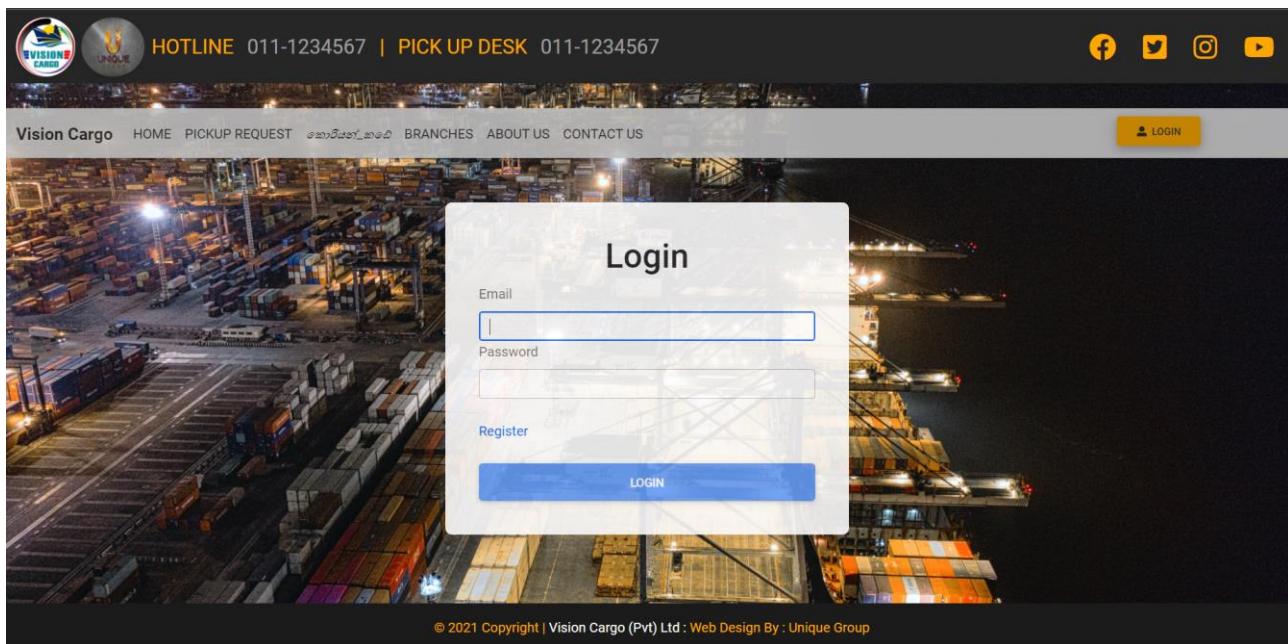


Figure 22:Interface – Login

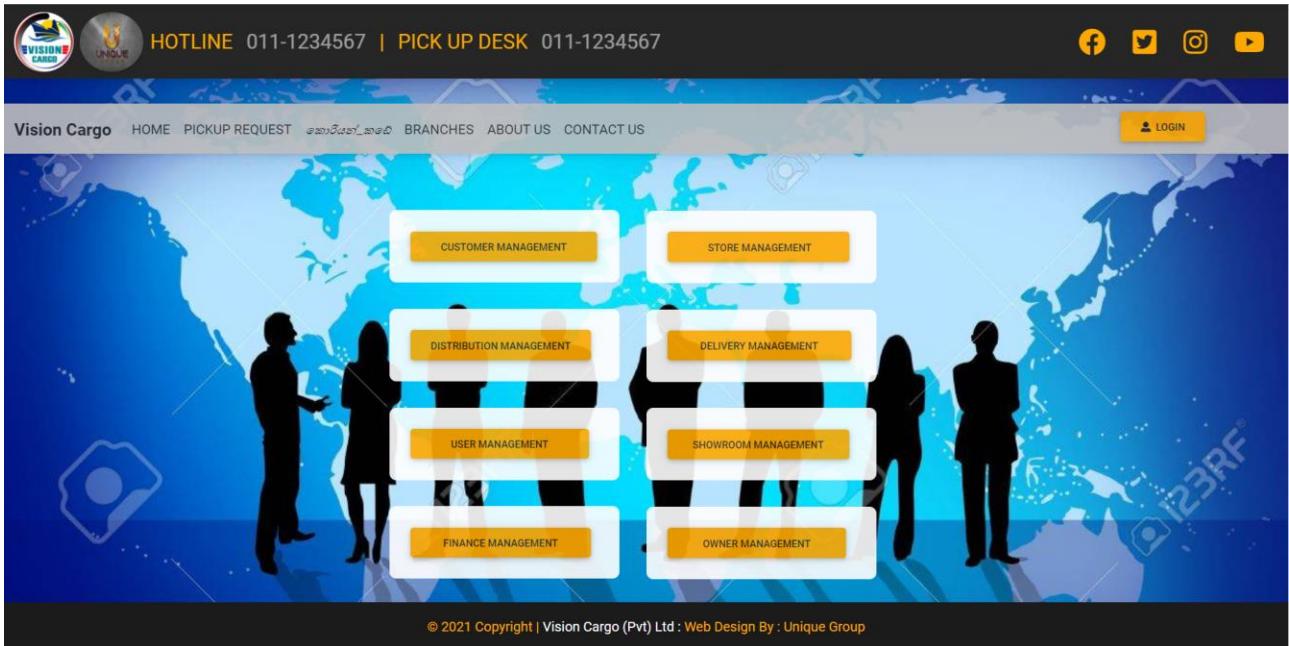
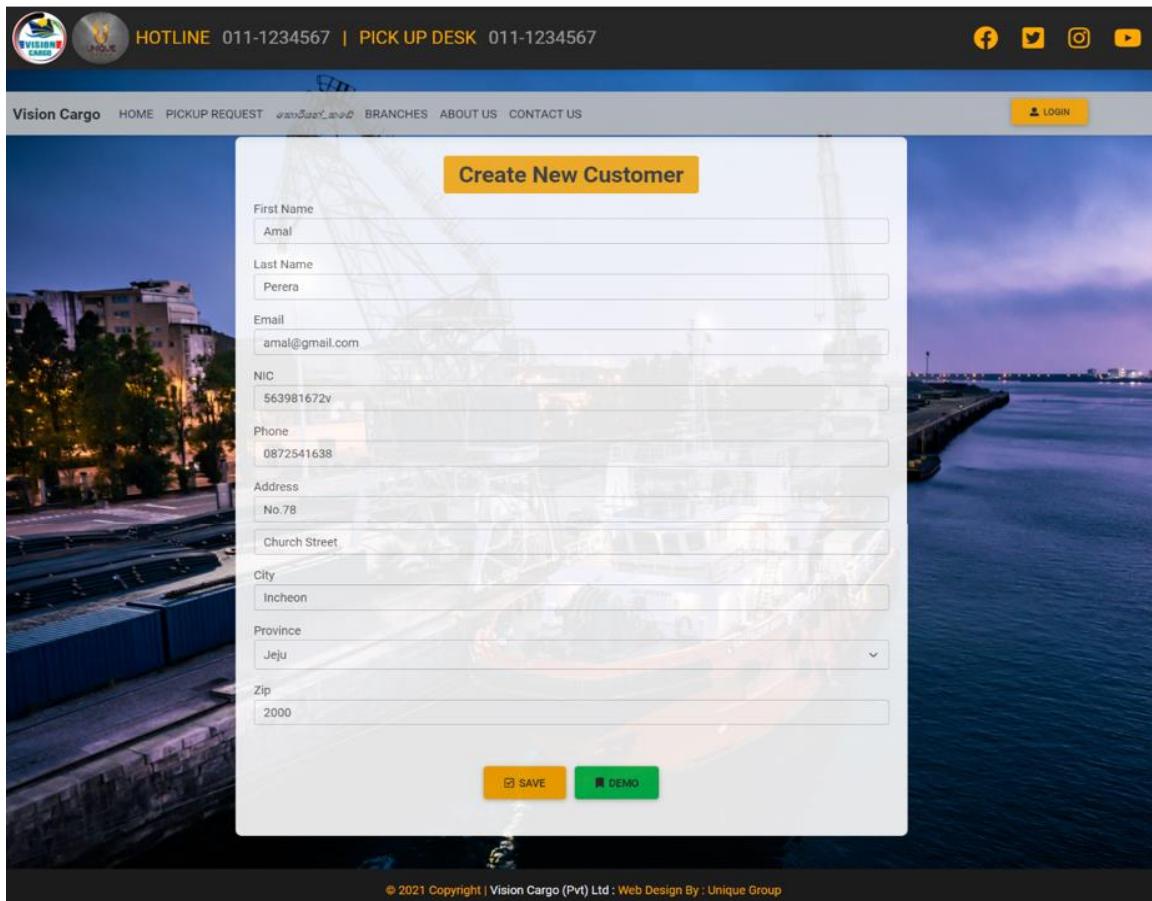


