

WEB BASED SYSTEM FOR T.A ENTERPRISES

GEARGRID-WHERE TOOLS TRANSFORM DREAMS

By

H.T.V. Fernando

IM/2020/090

A report submitted in partial fulfillment of the requirements for the degree of Bachelor of
Science Honors in Management and Information Technology (B.Sc. MIT)

Name of the supervisor : Ms.Yehemini Jayatissa

Department of Industrial
Management Faculty of Science
University of
Kelaniya Sri
Lanka
2022

Table of Contents

<i>Declaration</i>	3
<i>ACKNOWLEDGEMENT</i>	4
<i>CHAPTER 1 – INTRODUCTION</i>	5
1.1 Description of the business organization and the business area chosen	6
1.2 Problem Definition	6
1.3 Aims and Objectives	7
1.4 Organization of the Report	8
<i>Chapter 2 - System Analysis</i>	9
1.5 Use Case diagram for the existing system	9
1.6 Activity Diagrams to describe the functionality of the Use-Cases	10
1.6.1 This figure illustrate the activity diagram to describe the functionality of how the internal process works. 10	
1.6.2 This figure illustrate the activity diagram to describe the functionality of how the process going on within owner and the supplier.....	11
1.7 Requirement Catalogue	12
1.7.1 Functional Requirements.....	12
1.7.2 Non-functional Requirements	14
<i>Chapter 3 – SYSTEM DESIGN</i>	15
1.8 Use case diagrams for the proposed system	15
1.8.1 Overall Use Case Diagram for the Proposed System.....	16
1.8.2 High level view of the Use case diagram : functionalities of the proposed system.....	17
1.9 User Stories and Use Case diagram for Existing System	24
1.10 This is a simple graphical representation to distinguish the permissions (functionalities) of the main system actors clearly.	35
1.11 Activity diagram for the proposed system	36
1.11.1 Activity diagram for describing functionalities: Login	36

1.11.2	Activity diagram for describing functionalities: Register customers	37
1.11.3	Activity diagram for describing functionalities: Manage equipment.	38
1.11.4	Activity diagram for describing functionalities: Manage users	39
1.11.5	Activity diagram for describing functionalities : Rent equipment	40
1.12	Entity relationship diagrams	41
1.13	Class diagram for proposed system.....	42
1.13.1	Entity-Class diagram	42
1.13.2	Interface-Class diagram	43
1.13.3	Controller-Class diagram	44
1.14	Sequence diagram	45
1.14.1	Sequence diagram for login	45
1.14.2	Customer register in the website to reserve equipment	46
1.14.3	Manage users and customers.....	47
1.14.4	Manage equipment (items)	48
1.14.5	Manage Invoices.....	49
<i>Interfaces.....</i>		50

Declaration

I hereby certify that this project and all the artifacts associated with it is my own work and it has not been submitted before nor is currently being submitted for any other degree program.

Full name of the student: Hettiyakandage Theekshana Vimukthi Fernando

Student No: IM/2020/090

Signature of the student:

Date: 2024/01/01

Name of the supervisor: Ms. Yehemini Jayatissa

Signature of the supervisor:

Date:

ACKNOWLEDGEMENT

First and foremost, I would like to extend my heartfelt gratitude to my project supervisor, Ms.Yehemini Jayatissa for her immense support and guidance given to me from the beginning of the project.

I thank all the staff members, especially the panel of judges who gave valuable inputs and feedback on the video presentation of the system I was proposing to do. Those comments helped greatly to identify points to be improved and to have a clear idea of the system scope.

I would also like to convey my thanks to Mr.Cinthaka Fernando, the owner of T.A Enterprises for providing me the required information and for all the support.

My sincere thanks go to my parents and my family. They were a great strength when collecting information for this project and gave me a lot of new ideas to think about.

Finally, I would like to thank all my friends for their true friendship and for providing honest support, feedback and encouragement during the preparation of this report.

CHAPTER 1 – INTRODUCTION

In this chapter, the focus is on introducing the project that involves the creation of a web-based application for T.A Enterprises. The chapter will examine the business's characteristics, current processes, and problems. Additionally, the chapter will assess the goals and objectives of the proposed system, its scope and limitations, and how the components are organized.

Outline of the Chapter

1.1 Description of the business organization and the business area chosen

1.2 Problem Definition

1.3 Aims and Objectives

1.4 Organization of the report

1.1 Description of the business organization and the business area chosen

The chosen business organization, a machinery rental enterprise, operates under the name T.A Enterprises functioning within the expansive domain of machinery rental services. The business is meticulously organized, with distinct roles assigned to key personnel. The administrative responsibilities fall under the purview of the Admin, who oversees overall operations and manages administrative tasks. But in the current advanced business culture still machinery equipment renting didn't get a huge revolution in their business process because a lot of rental shops follow traditional techniques. Everyone who need these machines got disappointed because of these poor business strategies.

1.2 Problem Definition

Manual Information Storage: All business data, including transactions, customer details, and inventory management, is currently stored manually through traditional bookkeeping methods.

Difficulty in Information Retrieval: Retrieving specific information promptly is a significant challenge due to the manual paperwork involved, leading to delays in accessing critical data.

Customer ID Management Issues: The storage and management of customer identification cards present potential legal concerns. The current system may lack organization and security measures, raising compliance issues with legal and privacy standards.

Communication Challenges within Warehouses: The absence of an effective communication system hampers coordination between the main shop and its various warehouses. This limitation affects tasks such as equipment handovers and efficient inventory management.

These problems collectively indicate the need for a comprehensive system upgrade to automate processes, improve information retrieval efficiency, ensure legal compliance in customer data management, and establish seamless communication channels within the business.

1.3 Aims and Objectives

- Automate Information Management:

Aim: To transition from manual bookkeeping to an automated system for comprehensive information management.

Objectives:

Implement a digital database to store and manage transactions, customer details, and inventory.

Integrate automated data entry processes to reduce manual efforts and enhance accuracy.

- Streamline Information Retrieval:

Aim: To facilitate quick and efficient retrieval of information.

Objectives:

Implement a user-friendly interface for easy access to transaction records, customer details, and inventory information.

Introduce advanced search and filter functionalities to enhance information retrieval speed.

- Enhance Customer ID Management:

Aim: To address legal and compliance concerns related to customer identification.

Objectives:

Establish a secure and organized system for storing and managing customer identification cards.

Implement encryption and access controls to ensure compliance with legal and privacy standards.

- Improve Communication Within Warehouses:

Aim: To establish seamless communication channels between the main shop and warehouses.

Objectives:

Integrate a communication module to facilitate real-time information exchange between the shop and warehouses.

Implement notifications and alerts for effective coordination during equipment handovers and inventory management.

1.4 Organization of the Report

Chapter 1 – Introduction

In the first chapter, the focus is on introducing the business's characteristics, current processes, challenges, scope and limitations as well as the goals and objectives of the proposed system.

Chapter 2 - System Analysis

The primary objective of this chapter is to discuss the system's requirement analysis. It provides an overview of the existing system with the help of user descriptions, use cases, functional and non-functional requirements and activity diagrams

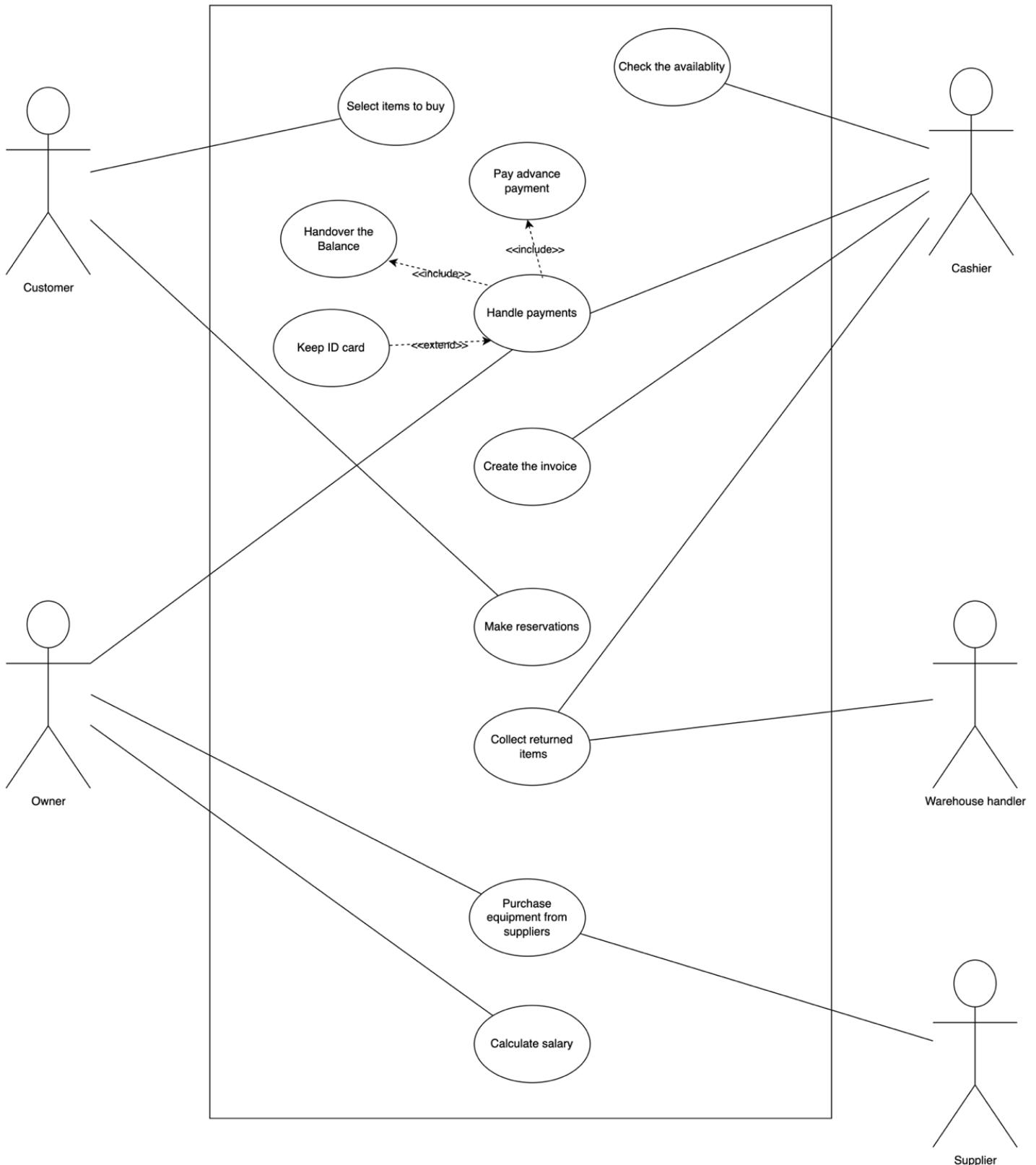
Chapter 3 – System Design

After clarifying the requirements and specifications of the system, the project will move on to the System Design stage. The purpose of this chapter is to provide a good understanding of the proposed system's behavior and relationships through diagrams. These diagrams will build upon one another to explain the system's functionality, entities, and relationships.

Towards the end of the chapter.

Chapter 2 - System Analysis

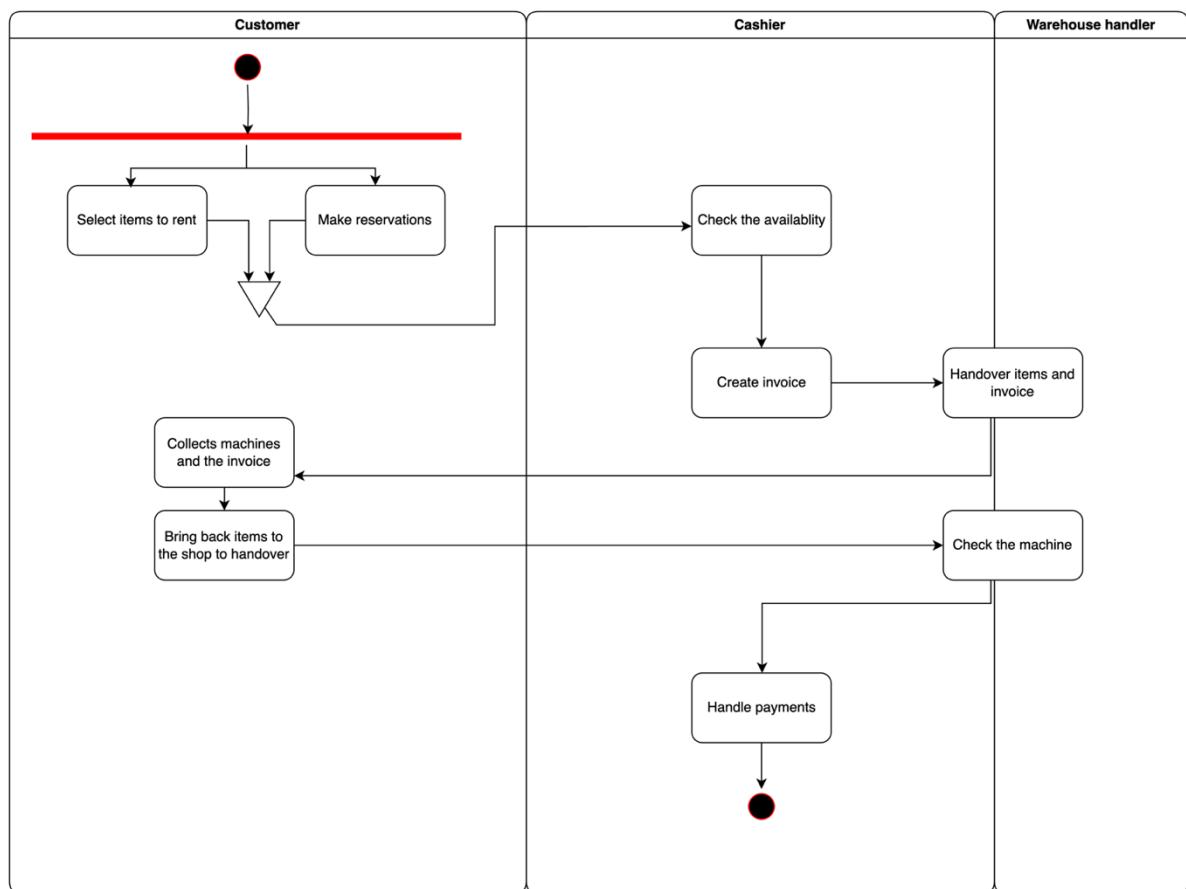
1.5 Use Case diagram for the existing system.



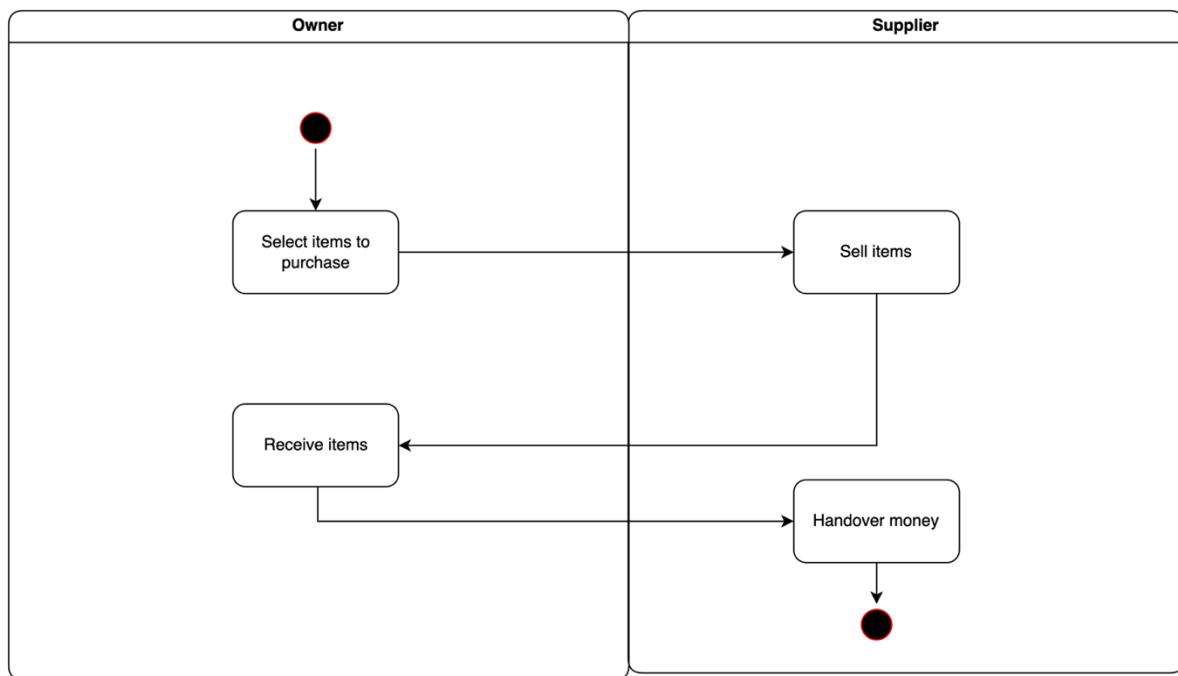
1.6 Activity Diagrams to describe the functionality of the Use-Cases

The activity diagrams are used to elaborate on the functionality of the previously described use cases. These diagrams showcase how the actors within the current business process interact with one another to accomplish business functions, and identify the decision-making points relevant to their specific roles.

