



Darshan University

A Project Report on

“Home Appliances (Web) System”

Under the subject

Software Engineering (2101CS503)

B. Tech, Semester – V

Computer Science & Engineering Department

Submitted By

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Academic Year

(2023-2024)

Internal Guide

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DECLARATION

We hereby declare that the SRS, submitted along with the **Software Engineering (2101CS503)** for entitled “**Home Appliances (Web) System**” submitted in partial fulfilment for the Semester-5 of **Bachelor of Technology (B. Tech)** in **Computer Science and Engineering (CSE)** Department to Darshan University, Rajkot, is a record of the work carried out at **Darshan University, Rajkot** under the supervision of (**Prof. Ekta A Baldha**) and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

Rachchh Jay Lalitbhai

Student’s Signature

Date: _____



**Computer Science & Engineering
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CERTIFICATE

This is to certify that the SRS on **“Home Appliances (Web) System”** has been satisfactorily prepared by **Rachchh Jay Lalitbhai (22010101615)** under my guidance in the fulfillment of the course **Software Engineering (2101CS503)** work during the academic year 2023-2024.

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Thus, in conclusion to the above said, I once again thank the faculties and members of **Darshan University** for their valuable support in completion of the project.

Thanking You

Rachchh Jay Lalitbhai

ABSTRACT

The primary objective of this project is to develop a digital system for maintaining daily client and item records. The system includes features such as client login, signup dashboard, and owner login/signup. Clients can place orders for items, while the owner's dashboard displays completed and pending orders, alongside a payment management system. The admin can monitor the system, and owners have the capability to add, delete, or update their items and invite new users. In cases where a user selects an unavailable item, the system promptly notifies the end-user. Additionally, the system incorporates a help and support feature, enabling users to report issues or provide feedback to the owner. This project aims to streamline record-keeping, order processing, and user interaction, enhancing efficiency and user satisfaction.

Main purpose of this system is to reduce human efforts as much as possible.

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1 Introduction

1.1 Product perspective

A home appliance website assists end-users in purchasing home appliances at the best rates while facilitating the exchange of old items. It also aids owners in managing orders and offers cash-on-delivery as a payment option. Both owners and end-users can access the website, with a crucial emphasis on owners maintaining sales records. Notably, the current system lacks features for item exchanges and bulk selling at lower prices. Furthermore, the website includes a wide range of kitchen-related items to cater to diverse user needs, aiming to improve the shopping experience and provide efficient business tools for owners while expanding its product range.

1.2 Product features

- End-users can search for products by categories or the latest items.
- Online payment is available for exchanging old items.
- End-users can place orders at any time and have the option to cancel them.
- End-users can search for items by product name or brand name.
- -End-users also receive a GST invoice with their product.
- Small business owners can purchase wholesale items at the lowest rates.

1.3 Functional Requirement

1.3.1 Owner

- Manage products (add, update, delete) within the system.
- Maintain a history of user-sold items.
- Display graphical representations of the most and least selling items.
- Allow users to search for items using filters.
- Showcase user reviews and feedback.
- Implement authentication mechanisms for user security.
- Generate reports for sales and purchases on a monthly or yearly basis.
- Send messages or emails to customers when specific events occur.
- Offer special discounts based on the number of earned coins for the user.
- Provide support and contact options via various social media channels, available at any time.

1.3.2 End-user

- Authentication for signing up.
- Display the items.
- Show feedback from other users.
- Offer support and feedback options.

1.3.3 User

- Add and remove products from the cart.
- Display the cart's history.
- Enable online payment.
- Provide the option for giving online feedback.
- Complete the item purchase.
- Notify the user when an item becomes available.
- Allow item searching with filtering options.
- Generate online invoices and warranty coupons.
- Facilitate the exchange of old items, offering the price for the old item.
- Share the link with friends and earn coins.
- Implement item delivery functionality.

1.4 Non-Functional Requirement

1.4.1 Usability:

- The UI should be simple enough for everyone to understand and get the relevant information without any special training. Different languages can be provided based on the requirements.

1.4.2 Accuracy:

- The data stored about the Item and the bills amount calculated should be correct, consistent, and reliable.