Figure 23:Interface - Dashboard

1.1.1. User Interfaces

Customer Management



HOTLINE 011-1234567 | PICK UP DESK 011-1234567

Vision Cargo HOME PICKUP REQUEST BRANCHES ABOUT US CONTACT US LOGIN

Create New Customer

First Name
Amal

Last Name
Perera

Email
amal@gmail.com

NIC
563981672v

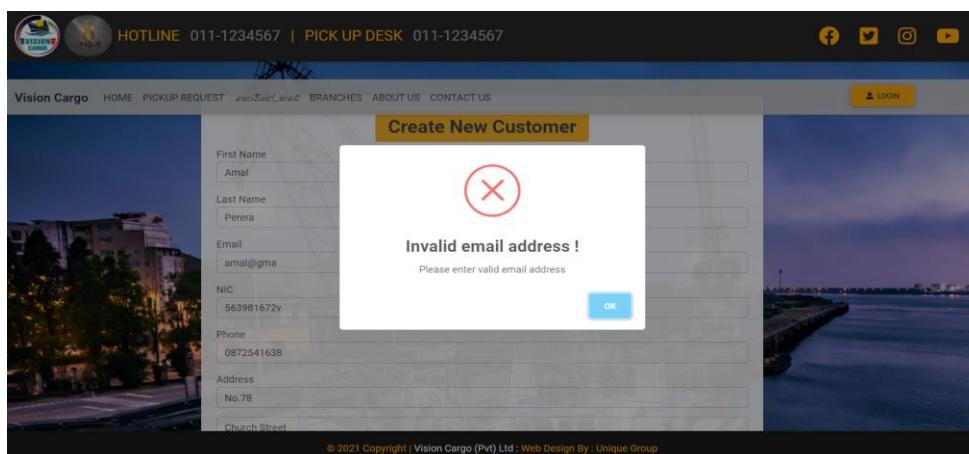
Phone
0872541638

Address
No. 78
Church Street
City
Incheon
Province
Jeju
Zip
2000

SAVE DEMO

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Figure 24: Figure 2.2.4.1 Interface - Customer Management



HOTLINE 011-1234567 | PICK UP DESK 011-1234567

Vision Cargo HOME PICKUP REQUEST BRANCHES ABOUT US CONTACT US LOGIN

Create New Customer

First Name
Amal

Last Name
Perera

Email
amal@gma

NIC
563981672v

Phone
0872541638

Address
No. 78
Church Street

OK

Invalid email address !
Please enter valid email address

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Figure 25: Figure 2.2.4.2 Interface - Customer Management

VISION CARGO

HOTLINE 011-1234567 | PICK UP DESK 011-1234567

Search

[LOG IN](#)

Customer Details

No	First Name	Last Name	Email	NIC	Phone	Address	Street	City
1	Nimal	Liyanage	nimal@gmail.com	762865197v	0776241733	No.75	Rose Lane	Seoul
2	Kasun	fernando	kasu12@gmail.com	982345239V	0772323776	teukbyeolsi, Jongno-gu, Sajik-ro 3-gil 23	102-dong 304-ho Hong Gildong gwaha	Seoul

No	First Name	Province	ZIP	Action
1	Nimal	Gangwon	3000	EDIT DELETE
2	Kasun	SouthJeolla	12500	EDIT DELETE

[ADD NEW CUSTOMER](#) [DASH BOARD](#)

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Figure 26: Figure 2.2.4.3 Interface - Customer Details of Customer Management



Customer report

No	First Name	Email	NIC	Phone	Address
1	Nimal	nimal@gmail.com	7628851087v	0776241733	Seoul
2	Kalum	kalum@gmail.com	897625132v	0817652389	Daegu
3	Amal	amal@gmail.com	563981672v	0872541638	Incheon
4	Lalith	lalith@gmail.com	768020123v	0907832287	Ulsan
5	Upul	upul@gmail.com	778034217v	0806721345	Gwangju
6	Amal	amal@gmail.com	563981672v	0872541638	No.78

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Figure 27: Figure 2.2.4.4 Interface - Customer Report of Customer Management

Store Management

The screenshot shows a web-based store management system for Vision Cargo. The header includes the Vision Cargo logo, a circular emblem with a lion, and contact numbers: HOTLINE 011-1234567 | PICK UP DESK 011-1234567. Navigation links include VISION CARGO, HOME, PICKUP REQUEST, BRANCHES, ABOUT US, CONTACT US, and a LOGIN button. The main content area is titled "Cargo Information". It contains four sections: "Receiver Information", "Sender Information", and "Product Details", each with several input fields. The "Receiver Information" section includes fields for Name, Contact, Email, and Address. The "Sender Information" section includes fields for Name, Contact, Email, and Address. The "Product Details" section includes fields for Product Number, Type, Weight, and Shipping Cost. At the bottom are "SAVE" and "RESET" buttons. The background of the page features a photograph of a port at night with a large ship and industrial structures.

Figure 28: Figure 2.2.4.5 Interface - Store Management

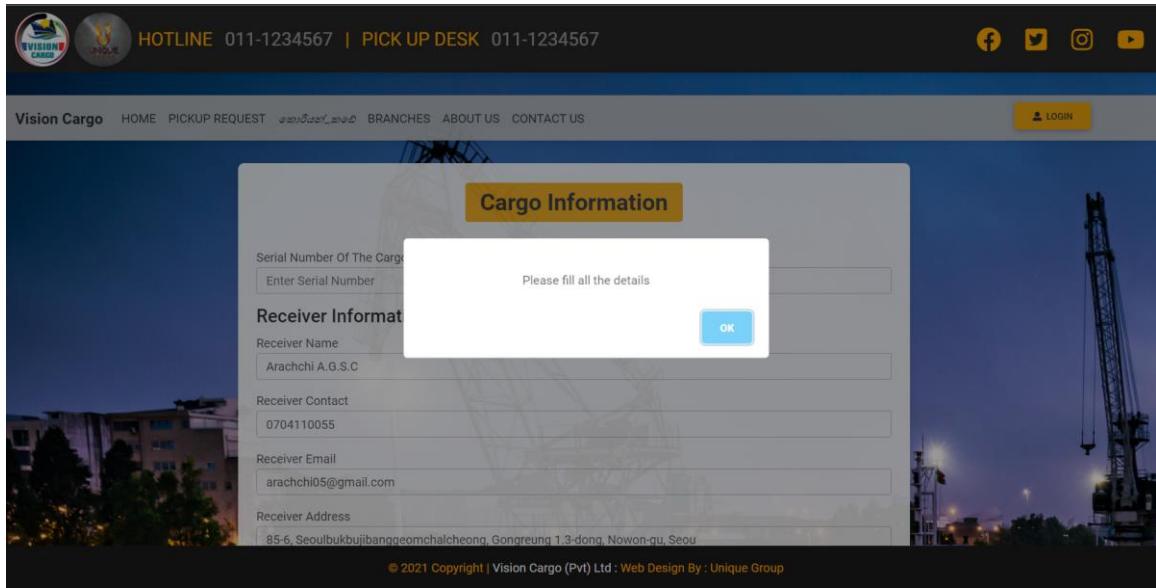


Figure 29: Figure 2.2.4.6 Interface - Store Management

#	Receiver Information	SerialNumber	ReceiverName	ReceiverContact	ReceiverEmail	ReceiverAddress	Province	District	City
1	Receiver Information	AB0001	Surath Chathuranga	0512345689	surathc@gmail.com	85-6, Seoulbukbjubanggeomchilcheong, Gongreung 1.3-dong, Nowon-gu, Seoul	Gangwon	Nowon-gu	Seoul

#	Sender Information	SerialNumber	SenderId	SenderName	SenderContact	SenderEmail	SenderAddress	Province	District	City
1	Sender Information	AB0001	Urmaya Ekanayake	0704110950	umaya1999@gmail.com	No: 492, Watadageya road, Medirigiriya	Central	Kandy	Kandy	

#	Product Details	SerialNumber	ProductNo	ProductType	Weight	ShippingCost	Action
1	Product Details	AB0001	01	tv	3kg	500	<button>EDIT</button> <button>DELETE</button>

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Figure 30: Figure 2.2.4.7 Interface -Cargo Information of Store Management



Payment Report

#	SerialNumber	Name	Contact	ProductType	DeliveryCharges	TotalShippingCost	Total
1	AB0001	Surath Chathuranga	0704110050	TV	500	400	900
2	AB0002	Arachchi A.G.B.C	0704110055	Phone	400.00	250.00	650
3	AB0002	Arachchi A.G.B.C	0704110055	Phone	400.00	250.00	650

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Figure 31: Figure 2.2.4.8 Interface - Customer Report of Store Management