1.6.1 This figure illustrate the activity diagram to describe the functionality of how the internal process works.



1.6.2 This figure illustrate the activity diagram to describe the functionality of how the process going on within owner and the supplier.



1.7 Requirement Catalogue

1.7.1 Functional Requirements

The system requirements analysis process aims to offer a thorough explanation of the problem based on the principles outlined in the particular problem. The following section will give a brief overview of the functional and non-functional requirements identified during the system analysis phase.

Shall be able to maintain user roles (cashier, warehousehandler).

- .1 Shall be able to create users.
- .2 Shall be able to log into accounts.
- .3 Shall be able to update user accounts.
- .4 Shall be able to delete user accounts.

Shall be able to maintain customer details.

- .1 Shall be able to create accounts.
- .2 Shall be able to log into accounts.
- .3 Shall be able to update accounts.
- .4 Shall be able to delete accounts.
- .5 Shall be able to take customers photograph and a fingerprint or a digital signature
- .6 Shall be able to add National ID card details to the account
- .7 Should be able to track customers history

Shall be able to maintain equipment details(Inventory).

- .1 Shall be able to create accounts.
- .2 Shall be able to log into accounts.
- .3 Shall be able to update accounts.
- .4 Shall be able to delete accounts.
- .5 Should be able to view full categorized inventory

Shall be able to maintain invoices

- .1 Shall be able to create invoices.

- .2 Shall be able to search invoices
- .3 Shall be able to update invoices.
- .4 Shall be able to delete invoices.
- .5 Shall be able to mark defected status when handover and receive
- .6 Shall be able to keep track of deposit amount and display balance when he payback
- .7 Shall be able to insert payment as installments and with the relevant date

Shall be able to login to the system to the admin as a separate cashier

Shall be able to generate reports

- .1 Shall be able to generate salary
- .2 Shall be able to generate collection summery
- .3 Should be able to track current,defected and outgoing inventory.

Shall be able to communicate with the other warehouse in realtime

Should be able to send an automated message to the customer

Should be able to notify the cashier when the customer failed to pay or return equipment when exceeding

1 week

1.7.2 Non-functional Requirements

Shall be able to provide a graphical user friendly interface.

Shall be able to display the invoice in English and Sinhala.

Shall be able to run on any browser.

Shall be able to generate the invoice within 20 seconds after submit to the printer (with the printer delay)

Should be able to generate most profitable equipment and sales of the month

Chapter 3 – SYSTEM DESIGN

This chapter centers on system design, leveraging the specifications detailed in Chapter 2's System Requirement Specification. The design will be articulated through a range of diagrams, encompassing Use Case Diagrams, Activity Diagrams, Entity-Relationship Diagrams, Entity Class Diagrams, Controller Class Diagrams, Interface Class Diagrams, and Sequence Diagrams. The culmination of the chapter will involve presenting a Normalized Database Design, complete with database specifications, alongside Wireframes illustrating the anticipated Graphical User Interfaces.

Outline of the Chapter

- 6.1 Use case diagrams for the proposed system
 - 6.2 Activity diagrams for the proposed system
 - 6.3 Sequence diagrams for the proposed system
 - 6.4 Entity relationship diagram for the proposed system
 - 6.5 Entity-Class diagram for the proposed system
 - 6.6 Interface-Class diagram for the proposed system
 - 6.7 Controller-Class diagram for the proposed system
- 1.8 Use case diagrams for the proposed system

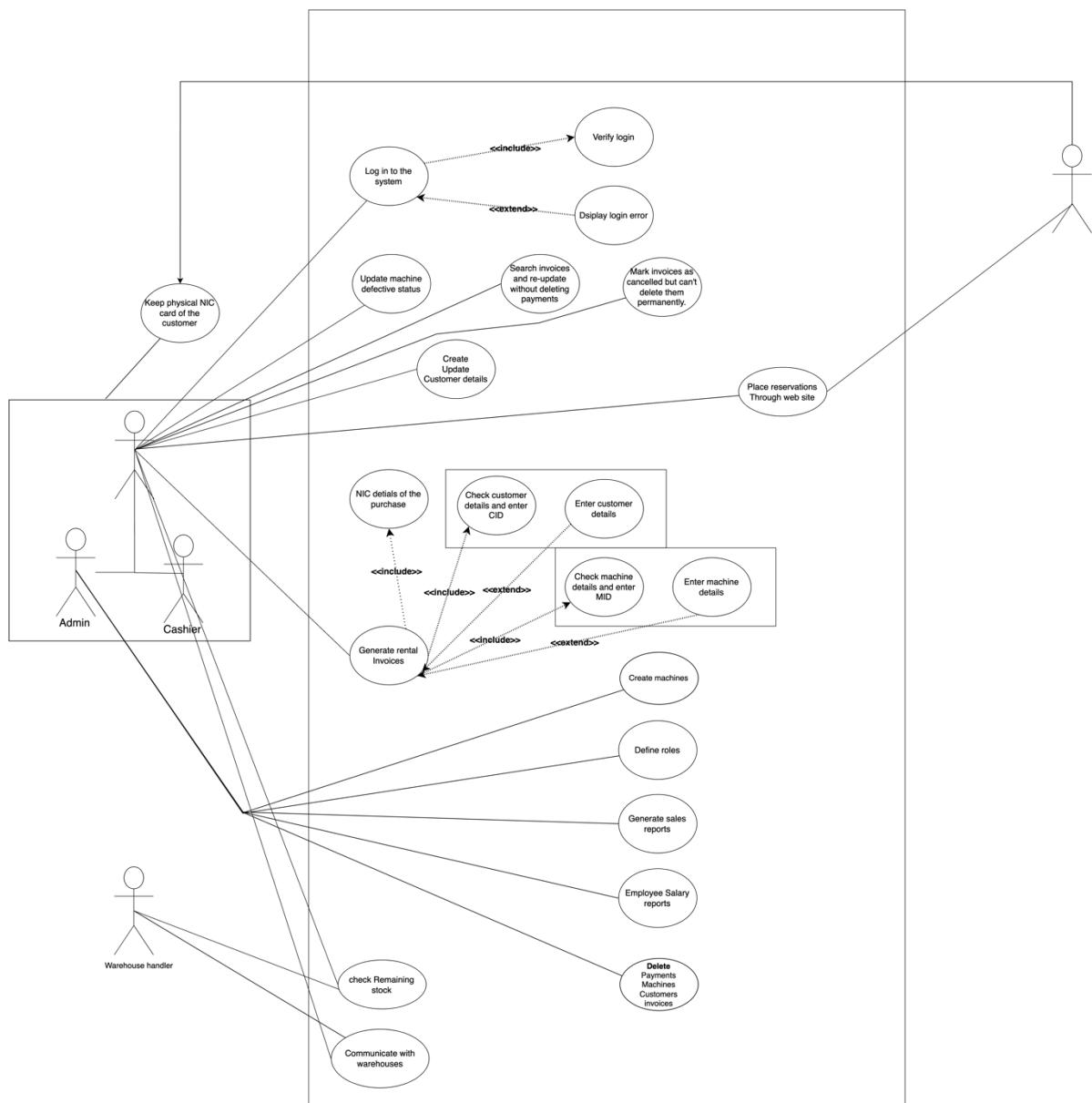
Use case diagrams serve as a holistic representation of a system's functional requirements, encompassing both internal and external elements pivotal for system design and implementation. These requirements play a crucial role in shaping the Software Development Life Cycle, as the development of use cases and actor identification precedes the system design phase. In the context of Use Case diagrams, multiple use cases coexist with system actors, where actors represent individuals interacting with the system. The figures showcasing these use case

diagrams delineate the envisioned system functionality and users' interactions, employing actors and use cases to provide a clear overview.

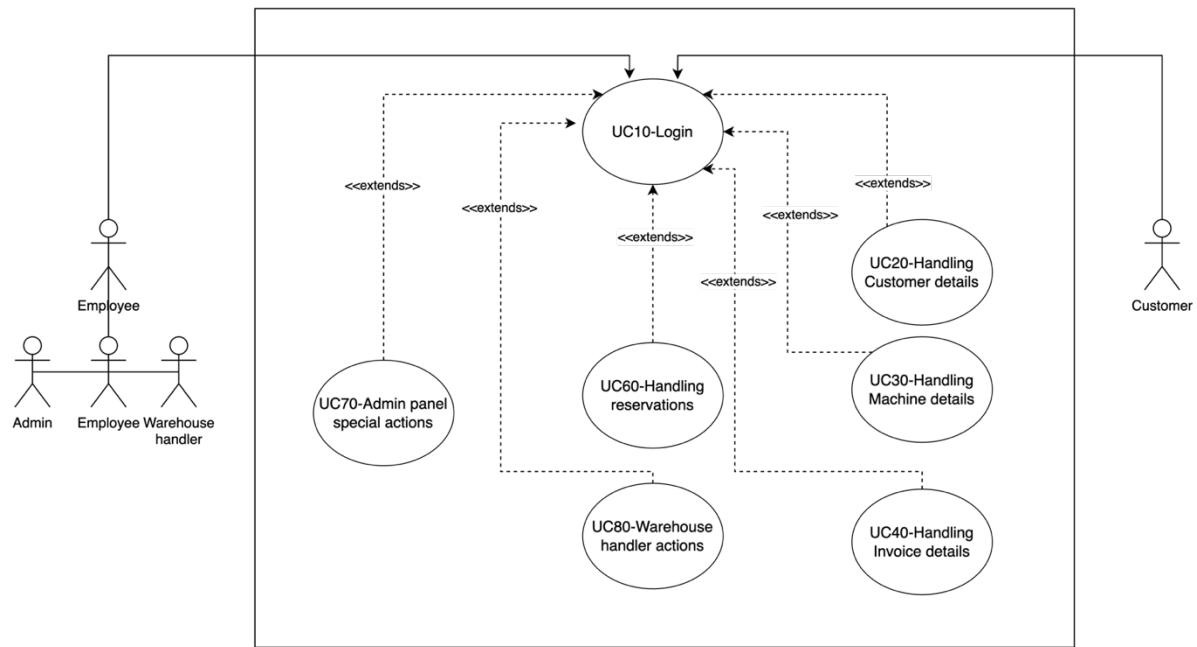
Actors of proposed system:

- Admin
- Cashier
- Warehouse handlers
- Customer

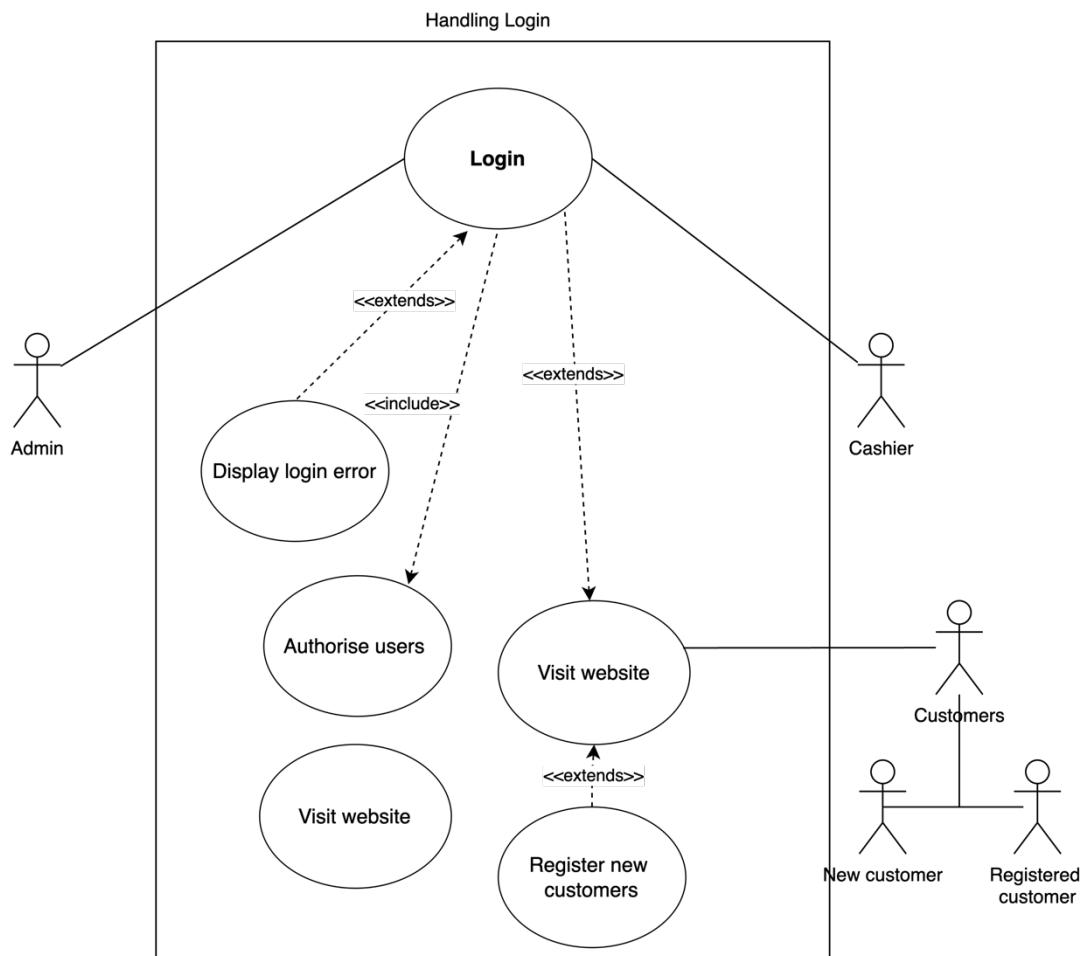
1.8.1 Overall Use Case Diagram for the Proposed System



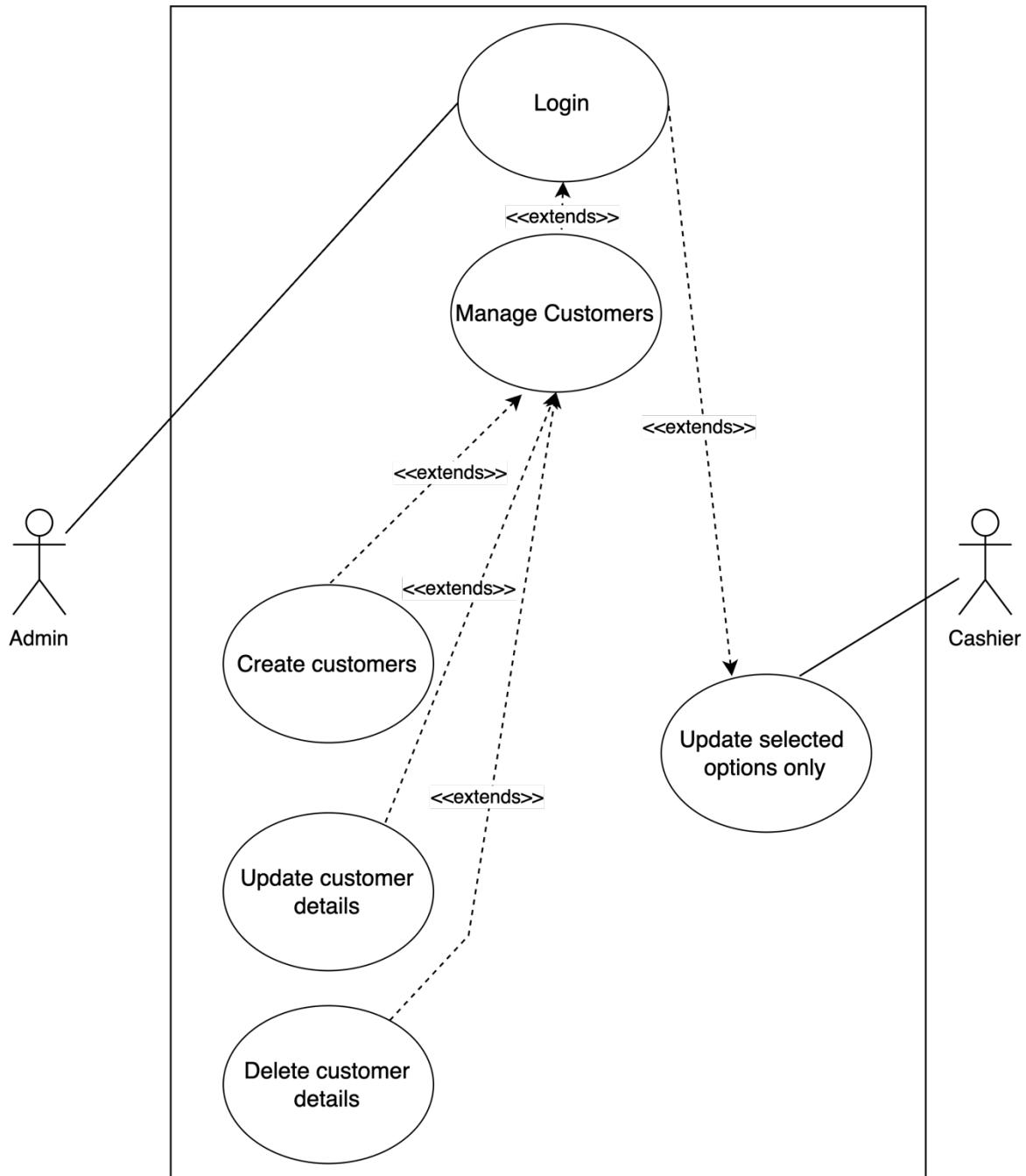
1.8.2 High level view of the Use case diagram : functionalities of the proposed system