Distribution Management

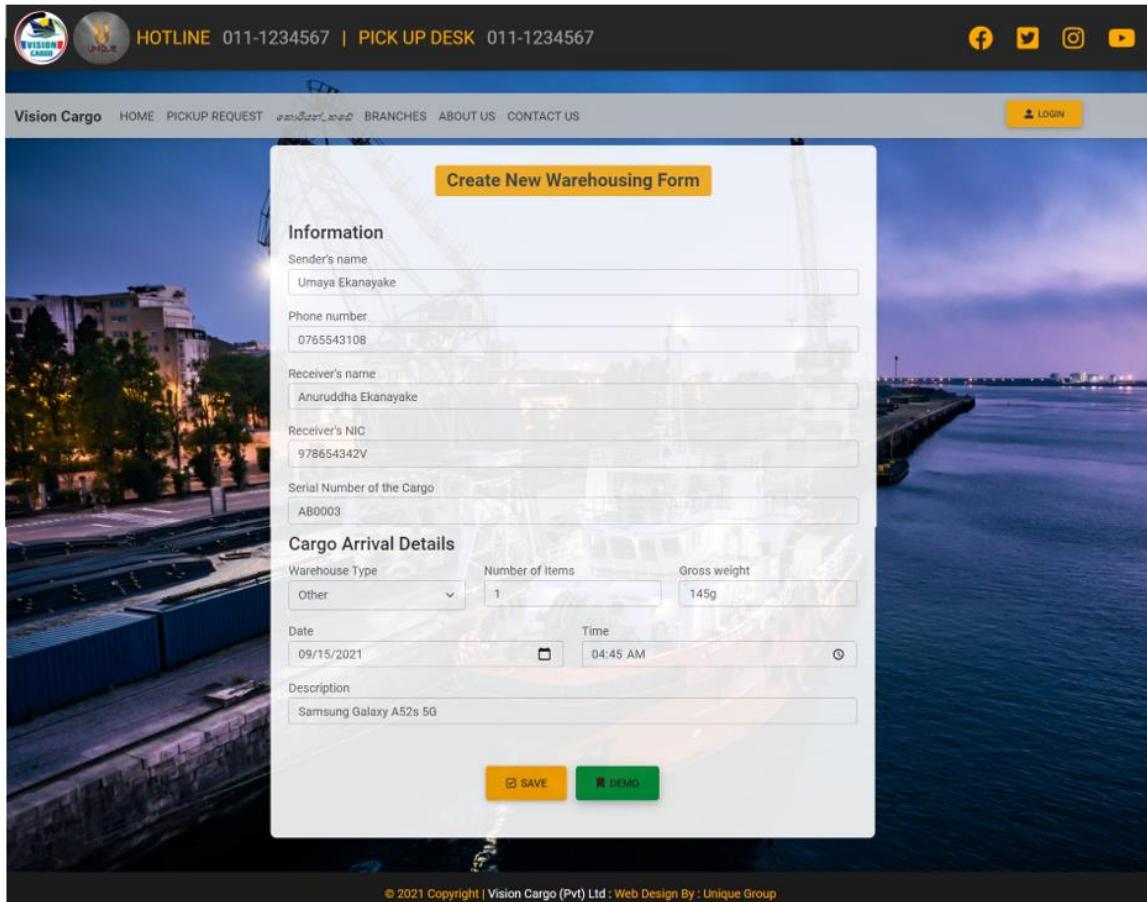


Figure 32: Figure 2.2.4.9 Interface - Distribution Management

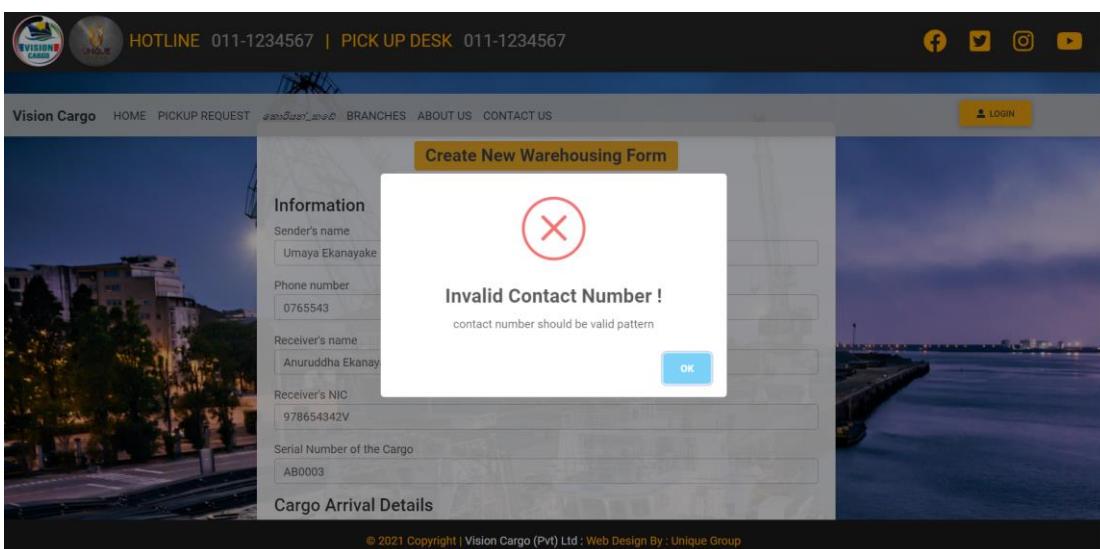


Figure 33: Figure 2.2.4.10 Interface - Distribution Management

The screenshot shows the Vision Cargo website interface. At the top, there are two circular logos: one for Vision Cargo and another for POLAR. To the right of the logos, the text "HOTLINE 011-1234567 | PICK UP DESK 011-1234567" is displayed. On the far right, there is a search bar with a magnifying glass icon and a yellow "SEARCH" button, along with social media icons for Facebook, Twitter, Instagram, and YouTube.

The main navigation menu includes "Vision Cargo", "HOME", "PICKUP REQUEST", "සංස්කරණ මාරුධිය", "BRANCHES", "ABOUT US", "CONTACT US", and a "Dropdown" menu. A "LOG IN" button is located in the top right corner.

A large banner image of a cargo crane is visible in the background. Overlaid on the banner is a yellow box containing the text "All Cargo Warehousing Details".

Information

#	SerialNumber	SenderName	PhoneNumber	ReceiverName	ReceiverNIC
1	VUCU000042	A.Ekanayake	0777654327	S.Weerasooriya	998765422V
2	VUCU000034	S.Aarachchi	0776543218	U.Ekanayake	998654382V

Cargo arrival details

#	SerialNumber	WarehouseType	NoOfItems	GrossWeight	Date	Time	Description	Action	
1	Cargo arrival	VUCU000042	Other	1	168kg	2021-09-20	21:46	SAMSUNG GALAXY Z FOLD 3 5G	EDIT DELETE
2	Cargo arrival	VUCU000034	Open Space	1	45kg	2021-09-21	03:04	KONKA 55" 4K UHD Smart TV	EDIT DELETE

Buttons:

- NEW WAREHOUSING FORM
- DASH BOARD

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Figure 34: Figure 2.2.4.11 Interface - Cargo Warehousing Details of Distribution Management



Receiver Report

#	SerialNumber	ReceiverName	ReceiverNIC	TaxCharges	CustomCharges	DeliveryCharges	FullPayment
1	AB0001	G.Weerasinghe	870876542V	1000.00	1200.00	2800.00	24800
2	AB0002	P.Koswatta	99876543V	308.00	354.00	4000.00	4752

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Figure 35: Figure 2.2.4.12 Interface - Receiver Report of Distribution Management

Delivery Management

The screenshot shows the 'Create New Delivery Form' page. The form fields are as follows:

- Driver ID: D0001
- Driver Name: Jagath Perera
- Driver Contact: 0791290321
- Delivery Status: Select Delivery Status (dropdown menu)
- Sender's Name: Sulochana Rathnayake
- Receiver's Name: Sampath Perera
- Receiver's Address: 110 narangodapalawa, batuwatta
- Receiver Contact: 0771234562

At the bottom right of the form are two buttons: a yellow 'SAVE' button with a checkmark icon and a green 'DEMO' button.

Figure 36: Figure 2.2.4.13 Interface - Delivery Management

The screenshot shows the same 'Create New Delivery Form' page, but with an error message displayed in a modal dialog box. The message reads:

Invalid Contact Number !
contact number should be valid pattern

At the bottom right of the dialog is a blue 'OK' button.

Figure 37: Figure 2.2.4.14 Interface - Delivery Management

The screenshot shows the 'All Delivery Details' page of the Vision Cargo website. At the top, there are two circular logos: one for 'VISION CARGO' and another for 'UNIQUE'. To the right of the logos are the 'HOTLINE' number (011-1234567) and the 'PICK UP DESK' number (011-1234567). A search bar with a yellow 'SEARCH' button is located at the top right. Below the header, the navigation menu includes 'HOME', 'PICKUP REQUEST', a Sinhala language link, 'BRANCHES', 'ABOUT US', 'CONTACT US', and a 'Dropdown' menu. On the far right of the menu is a 'LOGIN' button. The main content area features a large banner with a crane image and the title 'All Delivery Details'. Below the banner is a table with two rows of delivery information. The table columns are: No, Driver ID, Driver Name, Driver Contact, Delivery Status, Sender's Name, Receiver's Name, Receiver's Address, Receiver Contact, and Action. The first row (No 1) shows a delivery from Saman Fernando (Driver ID D0002) to Sanjeewa Perera. The second row (No 2) shows a delivery from Jude Perera (Driver ID D0003) to Kamala Perera. Each row has 'EDIT' and 'DELETE' buttons in the 'Action' column. At the bottom of the page is a footer banner with a port image, containing links for 'ADD NEW DELIVERY DETAILS' and 'DASH BOARD', along with the copyright notice: '© 2021 Copyright | Vision Cargo (Pvt) Ltd : Web Design By : Unique Group'.

No	Driver ID	Driver Name	Driver Contact	Delivery Status	Sender's Name	Receiver's Name	Receiver's Address	Receiver Contact	Action
1	D0002	Saman Fernando	0791289323	Delivered	Upul Fernando	Sanjeewa Perera	No.321 Malpitiya, Kurunegala	0711357323	EDIT DELETE
2	D0003	Jude Perera	0738901256	On Process	Sumudu Wijesinghe	Kamala Perera	No: 492, Watadageya road, Medirigiriya	0741258732	EDIT DELETE

Figure 38: Figure 2.2.4.15 Interface - Delivery Details of Delivery Management



Delivery Details Report

Driver ID	Driver Name	Driver Contact	Delivery Status	Sender's Name	Receiver's Name	Receiver's Address	Receiver Contact
D0002	Saman Fernando	0791289323	Delivered	Upul Fernando	Sanjeewa Perera	No.321 Malpitiya, Kurunegala	0711357323
D0003	Jude Perera	0738901256	On Process	Sumudu Wijesinghe	Kamala Perera	No: 492, Watadageya road, Medirigiriya	0741258732

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Figure 39: Figure 2.2.4.16 Interface - Delivery Details Report of Delivery Management

User Management

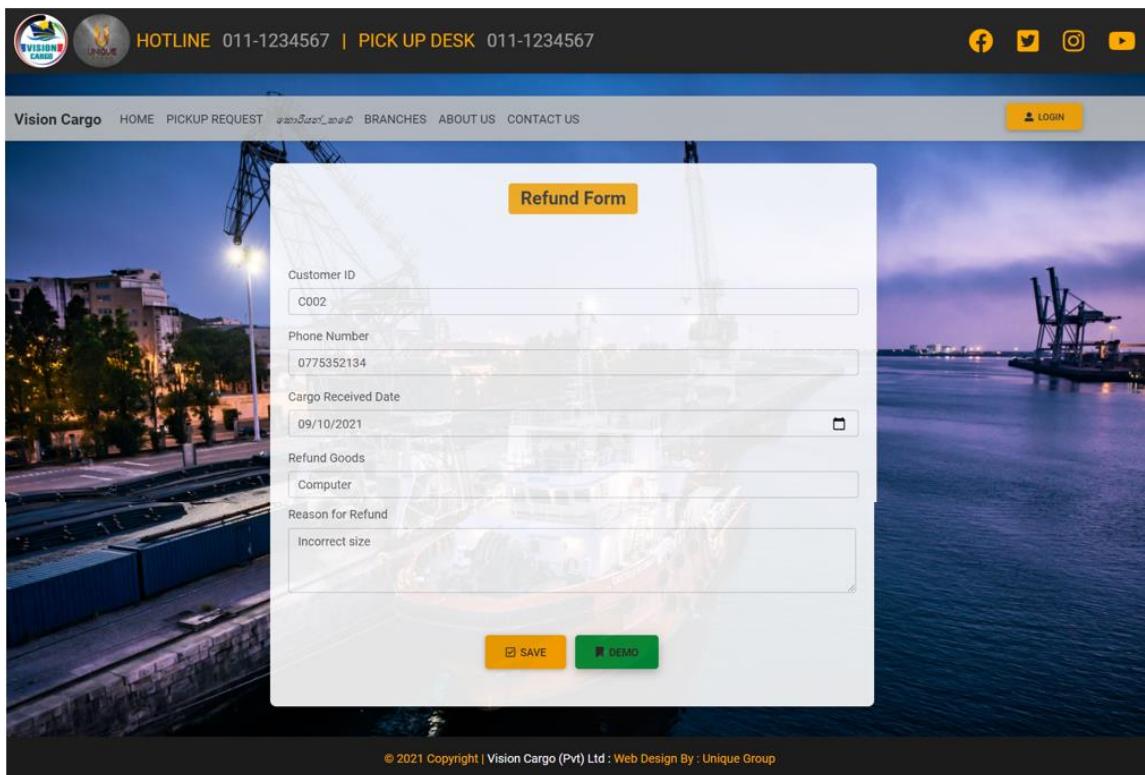


Figure 40: Figure 2.2.4.17 Interface - User Management

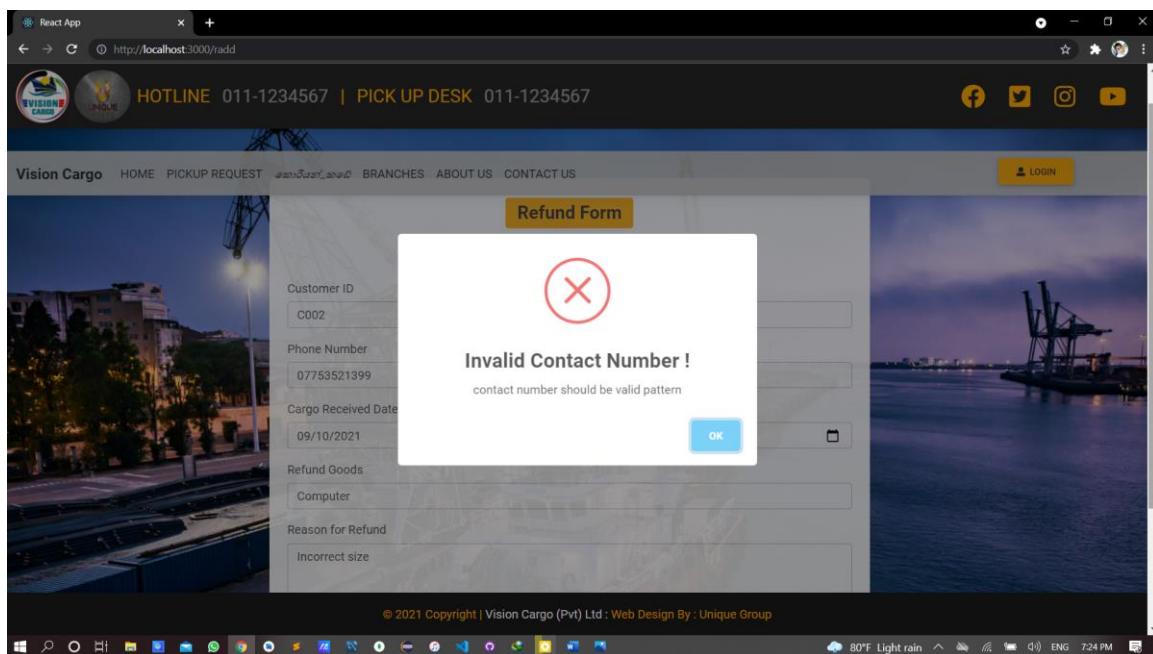


Figure 41: Figure 2.2.4.18 Interface - User Management

The screenshot displays the 'All Feedbacks' section of the Vision Cargo website. At the top, there are two circular logos: one for 'VISION CARGO' and another for 'UNIQUE'. The header includes the text 'HOTLINE 011-1234567 | PICK UP DESK 011-1234567' and a search bar with a yellow 'SEARCH' button. To the right are social media icons for Facebook, Twitter, Instagram, and YouTube. Below the header, the navigation menu includes 'Vision Cargo', 'HOME', 'PICKUP REQUEST', a Tamil link, 'BRANCHES', 'ABOUT US', 'CONTACT US', 'Dropdown ▾', and a 'LOGIN' button. A large yellow banner in the center of the page reads 'All Feedbacks'. The main content area contains a table with the following data:

No	Category	Rate	Email	Feedback	Action
1	Products	3	gavi@gmail.com	Good	<button>EDIT</button> <button>DELETE</button>
2	Compliments	2	danu123@gmail.com	Not Good	<button>EDIT</button> <button>DELETE</button>
3	Website	2	senu@gmail.com	Not Good	<button>EDIT</button> <button>DELETE</button>

At the bottom of the page, there is a footer banner with the text '© 2021 Copyright | Vision Cargo (Pvt) Ltd : Web Design By : Unique Group' and two buttons: 'ADD NEW FEEDBACK' and 'DASH BOARD'.

Figure 42: Figure 2.2.4.19 Interface - Feedback Details of User Management



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Refund Details Report

#	Customer ID	Phone Number	Cargo Received Date	Refund Goods	Reason for Refund
1	C001	0772343456	2021-09-17	Television	Incorrect order
2	C002	0775352135	2021-09-10	Computer	Incorrect size
3	C003	0775352134	2021-09-10	Computer	Incorrect size
4	C004	0773925562	2021-10-13	Chairs	Incorrect order
5	C005	0772387455	2021-10-04	Television	Incorrect type