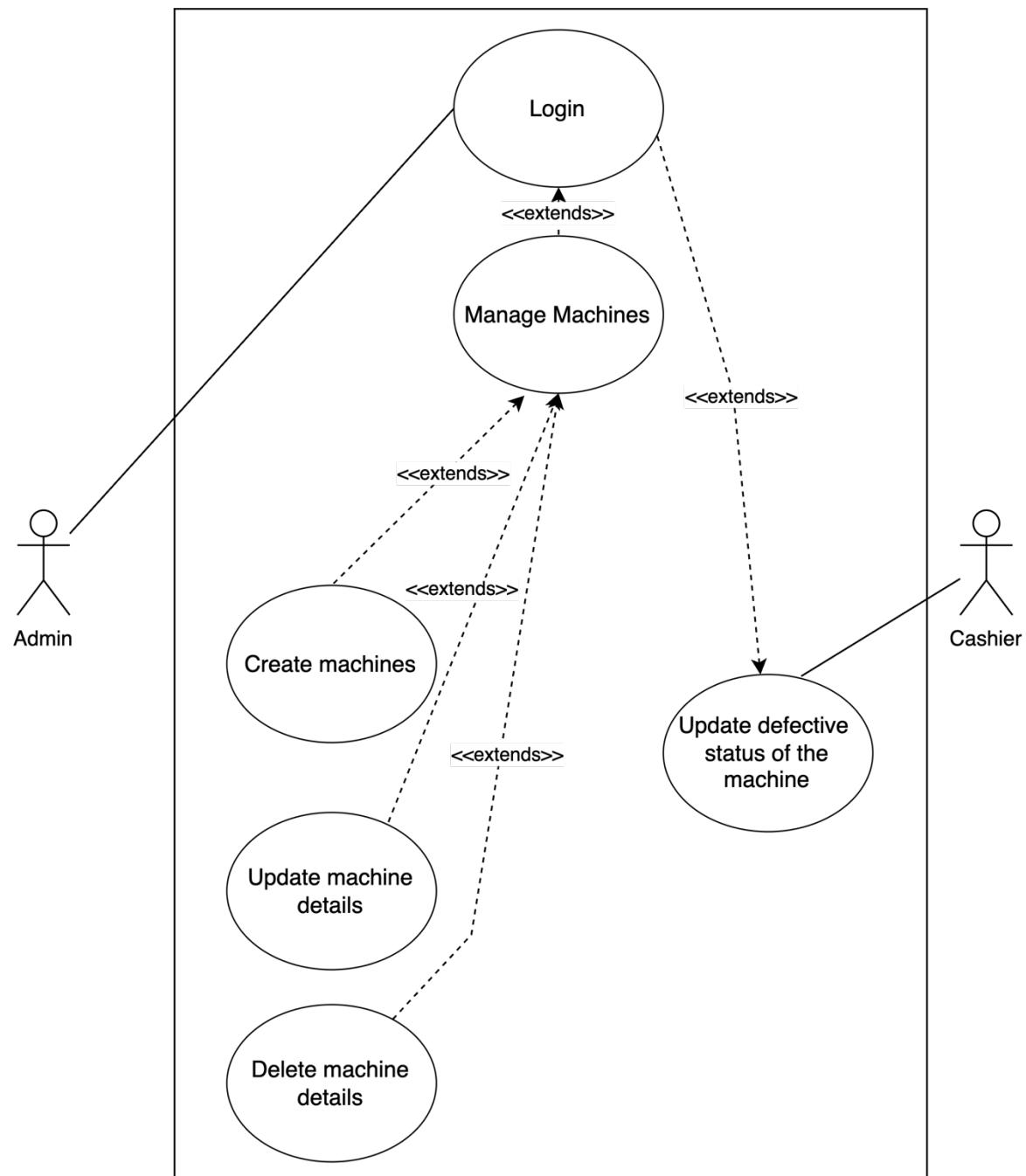
1.8.2.1 Use case diagram for describing functionalities : Login use case



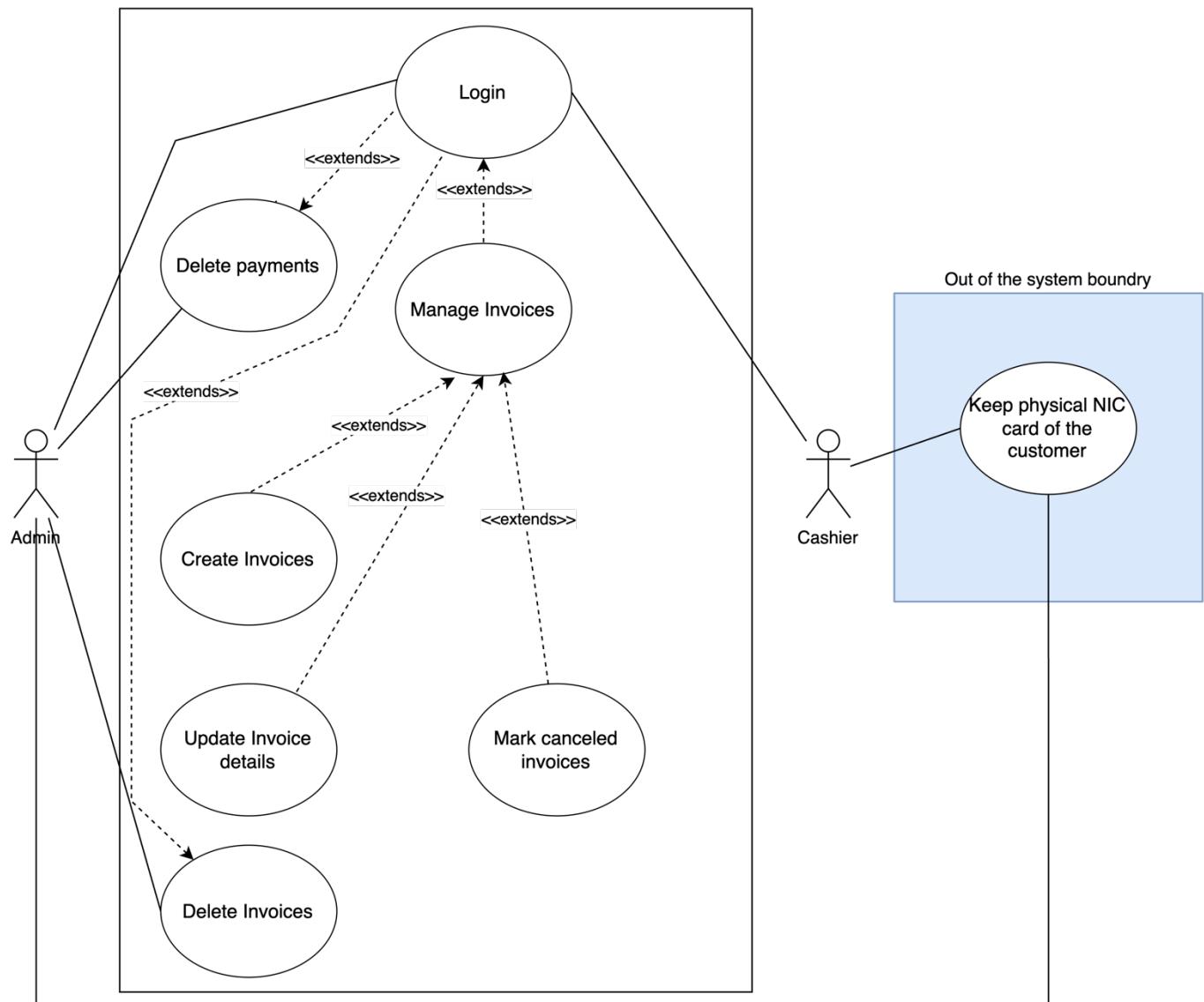
1.8.2.2 Use case diagram for describing functionalities : Handling Customer details use case



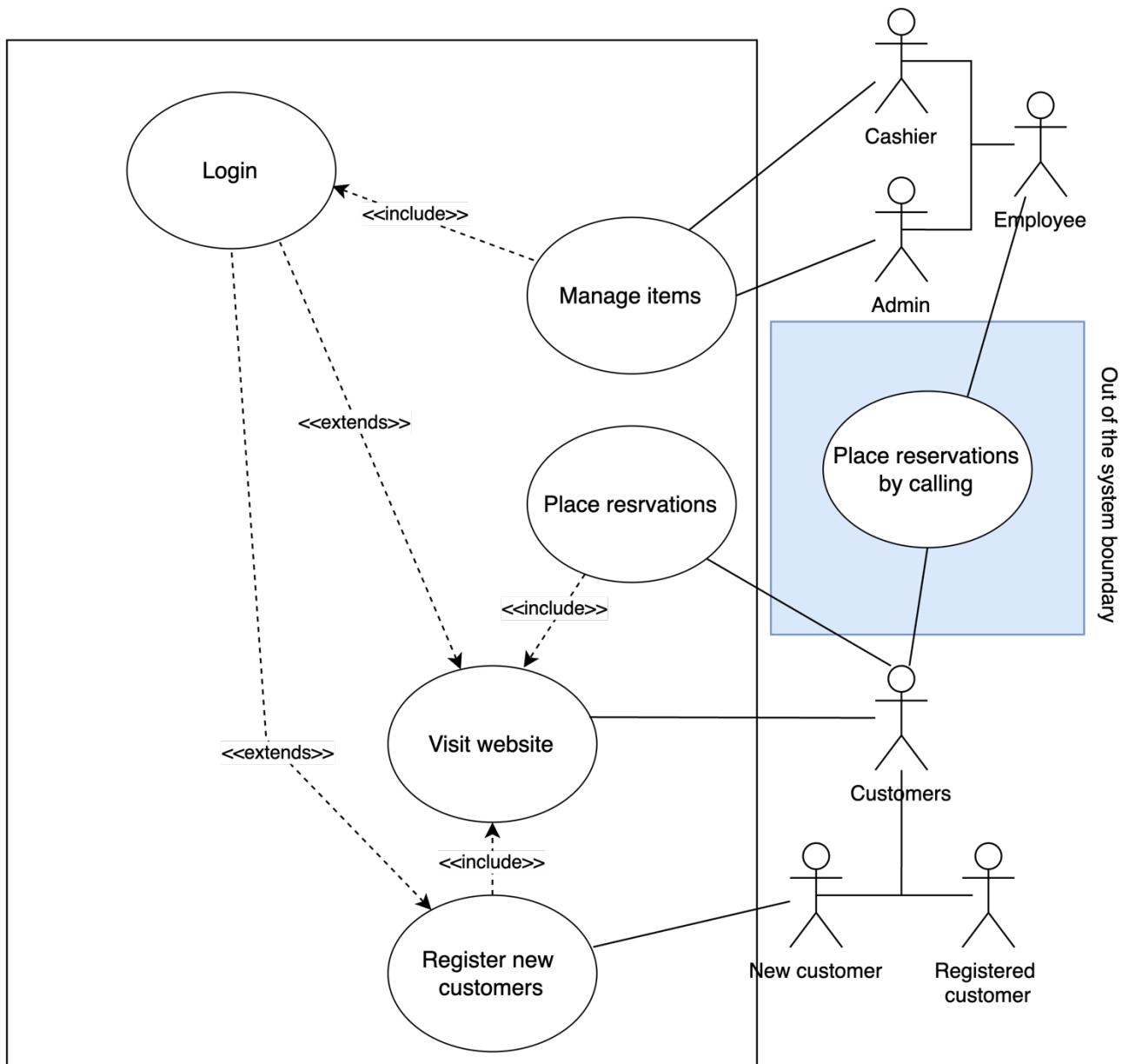
1.8.2.3 Use case diagram for describing functionalities : Handling Machine details use case



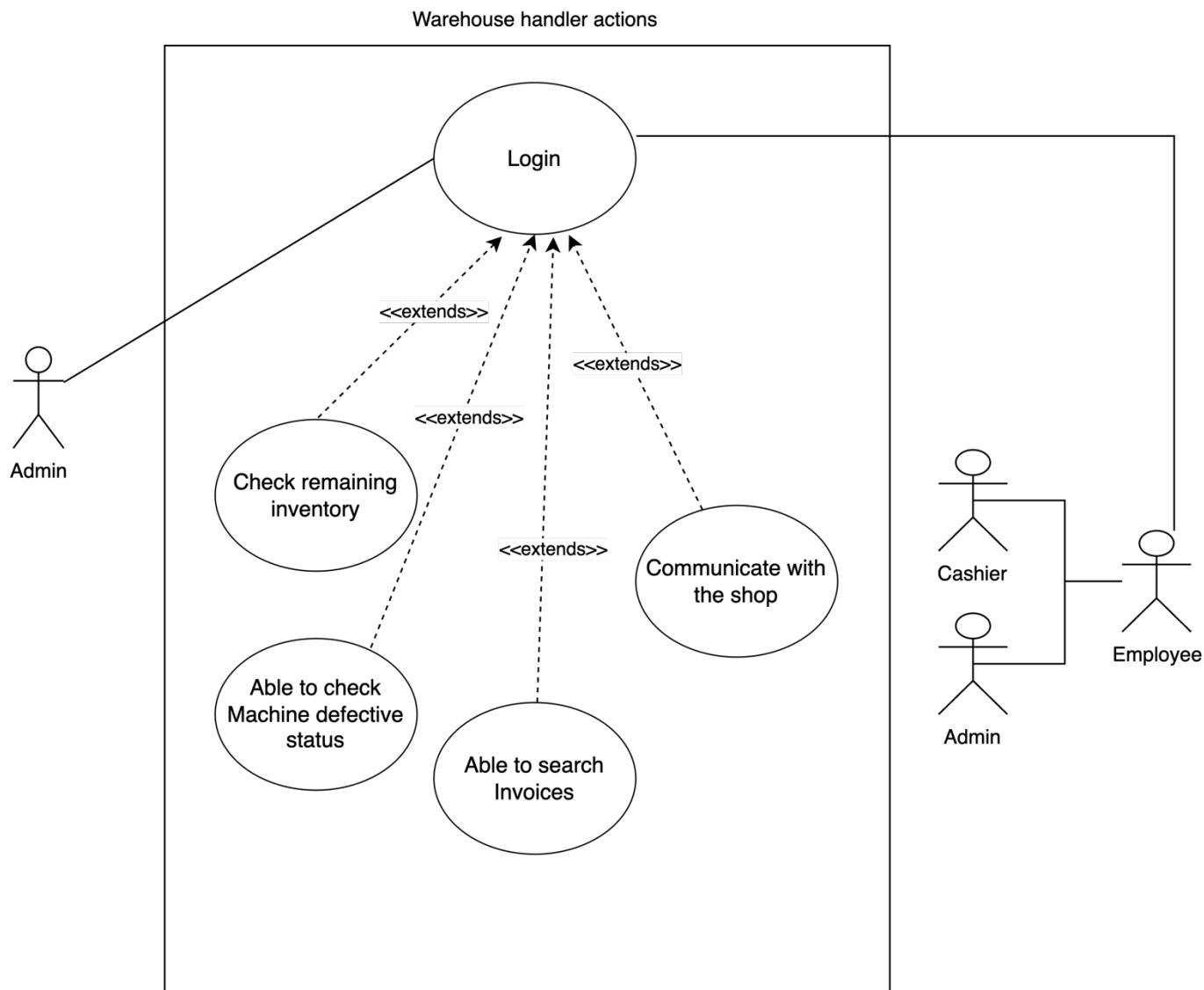
1.8.2.4 Use case diagram for describing functionalities : Handling Invoice details use case