Figure 43: Figure 2.2.4.20 Interface - Refund Report User Management

Showroom Management

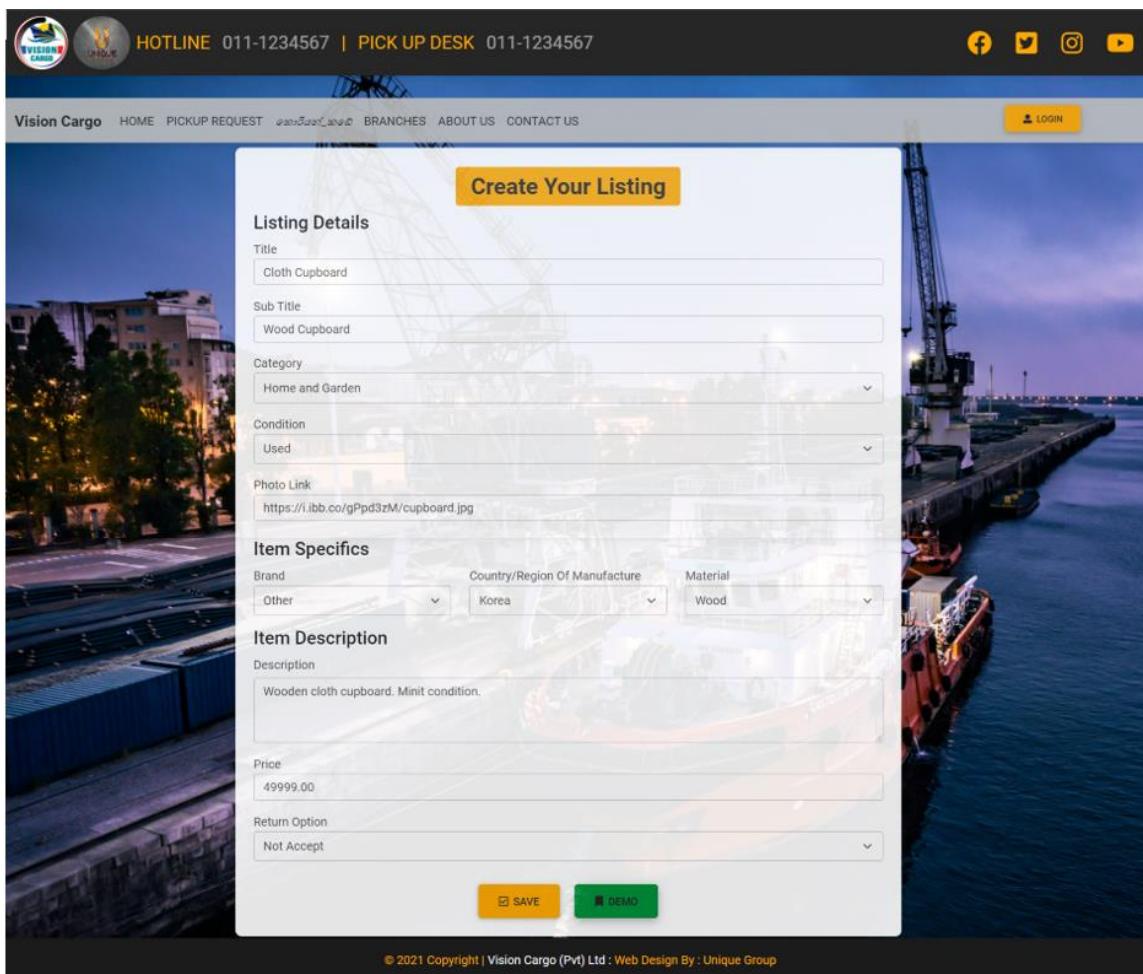


Figure 44: Figure 2.2.4.21 Interface - Showroom Management

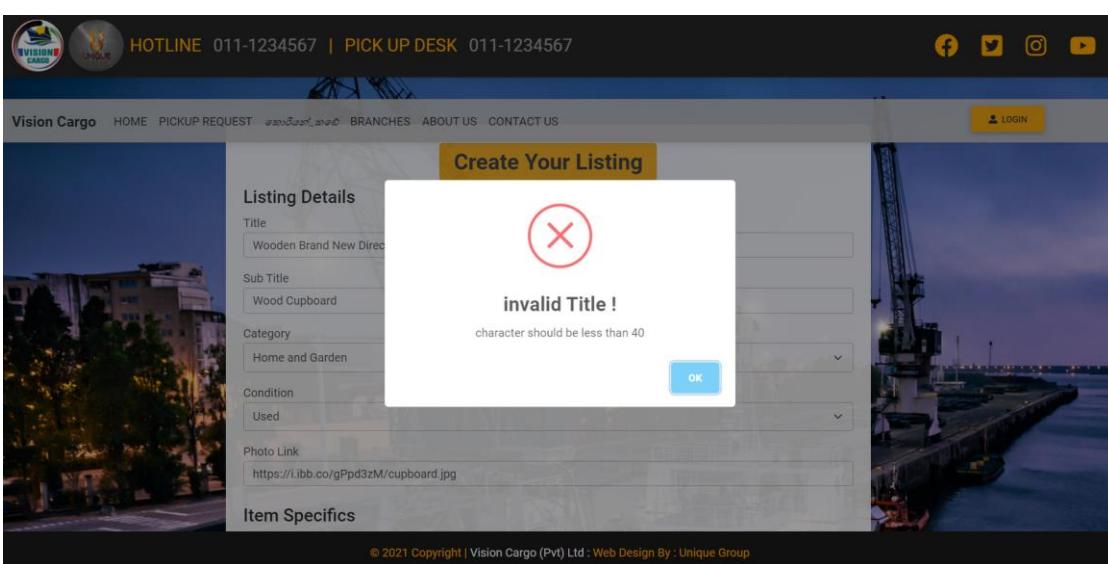


Figure 45: Figure 2.2.4.22 Interface - Showroom Management

Serial No	Title	Sub Title	Category	Condition	Photo	Brand	Country	Material
SRE231	ASUS COREi7	Zenbook14	Computer/Tablets	Used	C:\fakepath\Footer1.jpg	Other	Italy	Aluminum
SRE232	Exclusive Chair	Gamming Chair	Computer/Tablets	New	C:\fakepath\Footer1.jpg	Herman Miller	Italy	Fabric

Serial No	Title	Description	Price (LKR)	Return Option	Action
SRE231	ASUS COREi7	asus zenbook 14 i7	280,000.00	Accept	<button>EDIT</button> <button>DELETE</button>
SRE232	Exclusive Chair	Exclusive Height neck LUXURY	95000.00	Accept	<button>EDIT</button> <button>DELETE</button>

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Figure 46: Figure 2.2.4.23 Interface -Showroom Details of Showroom Management



Showroom Listing Report

Serial No	Title	Condition	Brand	Price (LKR)	Return Option
SRE231	Microwave Oven	Used	SAMSUNG	9000.00	Accept
SRE232	Executive Chair	New	Herman Miller	34000.00	Accept
SRE233	Double Bed	Used	Other	59000.00	Not Accept
SRE234	Shigeru Kawai Piano	Used	Other	80000.00	Accept
SRE235	Dining Table	New	Other	29000.00	Accept
SRE236	Tv stand	New	Other	10000.00	Accept
SRE237	Fabric sofa	New	Other	40000.00	Not Accept
SRE238	Show case	New	Other	24000.00	Not Accept
SRE239	Cloth Cupboard	Used	Other	49999.00	Not Accept
SRE2310	wooden Cloth Cupboard	Used	Other	49999.00	Not Accept

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Figure 47: Figure 2.2.4.24 Interface -Showroom Listing Report Showroom Management

Finance Management

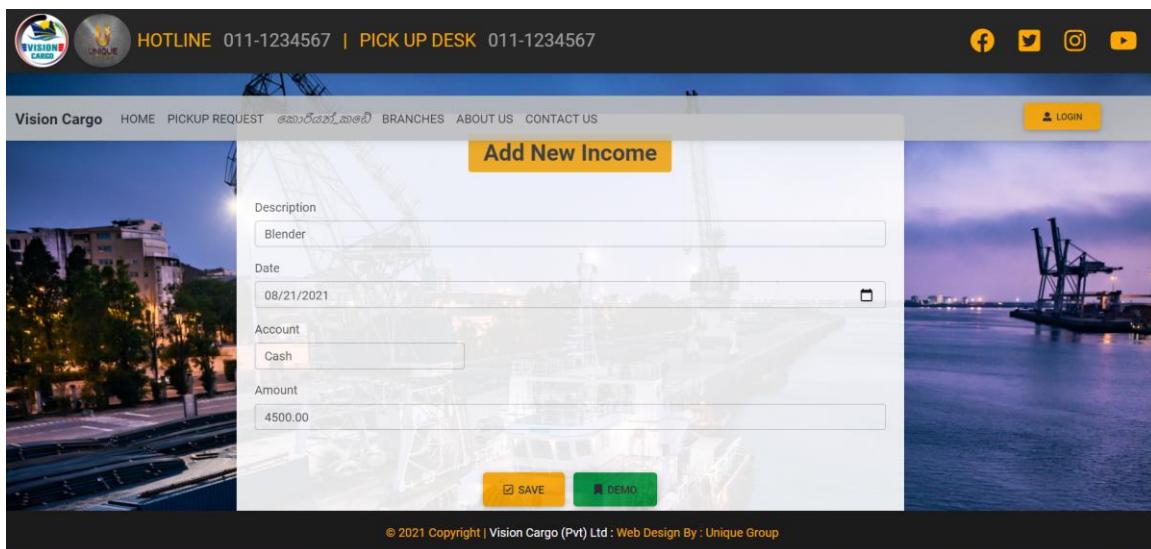


Figure 48: Figure 2.2.4.25 Interface - Finance Management

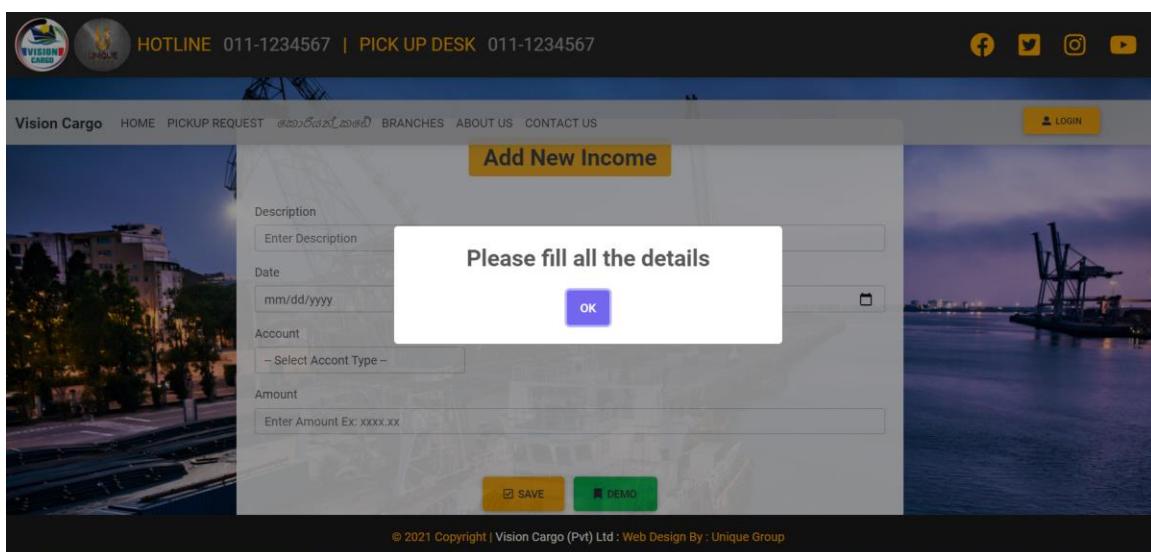


Figure 49: Figure 2.2.4.26 Interface- Finance Management

The screenshot shows the Vision Cargo website's finance management section. At the top, there are two circular logos: one for Vision Cargo and another for Unique Group. To the right of the logos, the text "HOTLINE 011-1234567 | PICK UP DESK 011-1234567" is displayed. A search bar with a yellow "SEARCH" button is located on the right side of the header. Below the header, a navigation bar includes links for "HOME", "PICKUP REQUEST", "සොයිඩඟා_හංක", "BRANCHES", "ABOUT US", "CONTACT US", and "Dropdown ▾". On the far right of the navigation bar is a "LOGIN" button. The main content area features a large banner image of a port at dusk with industrial cranes. Overlaid on this image is a yellow button labeled "All Incomes". Below the banner is a table with the following data:

#	Description	Date	Account	Amount	Action
I1	Refrigerator	2021-09-07	Bank	1000.00	<button> EDIT</button> <button> DELETE</button>
I2	Television	2021-09-08	Bank	25000.00	<button> EDIT</button> <button> DELETE</button>

At the bottom of the page, there is a footer banner with a port scene at night. Overlaid on this banner are two yellow buttons: "ADD NEW INCOME" and "DASH BOARD". The footer also contains the copyright notice: "© 2021 Copyright | Vision Cargo (Pvt) Ltd : Web Design By : Unique Group".