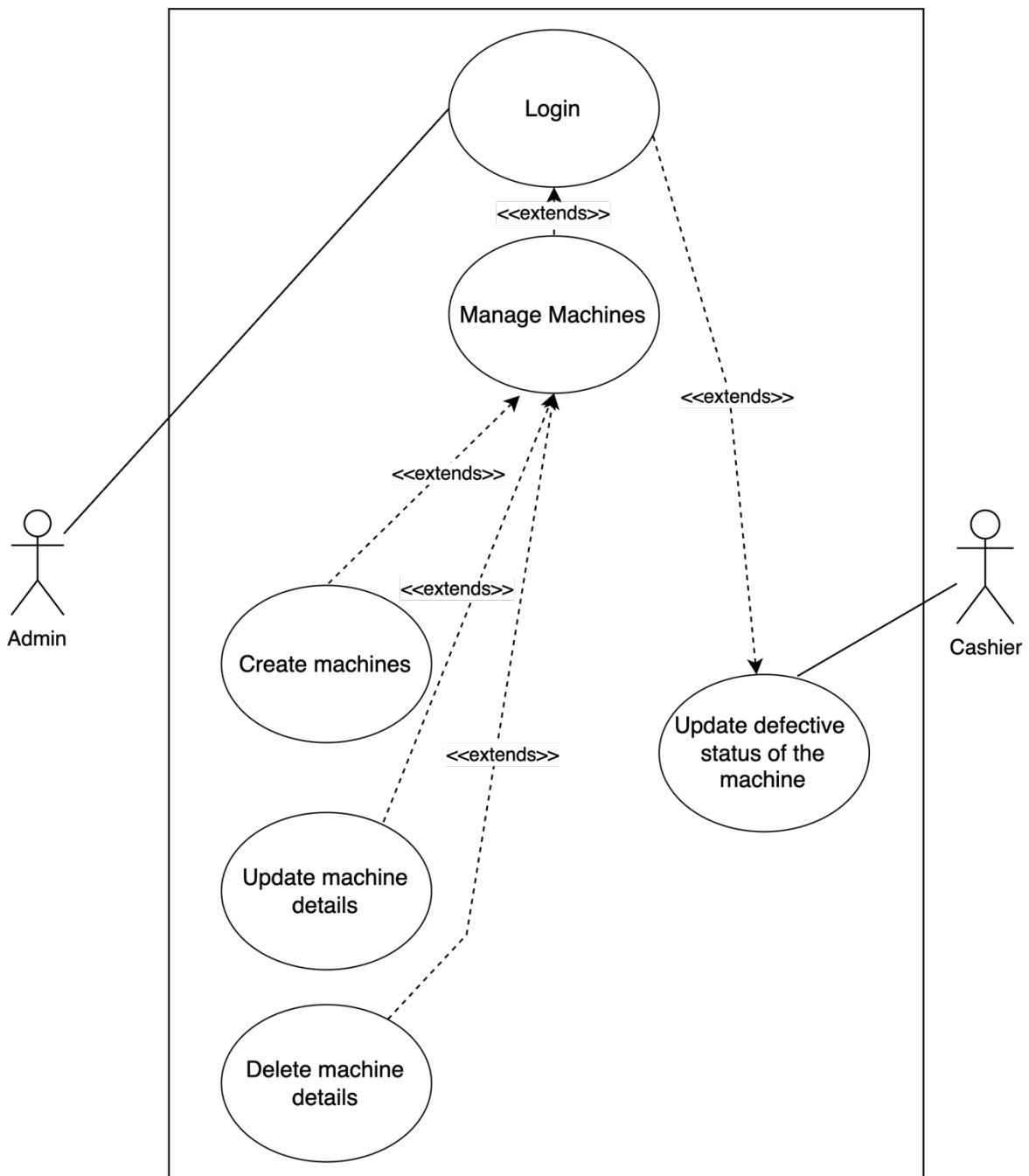
1.8.2.5 Use case diagram for describing functionalities : Handling Reservations use case



1.8.2.6 Use case diagram for describing functionalities : Warehouse handler actions use case



1.8.2.7 Use case diagram for describing functionalities : Admin panel special actions use case



1.9 User Stories and Use Case diagram for Existing System

The identification of user stories offers an end-user perspective of the system, defining software functions. These stories typically include the type of user, their desired outcome, and the reason for their request. The chapter presents a table with several user stories, outlining the functional and non-functional features specified by different user types.

Use Case ID	UC 10
Use Case Name	The process of login to the system.
Participating Actors	Business owner/ Admin, Cashier, Warehouse handler, Customers
Use Case Description	This use case describes the process of log in to the system to access the functionality of the system.
Entry condition	For the customer - should have to be registered in the system For employee - should have a valid account in the system
Basic Flow of events	1. User visits the Website and request for login 2. Enter Username and Password 3. The system verifies the Username & Password 4. The system identifies the user type 5. User logged on to the system 6. Display available options in the platform
Alternate Flow/Exceptions	2.a. New User, Direct user to the registration 2.b. Username/Password forgot, direct to Recover Password 3.a. Invalid Username or Password System displays an error message 3.b. All fields are not filled System displays an error

	message
Exit condition	User logs into the system

3.2.1 Use case description for manage customers by staff

Use Case ID	UC 20
Use Case Name	The process of handling customer details
Participating Actors	Business owner/ Admin, Cashier
Use Case Description	This use case describes the process of manage customer details by the staff in the shop.
Entry condition	<p>The system is running and accessible.</p> <p>The user (Admin or Cashier) has a valid username and password.</p> <p>The user has the necessary permissions to access the system.</p>
Basic Flow of events	<p>Admin and Cashier login to the system</p> <p>Execute method 1 or 2</p> <p>Method 1- Go to the customer section and add new customer, update and delete with their respective permissions.</p> <p>Method 2- In the invoice section, when filling out an invoice, the system will</p>

	automatically register the customer if they are new to the system.
Alternate Flow/Exceptions	<p>3.1.a. Invalid email, System displays an error message and allows the user to re-enter the email address</p> <p>3.2.a. Invalid telephone number, System displays an error message and allows the user to re-enter the telephone number</p> <p>3.3.a. Created password does not match with the re-entered password, the system displays an error message and allows the user to re-enter the password</p> <p>5.a. Details incomplete, System displays an error message and allows the user to complete the form</p>
Exit condition	New customer has been registered

Use Case ID	UC 30
Use Case Name	The process of handling machine details
Participating Actors	Business owner/ Admin, Cashier
Use Case Description	This use case describes the process of manage machine details by the staff in the shop.
Entry condition	Admin or Cashier should be logged in to the system
Basic Flow of events	<p>Admin,</p> <p>1. Go to inventory panel</p>

	<p>2.1. Add new equipment.</p> <p>2.1.1. Add equipment details.</p> <p>2.1.2. Select equipment category.</p> <p>2.1.3. Upload photograph</p> <p>2.1.4. Submit details.</p> <p>2.1.5. Confirmation message</p> <p>3.2 Update equipment details</p> <p>3.2.1. Select equipment.</p> <p>3.2.2. Edit equipment details.</p> <p>3.2.3. Save equipment details.</p> <p>3.2.4. Confirmation message</p> <p>3.3 Remove equipment.</p> <p>3.3.1. Select equipment.</p> <p>3.3.2. Click Remove button.</p> <p>3.3.3. Confirmation message</p> <p>Cashier, Go to the inventory panel. Update the defective status. Save changes and exit.</p>
Alternate Flow/Exceptions	<p>3.1.a. Invalid email, System displays an error message and allows the user to re-enter the email address</p> <p>3.2.a. Invalid telephone number, System displays an error message and allows the user to re-enter the telephone number</p> <p>3.3.a. Created password does not match with the re-entered password, the system displays an error message and allows the user to re-enter the password</p> <p>5.a. Details incomplete, System displays an</p>

	error message and allows the user to complete the form
Exit condition	<p>1.The machine details have been successfully updated in the system.</p> <p>2.The user is redirected to the machine details page or another relevant interface.</p> <p>3.A confirmation message is displayed to inform the user that the update was successful.</p>

Use Case ID	UC 40
Use Case Name	The process of handling invoice details
Participating Actors	Business owner/ Admin, Cashier
Use Case Description	This use case describes the process of manage invoice details by the staff in the shop.
Entry condition	Admin or Cashier should be logged in to the system
Basic Flow of events	<p>Go to invoice panel</p> <p>Add a new invoice.</p> <p>Search customers by phone number or NIC number.</p> <p>Fill customer details if he not an existing customer</p> <p>Search machine by machine ID.</p> <p>Enter advanced amount.</p> <p>Enter ID card handover details for the bill.</p> <p>Update invoices.</p>

	<p>Search invoice by Invoice ID or the Bill ID.</p> <p>Update relevant fields.</p> <p>Delete invoices.</p> <p>4.1. As an admin, he should be able to delete invoices.</p> <p>4.2. As a cashier, he should be able to mark invoices as cancelled.</p>
Alternate Flow/Exceptions	<p>Pending invoice option</p> <p>The Cashier decides to mark an invoice as pending instead of canceled.</p> <p>The Cashier selects the "Mark as Pending" option.</p> <p>The system updates the invoice status to "Pending," records the action, and ends the use case.</p> <p>Error in Adding New Invoice</p> <p>While adding a new invoice, the Admin encounters an error entering the advanced amount.</p> <p>The system displays an error message.</p> <p>The Admin corrects the amount and continues with the invoice creation.</p> <p>The use case continues with the corrected information.</p>

Exit condition	New customer has been registered

Use Case ID	UC 60
Use Case Name	The process of handling reservations
Participating Actors	Business owner/ Admin, Cashier, Customers (New customers, Registered customers)
Use Case Description	This use case describes the procedure and how users manage the reservation process.
Entry condition	Admin or Cashier should be able to log in to the system Customer should be able to log in to the website to place online reservations
Basic Flow of events	Customers log in to the website and choose an item to reserve. The website asks from customer to login. Customer login to the website Customer is registered in the system and reservation placed. Message box popup and ask customer to contact the shop to verify the reservation. Admin or cashier login to the system Enter to the reservation panel. Check incoming reservations. Check availability for the date. Accept the reservation. Call customer to verification
Alternate Flow/Exceptions	Customer Not Registered

	<p>The website identifies that the customer is not registered in the system.</p> <p>The system prompts the customer to register.</p> <p>The customer completes the registration process.</p> <p>The system continues with the reservation process.</p>
Exit condition	New customer has been registered

Use Case ID	UC 70
Use Case Name	The process of handling admin panel special actions
Participating Actors	Business owner/ Admin
Use Case Description	This use case describes what are the options that admin has
Entry condition	Admin should be able to log in to the system
Basic Flow of events	<p>Admin login to the system</p> <p>Enter to the Reports section.</p> <p>Select report type.</p> <p>Filter options.</p> <p>Generate reports.</p>
Alternate Flow/Exceptions	<p>Invalid report type</p> <p>Step 3.1.1: The admin selects an invalid or non-existent report type.</p>

	<p>Step 3.1.2: The system displays an error message indicating an invalid report type.</p> <p>Step 3.1.3: The admin is prompted to select a valid report type.</p> <p>Step 3.1.4: The admin selects a valid report type and continues with the report generation process.</p>
Error in report generation	<p>Step 3.1.1: The admin selects an invalid or non-existent report type.</p> <p>Step 3.1.2: The system displays an error message indicating an invalid report type.</p> <p>Step 3.1.3: The admin is prompted to select a valid report type.</p> <p>Step 3.1.4: The admin selects a valid report type and continues with the report generation process.</p>
Exit condition	<ul style="list-style-type: none"> a. The Admin selects a valid report type. b. The Admin applies filter options as needed. c. The Admin triggers the report generation process. d. The system successfully generates the requested report.

Use Case ID	UC 80
-------------	-------

Use Case Name	Warehouse handler actions
Participating Actors	Admin, Cashier, Warehouse handler
Use Case Description	This use case describes what are the options that the warehouse handler has
Entry condition	Warehouse handler needs to be log in to the system
Basic Flow of events	<p>Search Invoices:</p> <p>The Warehouse Handler selects the "Search Invoices" option.</p> <p>The system provides a search interface.</p> <p>The Warehouse Handler enters relevant criteria (e.g., date range, customer name) to search invoices.</p> <p>The system displays matching invoices.</p> <p>Communicate with the Shop (Cashier and Admin):</p> <p>The Warehouse Handler selects the "Communicate" option.</p> <p>The system provides a messaging interface.</p> <p>The Warehouse Handler can send messages to the Cashier and Admin regarding inventory, shipments, or other relevant matters.</p> <p>See Machine's Defective Status:</p> <p>The Warehouse Handler selects the "View Machine Defective Status" option.</p> <p>The system displays a list of machines with their respective defective statuses.</p> <p>Check Remaining Inventory:</p>

	<p>The Warehouse Handler selects the "Check Remaining Inventory" option.</p> <p>The system provides information on the current inventory levels for various equipment.</p>
Alternate Flow/Exceptions	<p>Communication Error</p> <p>While trying to communicate with the shop, the system encounters an error.</p> <p>The system displays an error message indicating a communication issue.</p> <p>The Warehouse Handler may retry the communication task or contact technical support.</p>
Exit condition	Press handover button on the invoice that sent by the shop as a message

1.10 This is a simple graphical representation to distinguish the permissions (functionalities) of the main system actors clearly.

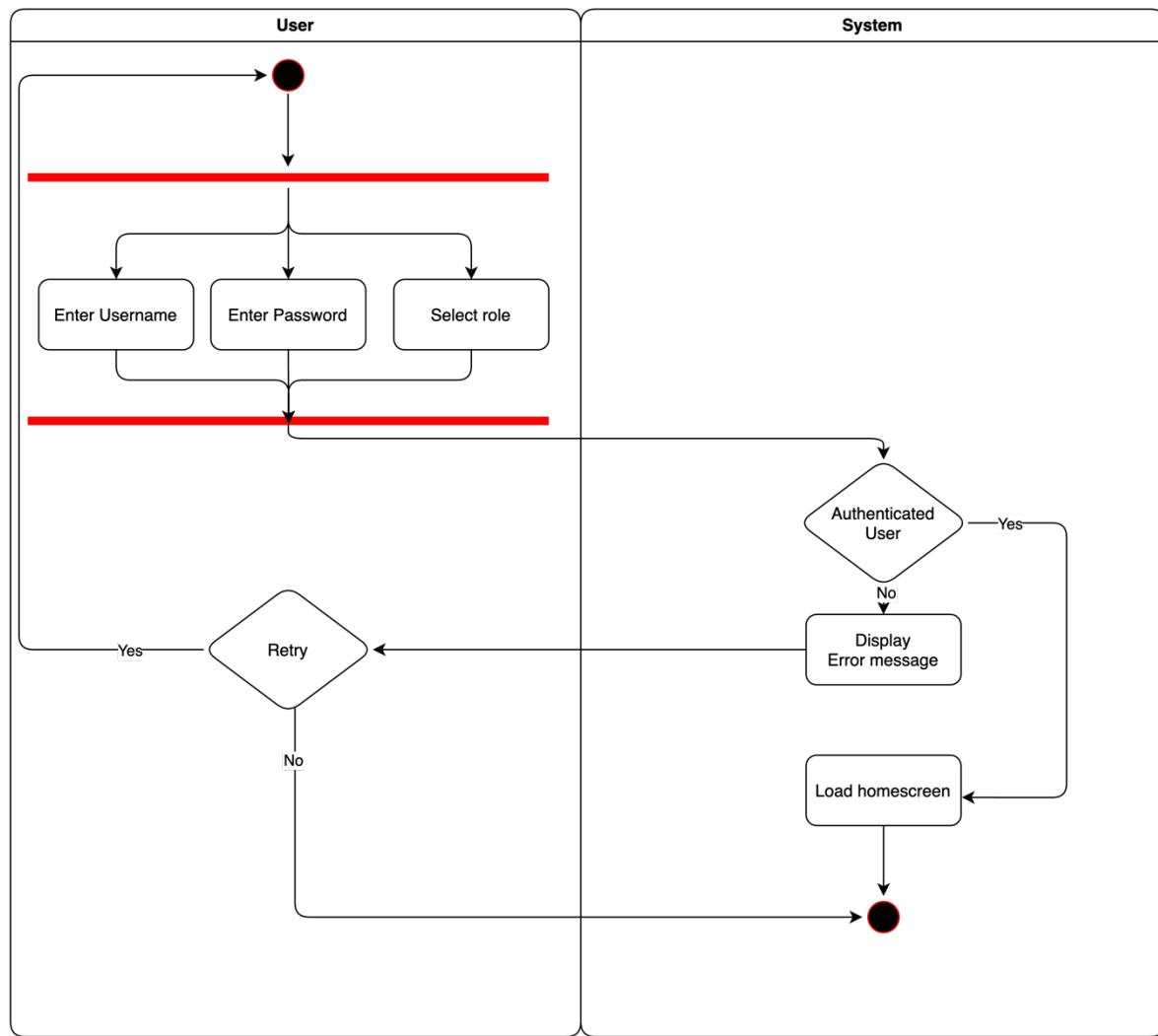
Admin			
Machines	Create	Update	Delete
	✓	✓	✓
Customers	✓	✓	✓
Invoices	✓	✓	✓
Payments	✓	✓	✓

Cashier			
Machines	Create	Update	Delete
	✗	✓ ✗ Only the defective status	✗
Customers	✓	✓ ✗ Certain details only	✗
Invoices	✓	✓	✗ Can mark as cancelled
Payments	✓	✓	✗

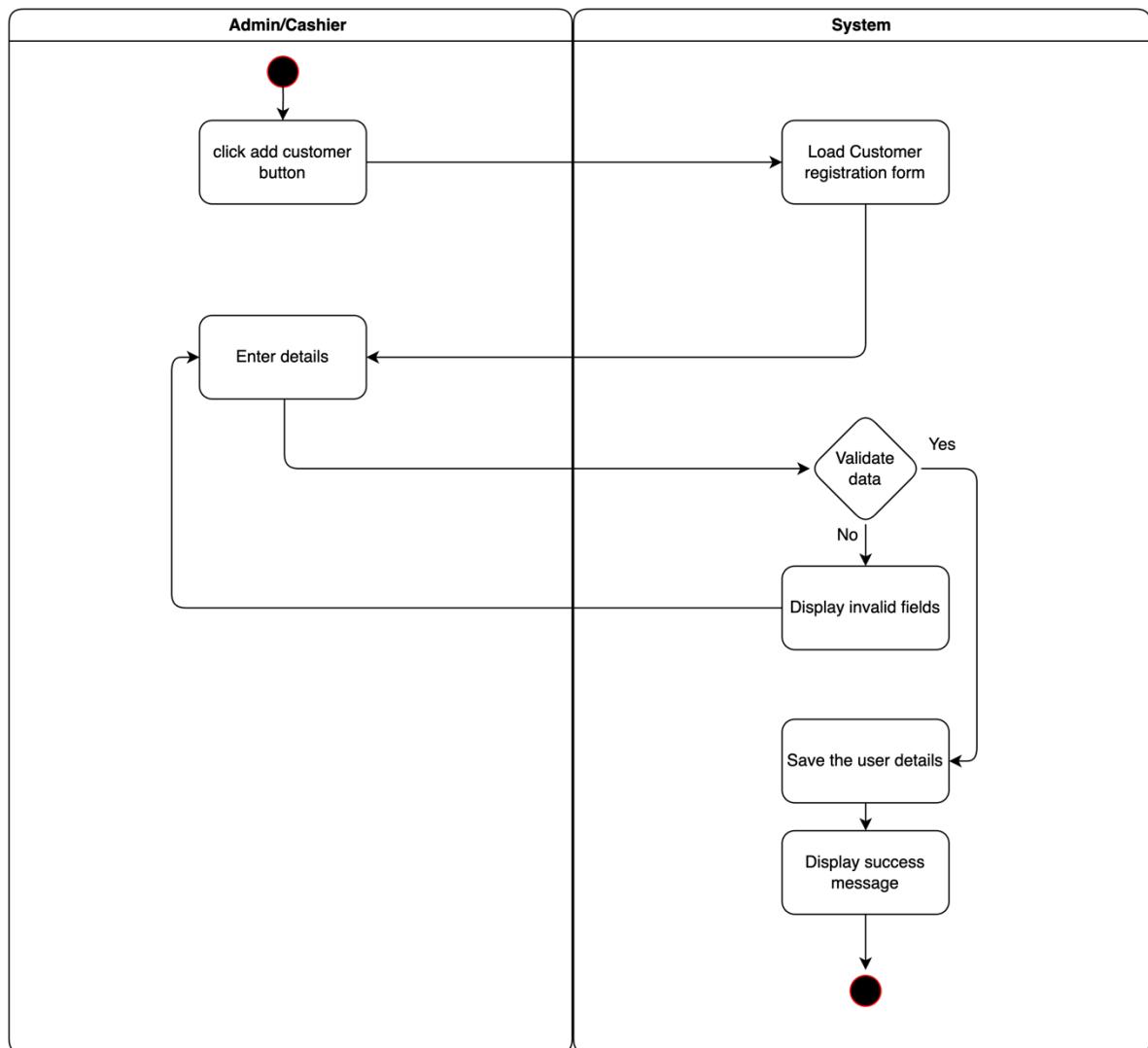
1.11 Activity diagram for the proposed system

Activity diagrams are crafted to visually illustrate the logical flow of tasks outlined in a use case, facilitating the design of the system's functions and decision-making processes. This section showcases the tasks associated with key functions and the involved users. Furthermore, it provides insights into concurrent activities, along with the pre- and post-conditions associated with each activity.

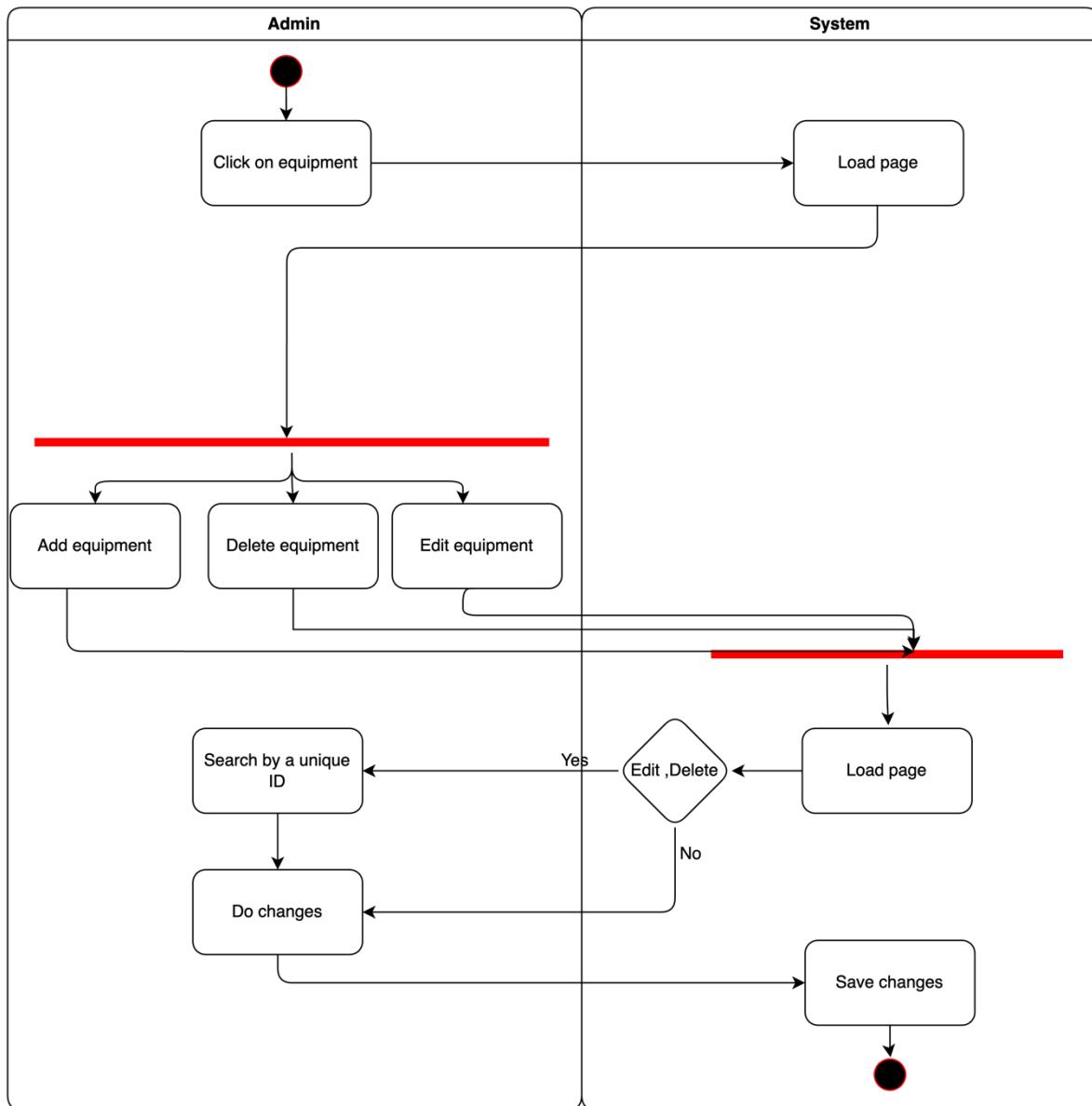
1.11.1 Activity diagram for describing functionalities: Login



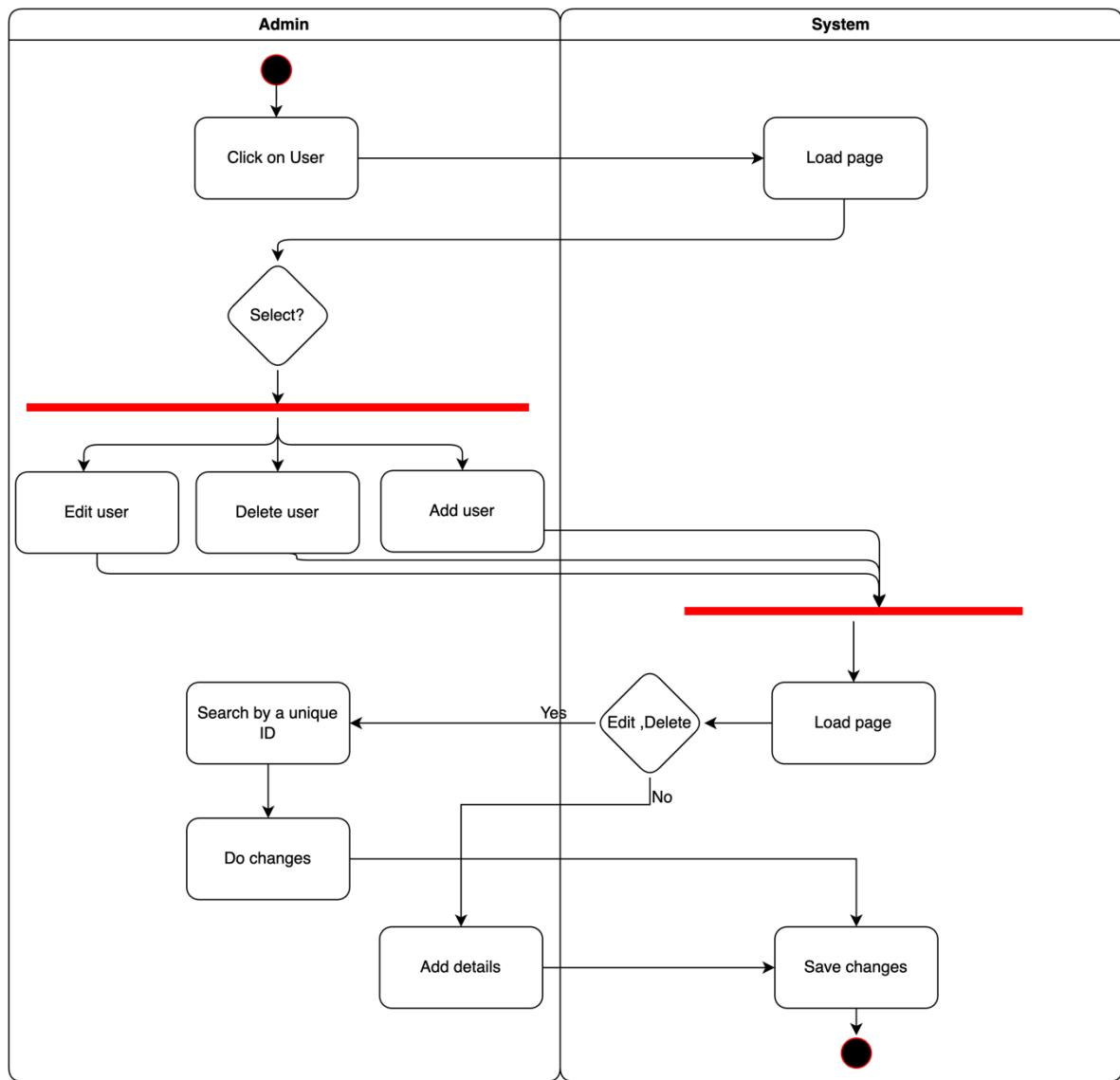
1.11.2 Activity diagram for describing functionalities: Register customers



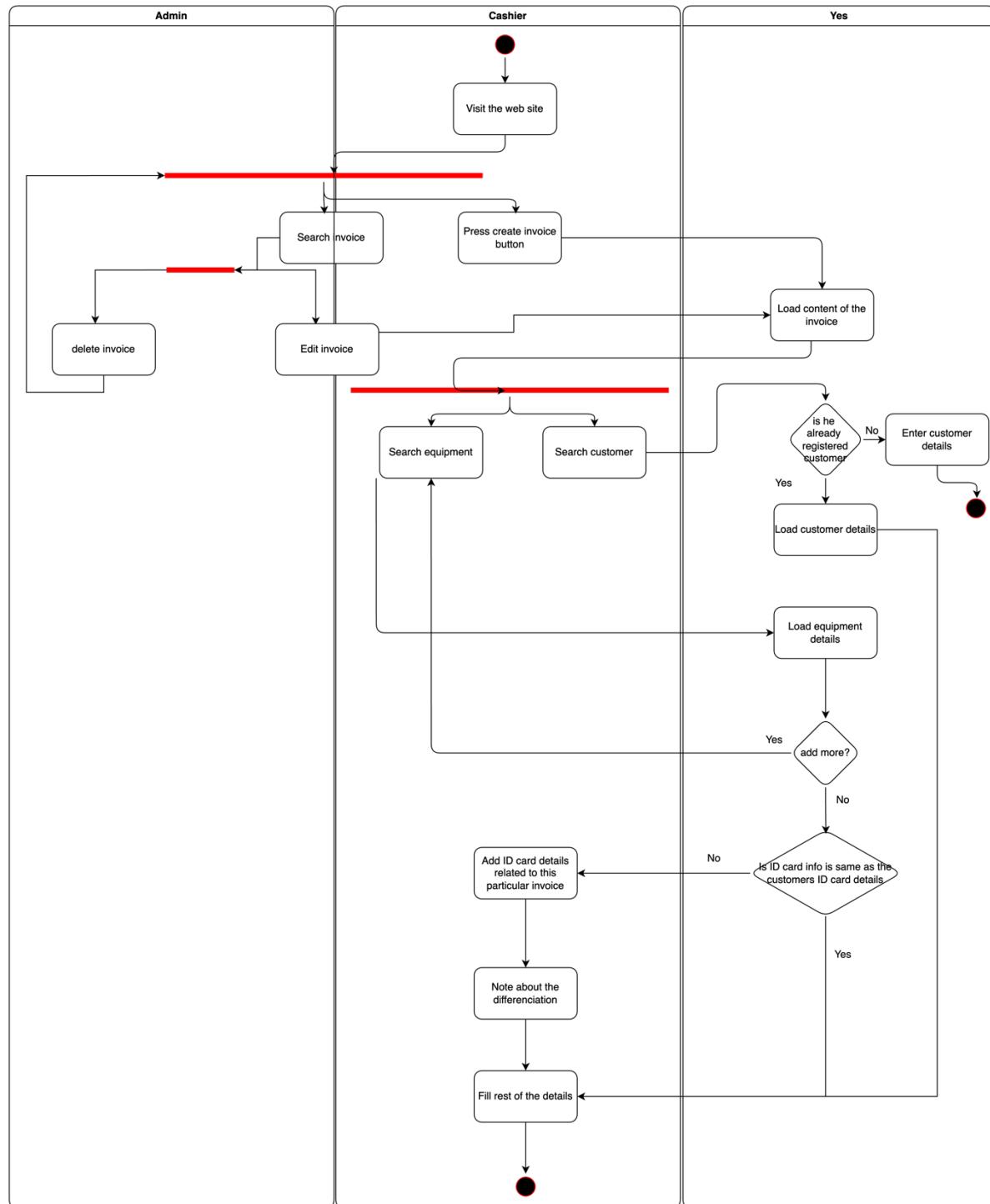
1.11.3 Activity diagram for describing functionalities: Manage equipment.