Figure 50: Figure 2.2.4.27 Interface-Income Details of Finance Management



Income Report

ID	Description	Date	Account	Amount
INC1	Refrigerator	2021-09-07	Bank	1000.00
INC2	Television	2021-09-08	Bank	25000.00
INC3	Blender	2021-09-08	Cash	3500.00
INC4	Double bed	2021-09-22	Cash	18000.00
Total Incomes : 47500				

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Figure 51: Figure 2.2.4.28 Interface- Income Report of Finance Management

Owner Management

The screenshot shows a web-based application for managing employees. At the top, there are two circular icons: one for 'VISION CARGO' and another for 'UNIQUE'. To the right of these are links for 'HOTLINE 011-1234567' and 'PICK UP DESK 011-1234567', along with social media links for Facebook, Twitter, Instagram, and YouTube. Below this is a navigation bar with links for 'Vision Cargo', 'HOME', 'PICKUP REQUEST', 'Branches', 'ABOUT US', 'CONTACT US', and 'LOGIN'. The main content area features a large, semi-transparent overlay window titled 'Add New Employee'. This window contains fields for Employee ID (E0005), First Name (Vihanga), Last Name (Perera), NIC (956535655V), Contact Number (0714868111), Email Address (vihanga@gmail.com), Address (Samagi Road, Panadura), Gender (Male), Department (Delivery), Position (Assistant Manager), and Employee Status (Full Time). At the bottom of the overlay are two buttons: a yellow 'SAVE' button and a green 'DEMO' button. The background of the page is a photograph of a port at dusk or night, showing shipping containers, a large cargo ship, and industrial structures.

Figure 52: Figure 2.2.4.29 Interface - Owner Management

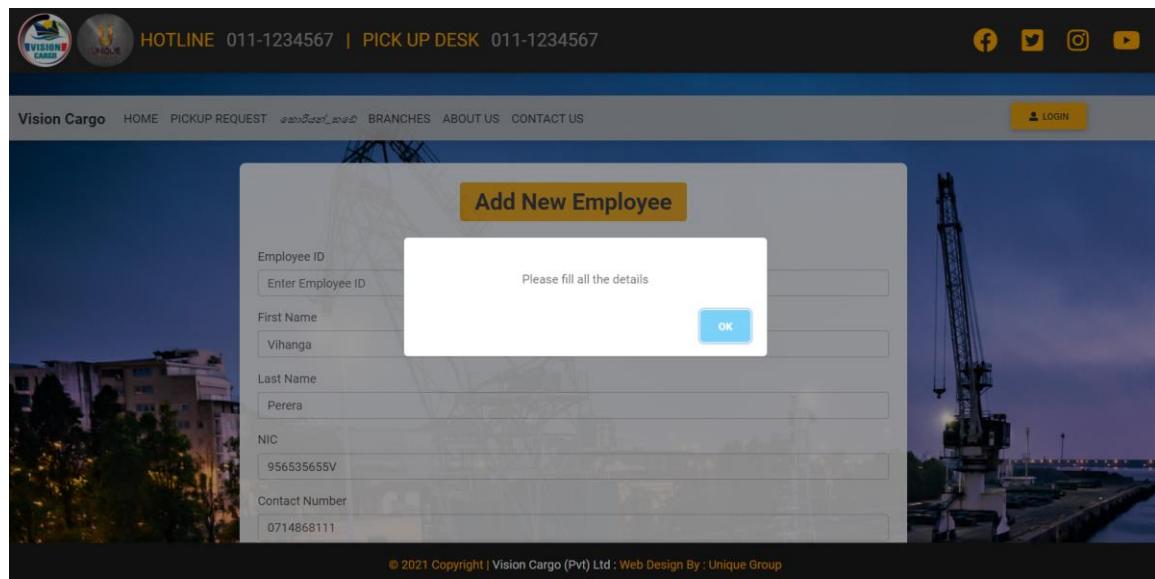


Figure 53: Figure 2.2.4.30 Interface - Owner Management

#	Employee ID	Name	Email	Contact Number	Department	Employee Status	Position	Action
1	E0001	Paboshi	pabo1999@gmail.com	0714572961	Owner Management	Full Time	Assistant Owner	EDIT DELETE
2	E0002	udeshi	ude99@gmail.com	0714592897	Finance Management	Full Time	Financial Manager	EDIT DELETE

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Figure 54: Figure 2.2.4.31 Interface -Employee Details of Owner Management



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Employee Report

#	Employee ID	Name	Email	Contact Number	Position
1	E0001	Paboshi	pabo1999@gmail.com	0714572981	Assistant Owner
2	E0008	Danushi	danu2000@gmail.com	0788160660	Manager

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Figure 55: Figure 2.2.4.32 Interface -Employee Report of Owner Management

2.3 Implementation

In the development of the computerized system for Vision Cargo Company, Visual Code IDE was used. The major reason that enforced us to use this as the development environment was because all the members in the development team were very used to it as we have handled few other projects earlier, using the same IDE.

Additional libraries were used in the development of the report generation part in each and every function.

Mongo DB software was used in making of the database connection to the system.

Software

- Visual Code
- Mongo DB

Technology

- Front End - React Js
- Back End - Node Js/ Express Js
- Bootstrap
- CSS

2.4 Testing

Customer Management

Table 1: Table 2.4.1 - Testing – Add new customer – Customer Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing function: New customer registration										
Test case ID: 1	Test case designed by, ID No: IT20135034 Name: Samarawickrama T.J.P									
Test Priority (High/Medium/Low)	High									
Test description: When the customer visit the site and need to deliver cargoes, the customer should register to the system.										
Test step:										
<ol style="list-style-type: none"> 1. Login to the website. 2. Select “Registration” card on the dashboard. 3. Click on “Add new customer” button. 4. Enter details to the form. 5. Click on save button. 										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result	Comments					
1	Add customer details as, First Name, Last Name, Email, NIC, Phone, Address, City, Province and zip.	All the customer details should be added to the database. “Successfully saved” message will be displayed up on the screen.	Expected Outputs.	Pass	Insert customer function worked appropriately. Data successfully embedded to the database.					

Table 2: Table 2.4.2 - Testing – Update customer details – Customer Management

Project ID: ITP2021_S2_B01_G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing function: Update customer details									
Test case ID: 2		Test case designed by, ID No: IT20135034 Name: Samarawickrama T.J.P							
Test Priority (High/Medium/Low)		High							
Test description: If the customer wants to update his or her details that have been entered to the system, they can update details.									
Test step: <ol style="list-style-type: none"> 1. Login to the website. 2. Click on “Edit” button on the customer details table. 3. If customer wants to change and update the fields. 4. Click on save button. 									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result	Comments				
2	Update the fields that the customer needs to change.	All the edited customer details should be updated in the database. “Successfully updated” message will be displayed up on the screen.	Expected Outputs.	Pass	Update customer details function worked appropriately. The current records in the database updated successfully.				

Store Management

Table 3: Table 2.4.3 - Testing - Add Cargo - Store Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Add new Cargo										
Test case ID: 3	Test case designed by, ID No: IT20135898 Name: Arachchi A. G. S. C									
Test Priority (High/Medium/Low)	High									
Test Description: Add new cargo details to the system										
Test Steps: Step 1: Login as Store manager Step 2: Select Cargo information page Step 3: Click on Add new Cargo details button Step 4: Fill out the empty fields Step 5: Click on Save button										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
3	Serial Number, receiver Name, receiver Contact, receiver Email, receiver Address, receiver Province, receiver District, receiver City, sender Name, sender Contact, sender Email, sender Address, sender Province, sender District, sender City, No, Type, Weight, Shipping Cost	A new Cargo should be placed	A new Cargo has been placed and saved in the database. Visit Cargo information home page to see the newly added Cargo	Pass	Adding new Cargo function worked properly					

Table 4: Table 2.4.4 - Testing – Update Cargo - Store Management

Project ID: ITP2021_S2_B01_G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing Function: Update a Cargo									
Test case ID: 4		Test case designed by, ID No: IT20135898 Name: Arachchi A. G. S. C							
Test Priority (High/Medium/Low)		High							
Test Description: Update an existing Cargo									
Test Steps: Step 1: Login as Store manager Step 2: Select Cargo details page Step 3: Select the Cargo that should be updated Step 4: Do the necessary changes Step 5: Click on Update button									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
4	Change the Serial Number, receiver Name, receiver Contact, receiver Email, receiver Address, receiver Province, receiver District, receiver City, sender Name, sender Contact, sender Email, sender Address, sender Province, sender District, sender City, No, Type, Weight, Shipping Cost .	The existing record should be updated	The record has been updated as well as the database	Pass	Updating an existing cargo worked properly				