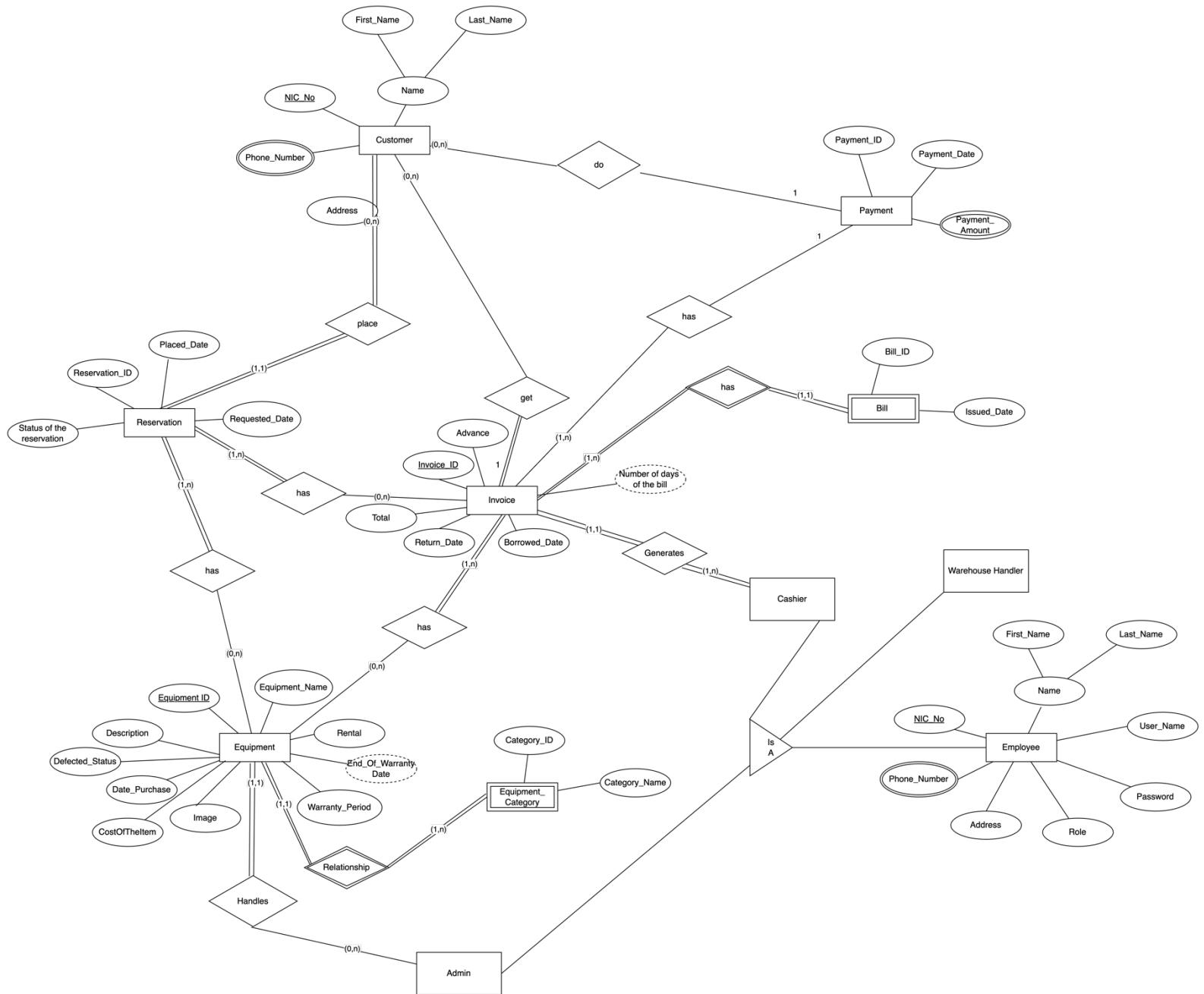
1.11.4 Activity diagram for describing functionalities: Manage users



1.11.5 Activity diagram for describing functionalities : Rent equipment



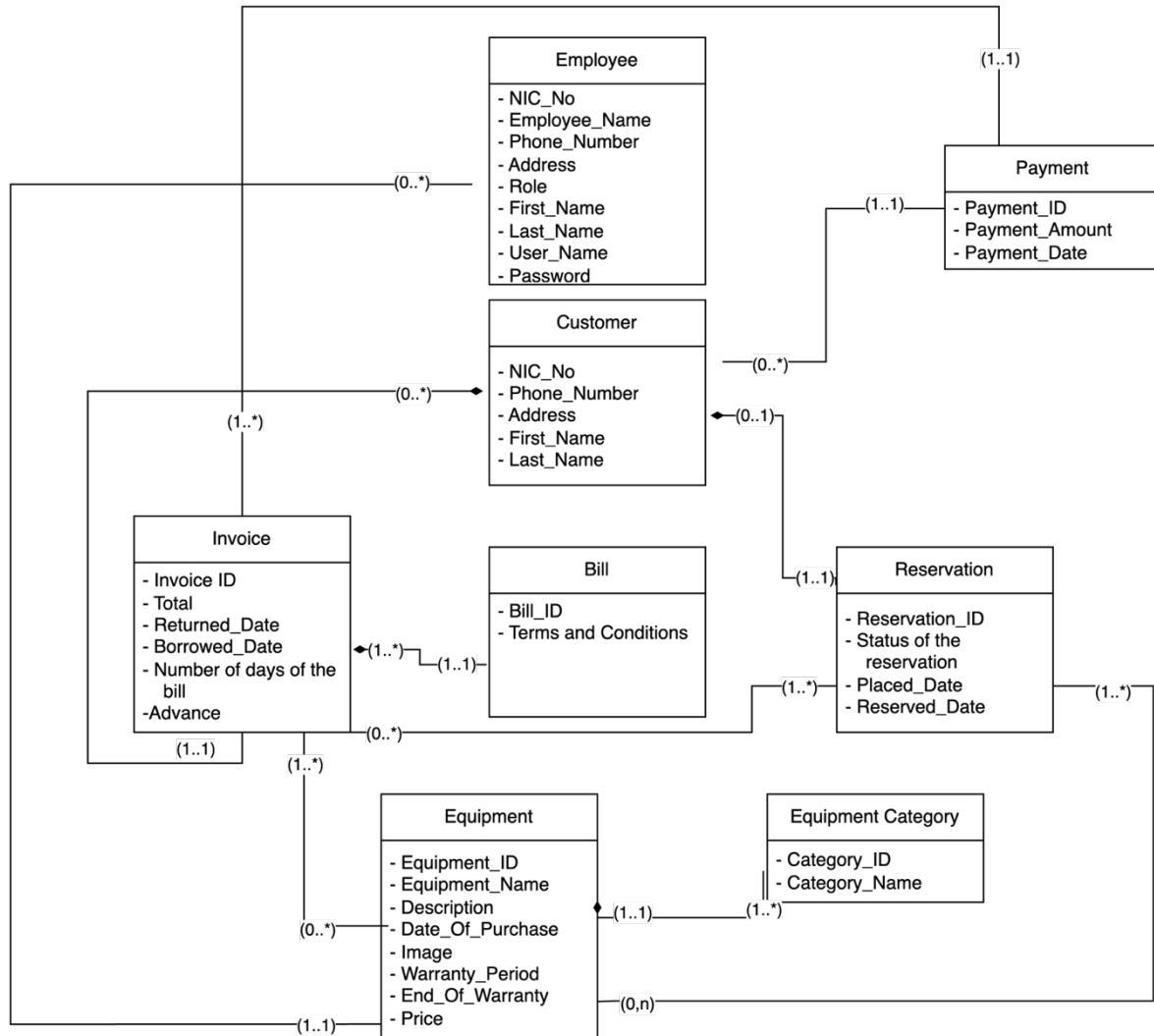
1.12 Entity relationship diagrams



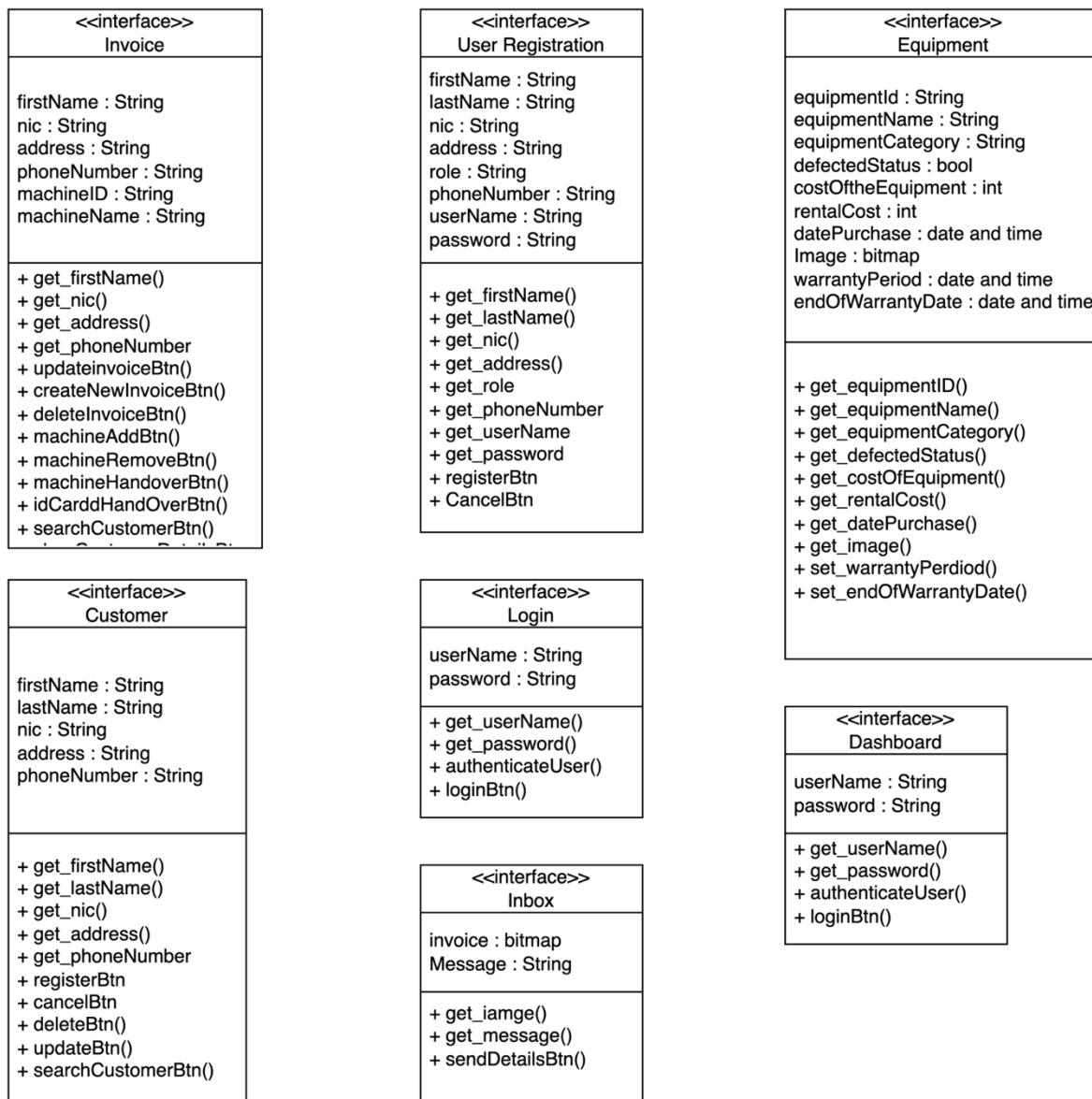
1.13 Class diagram for proposed system

Class diagram below describes the structure of proposed system by showing the system's classes, their attributes, operations, and relationships among the classes.

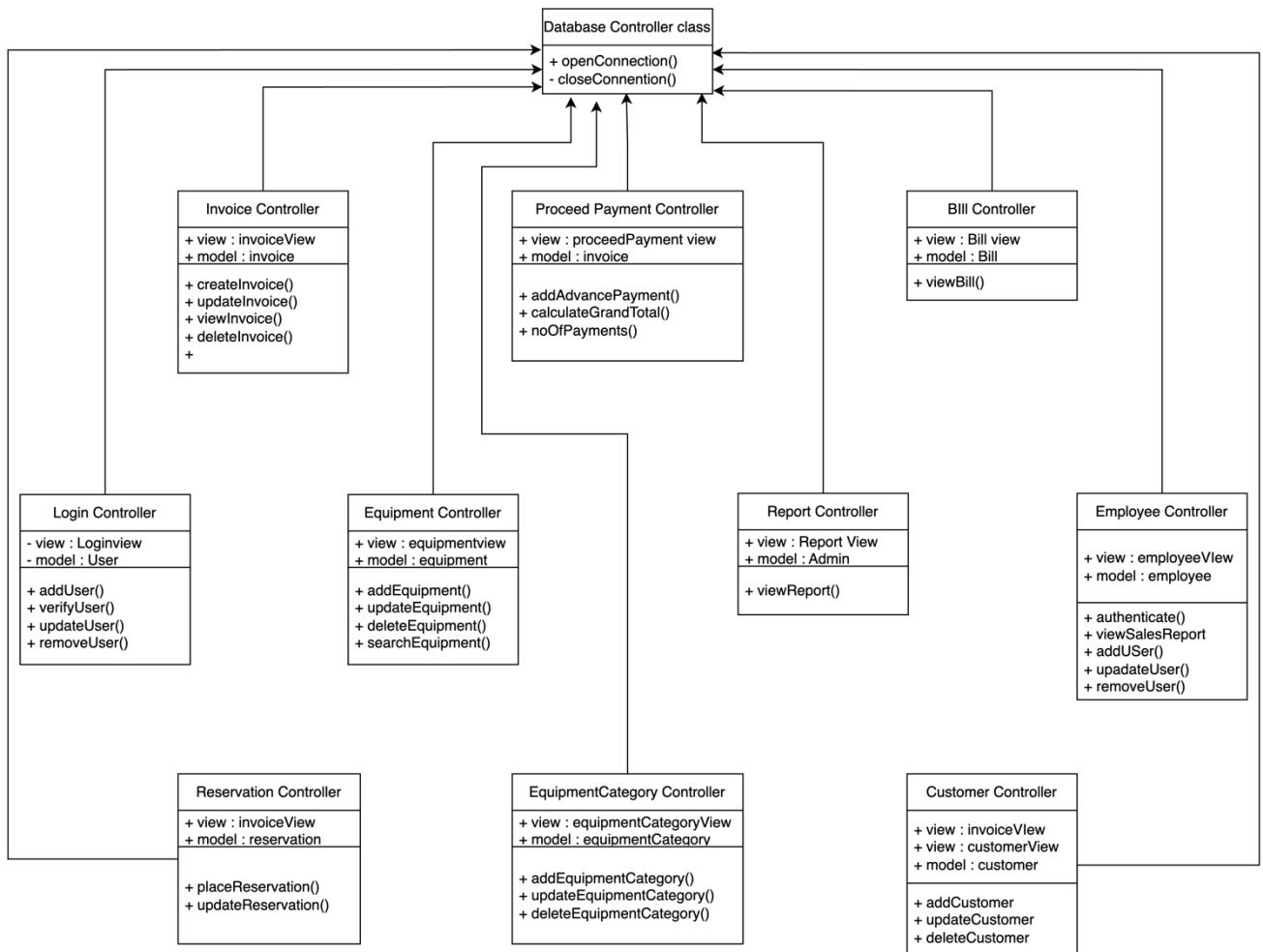
1.13.1 Entity-Class diagram



1.13.2 Interface-Class diagram



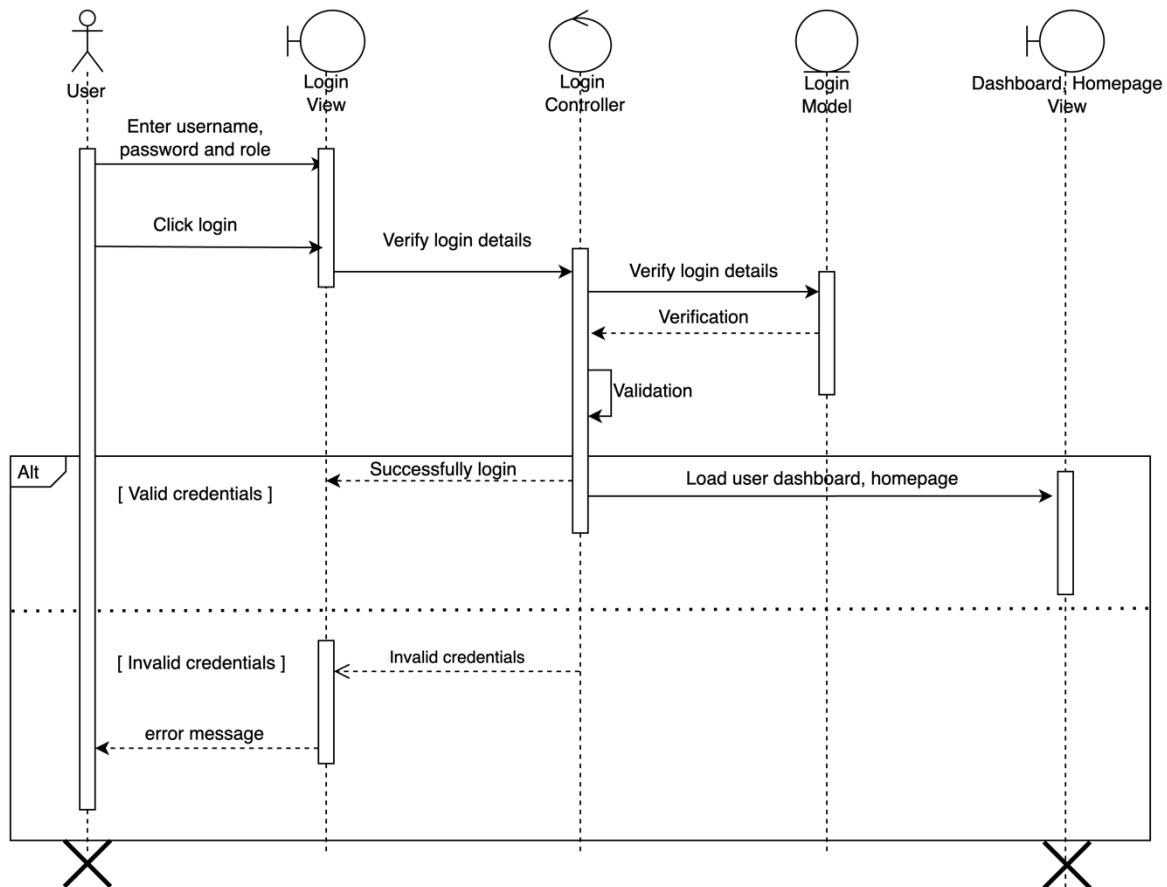
1.13.3 Controller-Class diagram



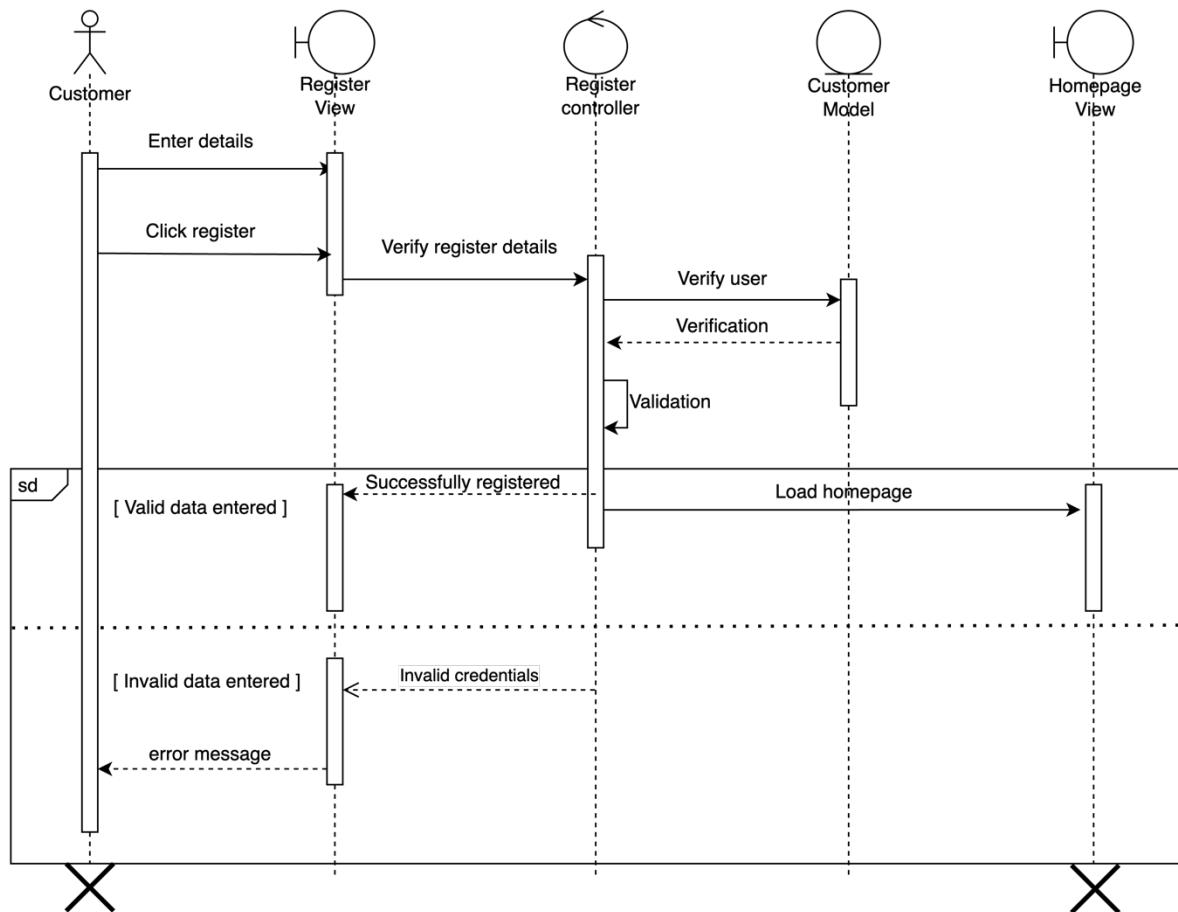
1.14 Sequence diagram

Within this segment, the sequence diagrams elucidate the interactions between the proposed system and both actors and objects, delineating the chronological sequence of the system's component engagements. Actors and objects are represented by horizontal lifelines, and the flow of data transactions is visually conveyed through these elements. The principal focus of these diagrams is to highlight the primary use cases of the system.

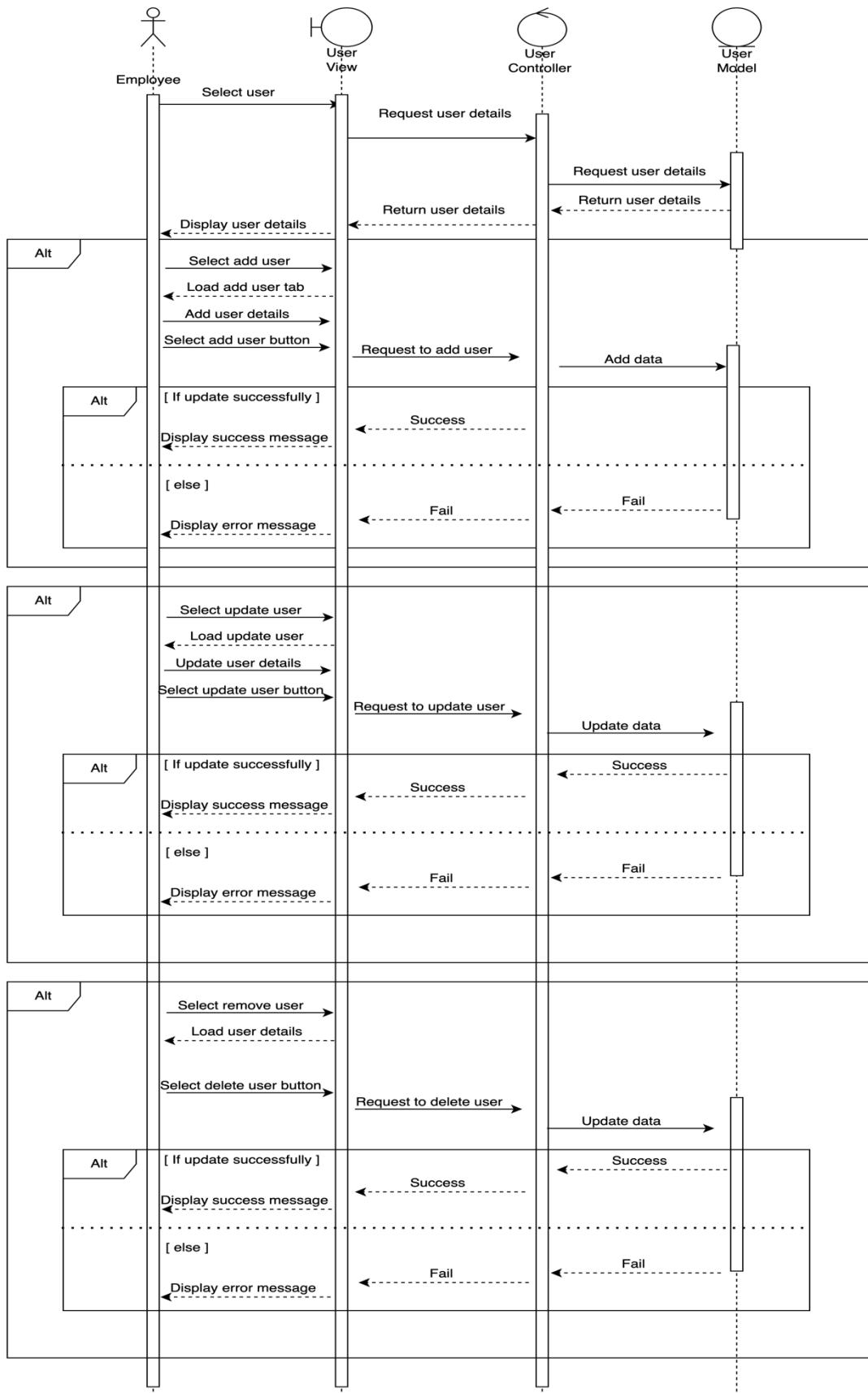
1.14.1 Sequence diagram for login



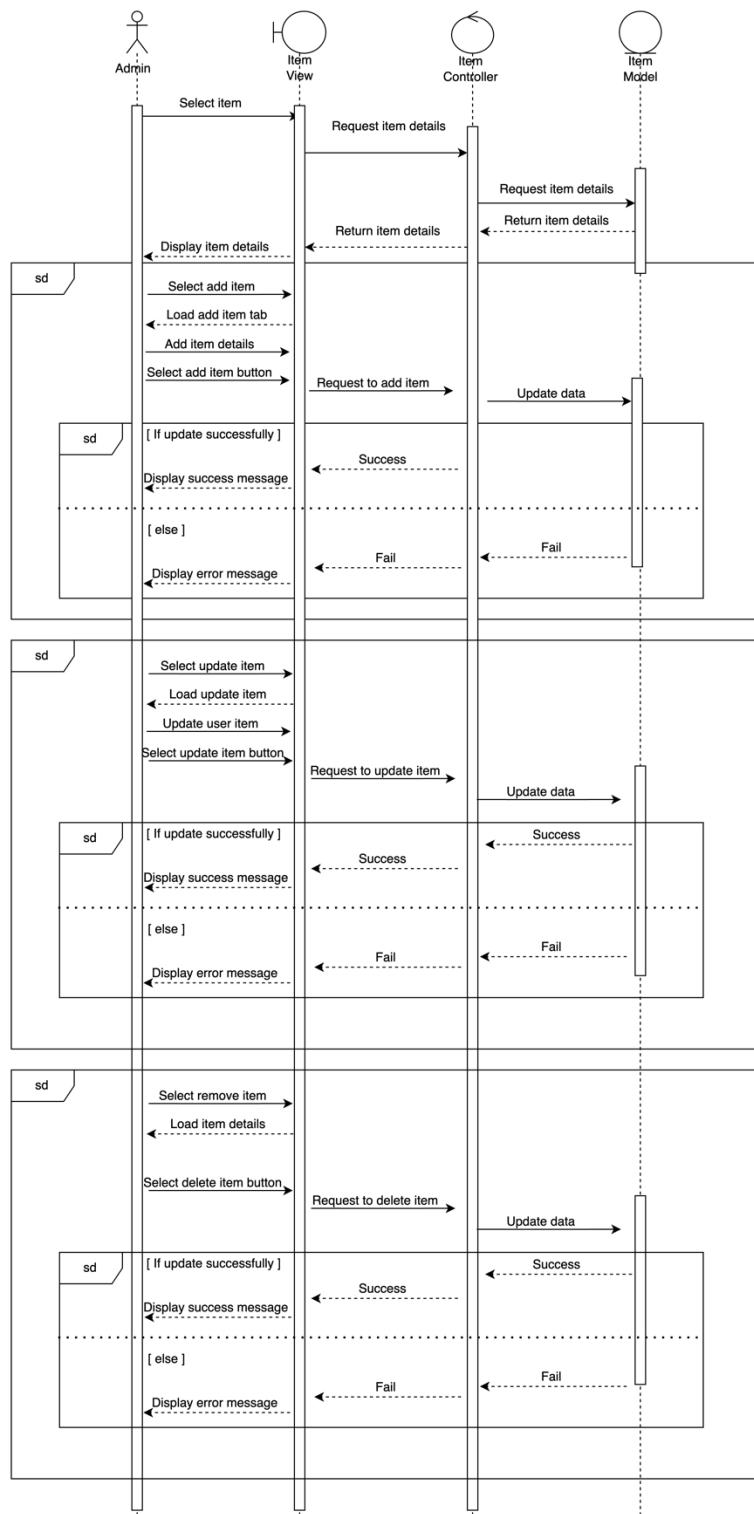
1.14.2 Customer register in the website to reserve equipment