Table 5: Table 2.4.5 - Testing - Add Payment - Store Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Add new Payment										
Test case ID: 5	Test case designed by, ID No: IT20135898 Name: Arachchi A. G. S. C									
Test Priority (High/Medium/Low)	High									
Test Description: Add new payment details to the system										
Test Steps: Step 1: Login as Store manager Step 2: Select Payment details page Step 3: Click on Add new Payment details button Step 4: Fill out the empty fields Step 5: Click on Save button										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
5	Serial Number, Name, Contact, Email, No, Type, Weight, Shipping Cost, Delivery Charges, Total Shipping Cost, Total	A new Payment should be placed	A new Payment has been placed and saved in the database. Visit Payment details home page to see the newly added Payment	Pass	Adding new Payment function worked properly					

Table 6: Table 2.4.6 -Testing - Update Payment - Store Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Update a Payment										
Test case ID: 6	Test case designed by, ID No: IT20135898 Name: Arachchi A. G. S. C									
Test Priority (High/Medium/Low)	High									
Test Description: Update an existing Payment										
Test Steps: Step 1: Login as Store manager Step 2: Select Payment details page Step 3: Select the Payment that should be updated Step 4: Do the necessary changes Step 5: Click on Update button										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
6	Change the Serial Number, Name, Contact, Email, No, Type, Weight, Shipping Cost, Delivery Charges, Total Shipping Cost, Total	The existing record should be updated	The record has been updated as well as the database	Pass	Updating an existing payment worked properly					

Distribution Management

Table 7: Table 2.4.7 - Testing – Add cargo arrival details – Distribution Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing function: Add new Cargo details arrived at Sri Lankan warehouse										
Test case ID: 7	Test case designed by, ID No: IT20252236 Name: Ekanayake J.S.M.R.N.W.I.U									
Test Priority (High/Medium/Low)	High									
Test description: Once the cargoes reached Sri Lankan Warehouse enter details to the system.										
Test step:										
<ol style="list-style-type: none"> 1. Login to the website. 2. Select “Cargo warehousing form” card on the dashboard. 3. Fill the all details in the form. 4. Submit details by clicking the save button 										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
7	Add details to the form as Sender's name, Phone number, Receiver's name, Phone number and for the cargo arrival at the warehouse have to enter Serial number of the cargo, Warehouse type, Total number of items, Gross weight, Date, Time and Description.	All the details of sender's, receiver's, and cargo arrived at the warehouse, should be added to the database. “Successfully saved” message will be displayed up on the screen.	Expected Outputs.	Pass	Insert details of sender's, receiver's, and cargo arrived at the warehouse function worked appropriately. Data successfully embedded to the database					

Table 8: Table 2.4.8 - Testing – Update cargo arrival details – Distribution Management

Project ID: ITP2021_S2_B01_G13 Project Name: CARGO DELIVERY SYSTEM Testing function: Update cargo details from the cargo warehousing details table									
Test case ID: 8		Test case designed by, ID No: IT20252236 Name: Ekanayake J.S.M.R.N.W.I.U							
Test Priority (High/Medium/Low)		High							
Test description: Update cargo arrival details									
Test step: <ol style="list-style-type: none"> 1. Login to the website. 2. Click on “Edit” button on the cargo warehousing details table 3. Change and update the fields in the cargo warehousing form. 4. Submit details by clicking the save changes button. 									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
8	Update the fields that the operator needs to change.	All the edited details of sender's, receiver's and cargo arrived at the warehouse, should be updated in the database. “Successfully updated” message will be displayed up on the screen.	Expected Outputs.	Pass	Update details of sender's, receiver's, and cargo arrived at the warehouse function was executed successfully. The current records in the database updated successfully.				

Table 9: Table 2.4.9 - Testing – Add new delivery details – Delivery Management

Project ID: ITP2021_S2_B01_G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing Function: Add new Delivery									
Test case ID: 9		Test case designed by, ID No: IT21033986 Name: R. R. M. Fernando							
Test Priority (High/Medium/Low)		High							
Test Description: Add new delivery details to the system									
Test Steps: Step 1: Login as Delivery manager Step 2: Select Delivery details page Step 3: Click on Add new Delivery details button Step 4: Fill out the empty fields Step 5: Click on Save button									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
9	Driver ID, Driver name, Driver contact, Delivery status, Sender name, Receiver name, Receiver address, Receiver contact	A new delivery should be placed	A new delivery has been placed and saved in the database. Visit delivery details home page to see the newly added delivery	Pass	Adding new delivery function worked properly				

Table 10: Table 2.4.10 - Testing – Update delivery details – Delivery Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Update a Delivery										
Test case ID: 10	Test case designed by, ID No: IT21033986 Name: R. R. M. Fernando									
Test Priority (High/Medium/Low)	High									
Test Description: Update an existing delivery										
Test Steps: Step 1: Login as Delivery manager Step 2: Select Delivery details page Step 3: Select the delivery that should be updated Step 4: Do the necessary changes Step 5: Click on Update button										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
10	Change the Driver ID, Driver name, Driver contact, Delivery status, Sender name, Receiver name, Receiver address, Receiver contact.	The existing record should be updated	The record has been updated as well as the database	Pass	Updating an existing delivery worked properly					

Table 11: Table 2.4.11 - Testing – Add new driver details – Delivery Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Add new Driver										
Test case ID: 11	Test case designed by, ID No: IT21033986 Name: R. R. M. Fernando									
Test Priority (High/Medium/Low)	High									
Test Description: Add new driver details to the system										
Test Steps: Step 1: Login as Delivery manager Step 2: Select Driver details page Step 3: Click on Add new Driver details button Step 4: Fill out the empty fields Step 5: Click on Save button										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
11	Driver ID, Driver name, Driver contact, Driver address, Age	A new driver should be placed	A new driver has been placed and saved in the database. Visit driver details home page to see the newly added driver	Pass	Adding new driver function worked properly					

Table 12: Table 2.4.12 - Testing – Update driver details – Delivery Management

Project ID: ITP2021_S2_B01_G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing Function: Update a Driver									
Test case ID: 12		Test case designed by, ID No: IT21033986 Name: R. R. M. Fernando							
Test Priority (High/Medium/Low)		High							
Test Description: Update an existing Driver									
Test Steps: Step 1: Login as Delivery manager Step 2: Select Driver details page Step 3: Select the Driver that should be updated Step 4: Do the necessary changes Step 5: Click on Update button									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
12	Change the Driver ID, Driver name, Driver contact, Driver address, Age	The existing record should be updated	The record has been updated as well as the database	Pass	Updating an existing driver worked properly				

User Management

Table 13: Table 2.4.13 - Testing – Create new feedbacks – User Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Create new feedback										
Test Case ID: 13	Test Case designed by, ID: IT20135270 Name: Kollure K.A.D. D									
Test Priority (High/Medium/Low):	High									
Test Description: Give feedback after received relevant cargos.										
Test Steps: <ol style="list-style-type: none"> 1. Login as a customer. 2. View feedback page. 3. Click on create new feedback button. 4. Fill out the empty fields in form. 5. Submit the form by click on send button. 										
Test ID	Test Inputs	Expected Outputs	Actual Outputs	Results (Pass/Fail)	Comments					
13	Feedback category, Email, Star ratings, Feedback	New feedback should be added.	New feedback is added to the database. Visit feedback home page to see the added feedback.	Pass	Adding new feedback function worked properly.					

Table 14: Table 2.4.14 - Testing – Update feedbacks – User Management

Project ID: ITP2021_S2_B01_G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing Function: Update Feedback									
Test Case ID: 14		Test Case designed by, ID: IT20135270 Name: Kollure K.A.D. D							
Test Priority (High/Medium/Low):		High							
Test Description: Update the feedback given by customer.									
Test Steps: <ol style="list-style-type: none"> 1. Login as a customer. 2. View feedback page. 3. Select the feedback that need to update. 4. Click on Edit button. 5. Edit relevant fields in form. 6. Update the details by click on Update button. 									
Test ID	Test Inputs	Expected Outputs	Actual Outputs	Results (Pass/Fail)	Comments				
14	Feedback category, Email, Star ratings, Feedback	Edited details of the feedback should be changed.	The record of the selected feedback is changed in the database. Update successful message is displayed. Visit feedback home page to see the changes.	Pass	Updating feedback function worked properly.				

Table 15:Table 2.4.15 - Testing – Create refund – User Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Create new Refund										
Test Case ID: 15	Test Case designed by, ID: IT20135270 Name: Kollure K.A.D. D									
Test Priority (High/Medium/Low):	High									
Test Description: Make a refund to return cargos.										
Test Steps:										
<ol style="list-style-type: none"> 1. Login as a customer. 2. View refund page. 3. Click on create new Refund button. 4. Fill out the empty fields in form. 5. Submit the form by click on send button. 										
Test ID	Test Inputs	Expected Outputs	Actual Outputs	Results (Pass/Fail)	Comments					
15	Customer ID, Phone Number, Cargo received date, Refund goods, Reason for refund	New Refund should be added.	New refund is added to the database. Visit refund home page to see the added refund.	Pass	Adding new refund function worked properly.					

Table 16: Table 2.4.16 - Testing – Update refund – User Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Update Refund										
Test Case ID: 16	Test Case designed by, ID: IT20135270 Name: Kollure K.A.D. D									
Test Priority (High/Medium/Low):	High									
Test Description: Update refunds.										
Test Steps: <ol style="list-style-type: none"> 1. Login as a customer. 2. View refund page. 3. Select the relevant refund that need to update. 4. Click on Edit button. 5. Edit relevant fields in form. 6. Update the details by click on Update button. 										
Test ID	Test Inputs	Expected Outputs	Actual Outputs	Results (Pass/Fail)	Comments					
16	Customer ID, Phone Number, Cargo received date, Refund goods, Reason for refund	Edited details of the refund should be changed.	The record of the selected refund is changed in the database. Update successful message is displayed. Visit refund home page to see the changes.	Pass	Updating refund function worked properly.					

Showroom Management

Table 17: Table 2.4.17 - Testing – Add new listing – Showroom Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Add new listing details.										
Test Case ID: 17	Test Case designed by, ID: IT20138486 Name: Rathnayake R.M.T.D									
Test Priority (High/Medium/Low):	High									
Test Description: Manage shop inventory stocks.										
Test Steps: <ol style="list-style-type: none"> 1. Login as a showroom manager. 2. View showroom management page. 3. Click on Add new listing button. 4. Fill out the empty fields in form. 5. Submit the form by click on Save button. 										
Test ID	Test Inputs	Expected Outputs	Actual Outputs	Results (Pass/Fail)	Comments					
17	Serial Number, Title, Sub title, Category, Condition, Photo, Brand, Country, Material, Description, Price, Return Option	New List should be added.	New list is added to the database. Visit showroom details home page to see the added list.	Pass	Adding new listing function worked properly.					

Table 18: Table 2.4.18 - Testing – Update listing – Showroom Management

Project ID: ITP2021_S2_B01_G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Update listing details.										
Test Case ID: 18	Test Case designed by, ID: IT20138486 Name: Rathnayake R.M.T.D									
Test Priority (High/Medium/Low):	High									
Test Description: Update shop inventory details.										
Test Steps: <ol style="list-style-type: none"> 1. Login as a showroom manager. 2. View showroom management page. 3. Select the relevant list that need to update. 4. Click on Edit button. 5. Edit relevant fields in form. 6. Update the details by click on Update button. 										
Test ID	Test Inputs	Expected Outputs	Actual Outputs	Results (Pass/Fail)	Comments					
18	Serial Number, Title, Sub title, Category, Condition, Photo, Brand, Country, Material, Description, Price, Return Option	Edited details of the listing should be changed.	The record of the selected list is changed in the database. Update successful message is displayed. Visit showroom home page to see the changes.	Pass	Updating listing details function worked properly.					

Finance Management

Table 19: Table 2.4.19 Testing – Add new Income – Finance Management

Project ID: ITP2021 S2 B01 G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing Function: Add new income									
Test case ID: 19		Test case designed by, Reg. No: IT20202736 Name: Withanage W.D.U.I							
Test Priority (High/Medium/Low):		High							
Test Description: Add a new income to the system when an insert the details.									
Test Steps: <ol style="list-style-type: none"> 1. Go to the Financial manager. 2. Enter the income cost. 3. Fill out the empty fields. 4. Click on add button. 5. Go to the list of income. 6. Click on update button. 7. Go to the edit page. 8. Enter the new income. 									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
19	Enter all the income bill cost. Income ID, Description, Date, Account and Amount is generated by the system.	A new Income should be added.	A new income is added, and all the income details are stored in the database. Existing income details and the newly added can be seen in the list page.	Pass	Addition of a new income was executed successfully.				

Table 20: Table 2.4.20 Testing – Update Income – Finance Management

Project ID: ITP2021 S2 B01 G13										
Project Name: CARGO DELIVERY SYSTEM										
Testing Function: Update the income										
Test case ID: 20	Test case designed by, Reg. No: IT20202736 Name: Withanage W.D.U.I									
Test Priority (High/Medium/Low):	High									
Test Description: Update existing details of an income.										
Test Steps:										
1. Go to the Financial manager. 2. Direct to view list page. 3. Select the specific income record to be deleted and click the Edit button. 4. Update the desired fields of the income details of the form.										
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments					
20	Update the income details. Not edit Income	Relevant income details are updated.	Income details are updated and are stored in the database. Existing income details and the can be seen in the view List page.	Pass	Updating income details function was executed successfully.					

Table 21: Table 2.4.21 Testing – Add new Expense – Finance Management

<p>Project ID: ITP2021 S2 B01 G13</p> <p>Project Name: CARGO DELIVERY SYSTEM</p> <p>Testing Function: Add new expense.</p>									
Test case ID: 21		Test case designed by, Reg. No: IT20202736 Name: Withanage W.D.U.I							
Test Priority (High/Medium/Low):		High							
<p>Test Description: Add a new income to the system when an insert the details.</p>									
<p>Test Steps:</p> <ol style="list-style-type: none"> 1. Go to the Financial manager. 2. Enter the expense cost. 3. Fill out the empty fields. 4. Click on add button. 5. Go to the list of expense. 6. Click on update button. 7. Go to the edit page. 8. Enter the new expense. 									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
21	Enter all the expenses bill cost. Expense ID, Description, Date, Account and Amount is generated by the system.	A new Expense should be added.	A new expense is added, and all the expense details are stored in the database. Existing expense details and the newly added can be seen in the list page.	Pass	Addition of a new expense was executed successfully.				

Table 22: Table 2.4.22 Testing – Update Expense – Finance Management

<p>Project ID: ITP2021_S2_B01_G13</p> <p>Project Name: CARGO DELIVERY SYSTEM</p> <p>Testing Function: Update the expense</p>					
Test case ID: 22		Test case designed by, Reg. No: IT20202736 Name: Withanage W.D.U.I			
Test Priority (High/Medium/Low):		High			
<p>Test Description: Update existing details of an expense.</p> <p>Test Steps:</p> <ol style="list-style-type: none"> 1. Go to the Financial manager. 2. Direct to view list page. 3. Select the specific expense record to be deleted and click the Edit button. 4. Update the desired fields of the expense details of the form. 					
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments
22	Update the expense details. Not edit Expense.	Relevant expense details are updated.	Expense details are updated and are stored in the database. Existing expense details and the can be seen in the view List page.	Pass	Updating expense details function was executed successfully.

Owner Management

Table 23: Table 2.4.23 Testing – Add new Employee – Owner Management

Project ID: ITP2021 S2 B01 G13									
Project Name: CARGO DELIVERY SYSTEM									
Testing Function: Add new Employee									
Test case ID: 23		Test case designed by, Reg. No: IT20905040 Name: De Silva W.P.S							
Test Priority (High/Medium/Low):		High							
Test Description: Add a new employee to the company									
Test Steps: Step 1: Login as Employee Admin Step 2: Fill the Employee details form Step 3: Fill out the empty fields and complete the relevant validations Step 4: Click on Add Employee button									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
23	Assign employee ID employee name, NIC number, contact number, email, position, department, Status is generated by the system	A new employee should be added.	A new employee is added, and all the employee details are stored in the database. Existing employee details and the newly added can be seen in the view employee page	Pass	Addition of a new employee was executed successfully				

Table 24: Table 2.4.24 Testing – Update Employee Details – Owner Management

Project ID: ITP2021 S2 B01 G13 Project Name: CARGO DELIVERY SYSTEM Testing Function: Update Employee Details									
Test case ID: 24		Test case designed by, Reg. No: IT20905040 Name: De Silva W.P.S							
Test Priority (High/Medium/Low):		High							
Test Description: Update existing employee of an employee									
Test Steps: Step 1: Login as Employee Admin Step 2: Direct to View Employee Page Step 3: Select the specific employee record to be deleted and click the Edit button Step 4: Update the desired fields of the employee details of the form									
Test ID	Test Inputs	Expected Outputs	Actual Output	Result (Pass/Fail)	Comments				
24	Update employee contact number, designation, department, and basic salary of the selected employee	Relevant employee details are updated	Employee details are updated and are stored in the database. Existing employee details and the newly updated employee details can be seen in the view employee page	Pass	Updating employee details function was executed successfully.				

3. Conclusion

The whole point of the project was covering the Vision Cargo's System. They had no automated system, so our objective was to come up with a digital system that would cover up almost all the functions. We have covered eight functions in this system. Store Management System, Customer Management System, Distribution Management System, Delivery Management System, User Management, Finance Management System, Owner Management system and Shop Management System were implemented using the project.

Basically, in the Store Management System, People who wants to send their goods to Sri Lanka hand over their goods to company and they provide storage facility in Korea and the Customer Management System handles all the registration formalities. In Distribution Management System, Once the goods are arrived in Sri Lanka the clearance procedure from the harbor and the goods are transported to the warehouse. The Delivery Management system is managing all the tasks relative to deliver the goods from the Sri Lankan warehouse to the relevant recipient. User Management handles all the feedbacks given by the customers. Moreover, in the Finance Management function, regarding all the financial transaction. Owner Management, main task is to see the smooth running of all the functions in the company regarding to imports and delivering. And in Shop Management any customer who needs to purchase any imported item from Korea the opportunity is provided. Besides, every single subsystem implemented with retrieval, addition, update and delete of date along with a report generation function.

Eight members handled the mentioned eight functions during the period of four months and managed to pull through and a moral system was created with all functioning properties. There were many resources used in this process and inconsiderably of hard work involved. Finally, we come up with the system that all client requirements are fulfilled. Furthermore, the company gets the benefit, as they can conduct the services and other functions in automated ways rather than working manually. It was our pleasure to come up with this project parallel learning weaknesses and errors.

4. References

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