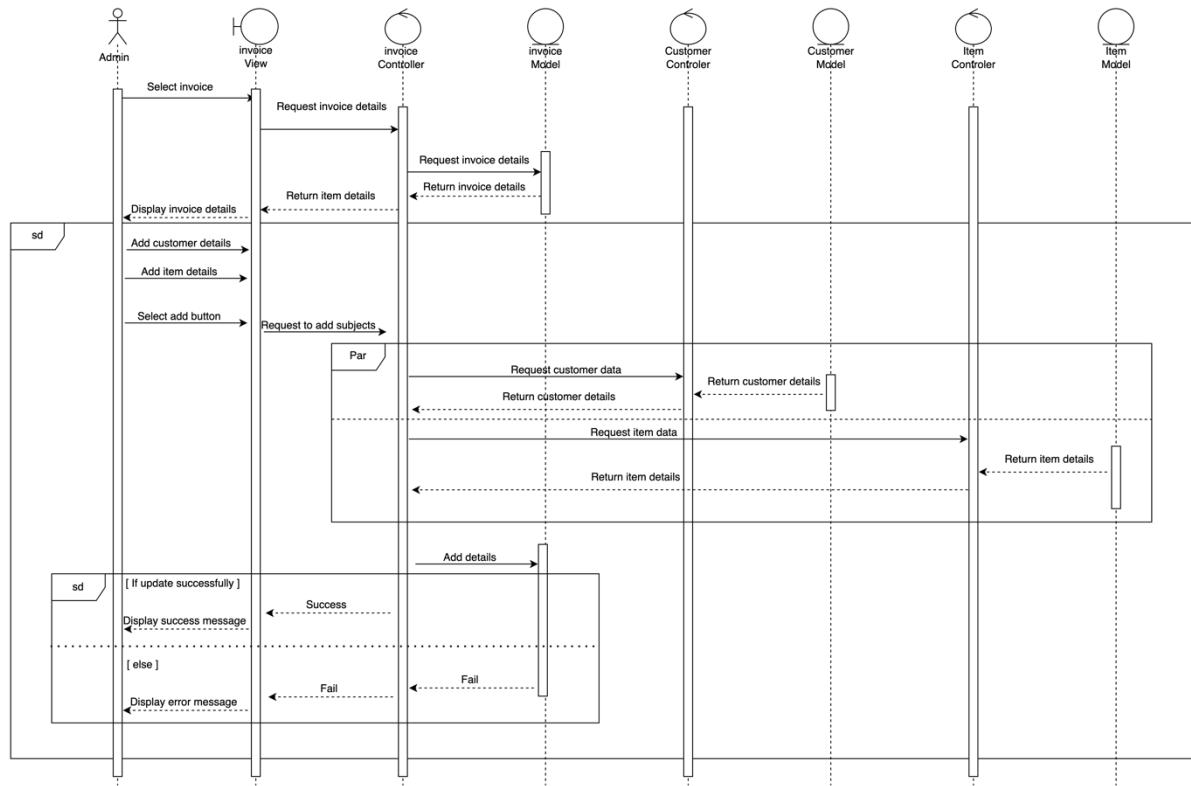
1.14.3 Manage users and customers



1.14.4 Manage equipment (items)



1.14.5 Manage Invoices



Interfaces

SignUp page

LOG IN

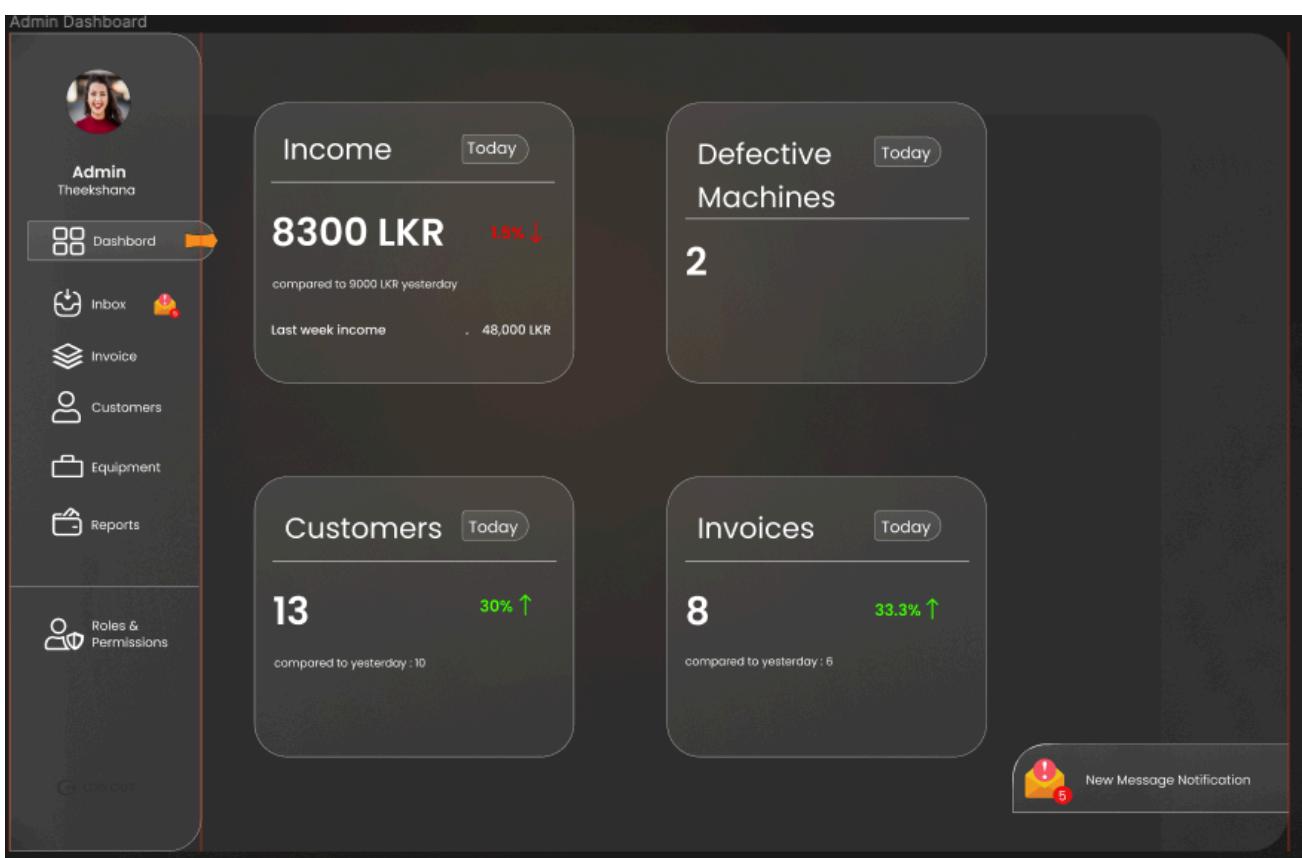
Role

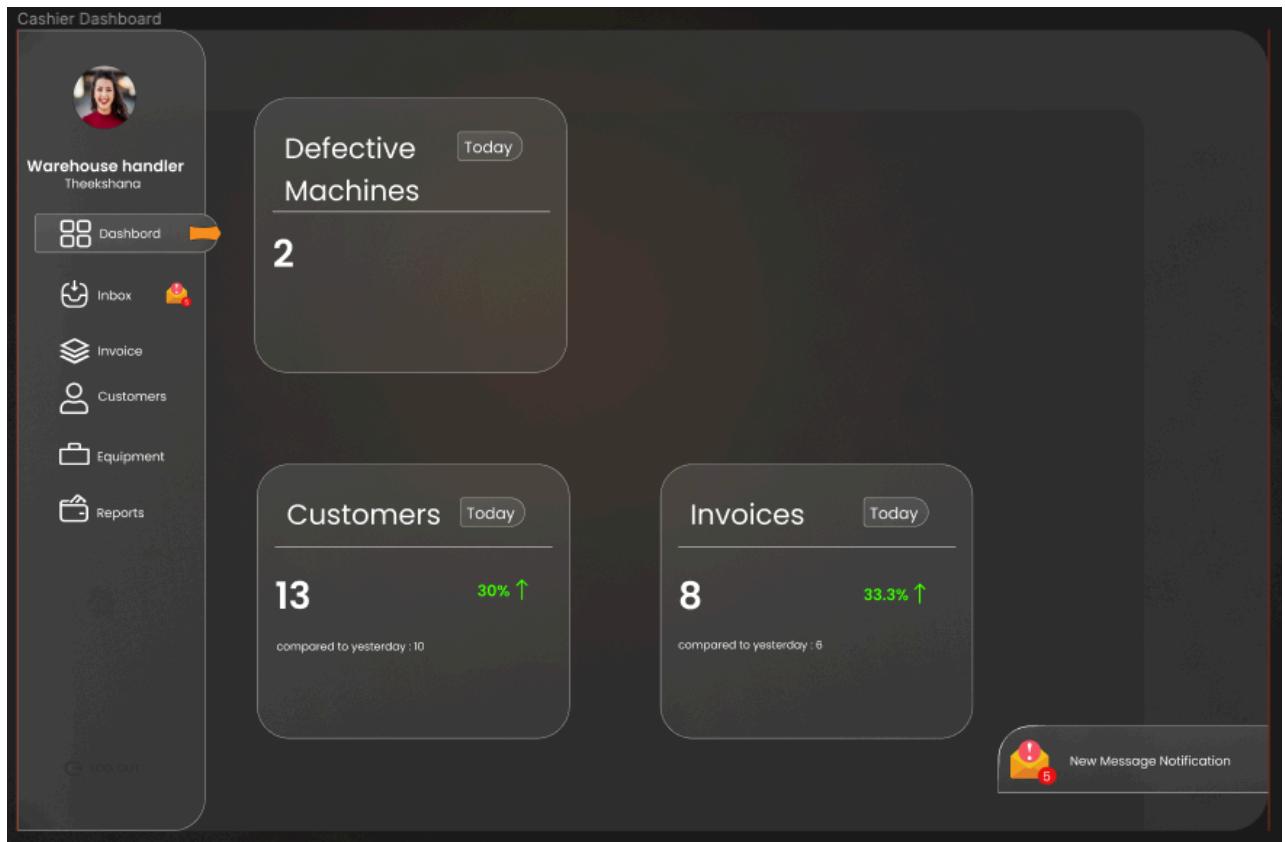
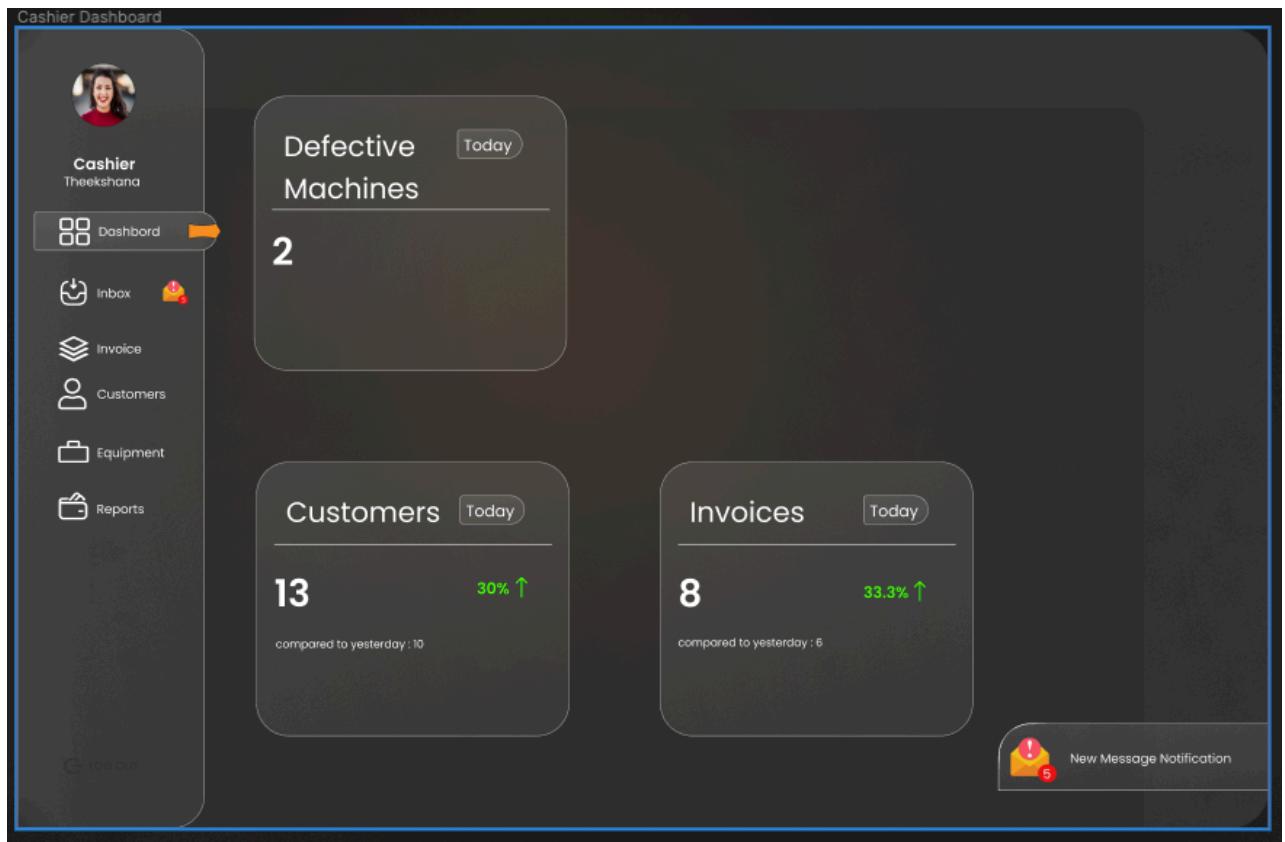
Select Role

Username

Password

LOGIN





Cashier Invoice tab

INVOICE

Search by Invoice ID Update Create New Invoice ID : 001
Date : 2023 - 12 -10

Customer Name Search Clear

Address

NIC

Phone number

Proceed to payment

Bill details

#	ID	NAME	STATUS	RATE	NO OF DAYS	TOTAL
1	MP-021	Drill	Out	250LKR	-	-
2	MC-010	Concrete Mixture	In	4500LKR	10	45,000 LKR
3	MC-002	Stamping machine	Out	2000LKR	-	-

1-5 of 10

Payment details

#	DATE	AMOUNT
1	23-12-12	20,000 LKR
2	23-12-15	5,000 LKR
3	23-12-20	2,000 LKR

1-5 of 10

Add / Remove / Handover Equipment

Equipment ID Search machine ID

Equipment Name Add Remove Handover

Handover ID card

Handover Handover Cancel

Warehouse Invoice tab

INVOICE

Search by Invoice ID Update Invoice ID : 001
Date : 2023 - 12 -10

Customer Name Search

Address

NIC

Phone number

Advance payment

Payment

Bill details

#	ID	NAME	STATUS	RATE	NO OF DAYS	TOTAL
1	MP-021	Drill	Out	250LKR	-	-
2	MC-010	Concrete Mixture	In	4500LKR	10	45,000 LKR
3	MC-002	Stamping machine	Out	2000LKR	-	-

1-5 of 10

Payment details

#	DATE	AMOUNT
1	23-12-12	20,000 LKR
2	23-12-15	5,000 LKR
3	23-12-20	2,000 LKR

1-5 of 10

Handover ID card

Handover Handover Cancel

Admin Invoice tab

INVOICE

Search by Invoice ID: Update

Invoice ID : 001
Date : 2023 - 12 -10

Customer Name:

Address:

NIC: Digital Physical

Phone number:

Add / Remove / Handover Equipment

Equipment ID: Search machine ID:

Equipment Name: Add Remove Handover

Handover ID card

Handover:

Proceed to payment

Bill details

#	ID	NAME	STATUS	RATE	NO OF DAYS	TOTAL
1	MP-021	Drill	Out	250LKR	-	-
2	MC-010	Concrete Mixture	In	4500LKR	10	45,000 LKR
3	MC-002	Stamping machine	Out	2000LKR	-	-

1-5 of 10

Payment details

#	DATE	AMOUNT
1	23-12-12	20,000 LKR
2	23-12-15	5,000 LKR
3	23-12-20	2,000 LKR

1-5 of 10

LOG OUT

Admin Inbox

Income

Cashier : Sahan 17:16
Searching invoice no 1238, he will be coming at 5:30

Warehouse handler : kavun 17:16
Tim on it

Warehouse handler : thanaka 17:16
I'll be leaving at 5:45 today

New Message Notification

1 New message notification

Admin Customer tab



Customers

Here is a list of all employees

<input type="checkbox"/>	Search ...		Search ...	Search ...		
Select	Customer Name	Address	NIC No	Phone No	Email Address	Action
<input type="checkbox"/>	Lindsey Stroud	Technology Department	Technology Department	Head of Technology	lindsey.stroud@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Sarah Brown	Technology Department	Technology Department	Head of Technology	sarah.brown@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Michael Owen	Technology Department	Technology Department	Head of Technology	michael.owen@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/> <input type="checkbox"/>

Admin
Theelashan

-  Dashboard
-  Inbox
-  Invoice
-  Customers
-  Equipment
-  Reports
-  Roles & Permissions

Cashier Customer tab

Cashier Customer tab



Theekshana

Customers

Here is a list of all employees.

Select	Customer Name	Address	NIC No	Phone No	Email Address	Action
<input type="checkbox"/>	Lindsey stroud	Technology department	Technology Department	Head of Technology	lindsey.stroud@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Sarah brown	Technology Department	Technology Department	Head of Technology	sarah.brown@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Michael Owen	Technology Department	Technology Department	Head of Technology	michael.owen@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	<input checked="" type="checkbox"/>

Cashier
Theekshana

 **Dashboard**

 **Inbox**

 **Invoice**

 **Customers**

 **Equipment**

 **Reports**

 **Logout**

Cashier Customer tab

Customers
Here is a list of all employees.

Select	Customer Name	Address	NIC No	Phone No	Email Address	Action
<input type="checkbox"/>	Lindsey Stroud	Technology department	Technology department	Head of Technology	lindsey.stroud@gmail.com	
<input type="checkbox"/>	Sarah Brown	Technology Department	Technology Department	Head of Technology	sarah.brown@gmail.com	
<input type="checkbox"/>	Michael Owen	Technology Department	Technology Department	Head of Technology	michael.owen@gmail.com	
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	
<input type="checkbox"/>	Mary Jane	Technology Department	Technology Department	Head of Technology	mary.jane@gmail.com	

Admin Equipment tab

Equipment

Equipment name	Equipment ID	Rental cost	Warranty status	Purchased date	Warranty period	End of Warranty	Defective status	Image	Description	Action	
Electric Drills	Electric Drills	Electric Drills	Out	01/15/2018	02/09/2015	05/07/2014	Working		View	Electric Drills	<input checked="" type="checkbox"/> <input type="checkbox"/>
Cordless Drills	Electric Drills	Electric Drills	In	03/22/2019	07/03/2016	09/12/2017	Working		View	Electric Drills	<input checked="" type="checkbox"/> <input type="checkbox"/>
Hammer Drills	Electric Drills	Electric Drills	Out	06/08/2017	10/30/2017	03/28/2016	Working		View	Electric Drills	<input checked="" type="checkbox"/> <input type="checkbox"/>
Angle Grinders	Electric Drills	Electric Drills	In	12/05/2016	04/14/2019	12/10/2019	Damaged		View	Electric Drills	<input checked="" type="checkbox"/> <input type="checkbox"/>
Bench Grinders	Electric Drills	Electric Drills	In	08/17/2018	11/20/2015	06/19/2018	Damaged		View	Electric Drills	<input checked="" type="checkbox"/> <input type="checkbox"/>