1.4.3 Reliability

- The System should be able to handle large volume data and user requests with minimal response.

1.4.4 Maintainability:

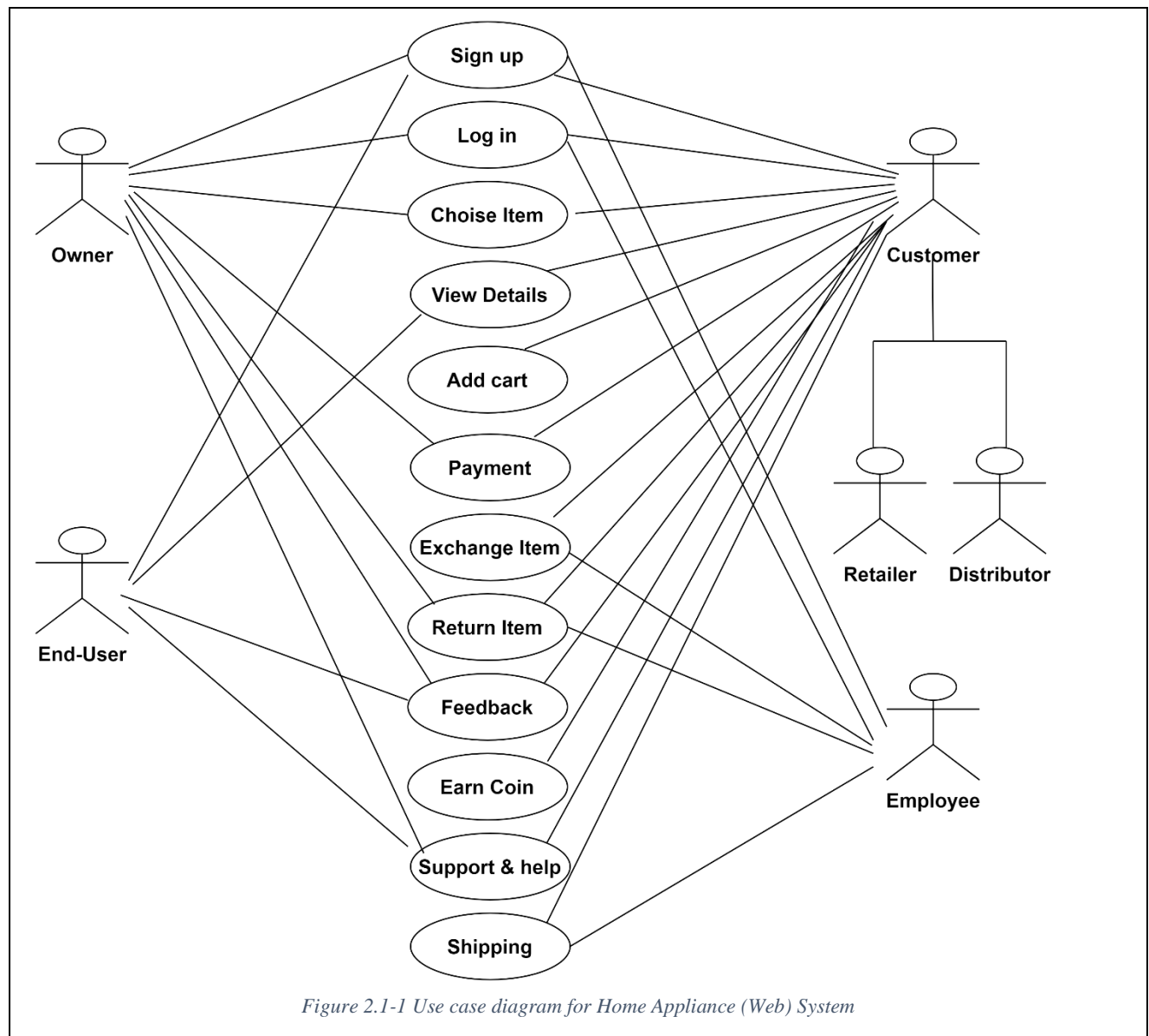
- The software should be easily maintainable and adding new features and making changes to the software must be as simple as possible. In addition to this, the software must also be portable.

1.4.5 Integration:

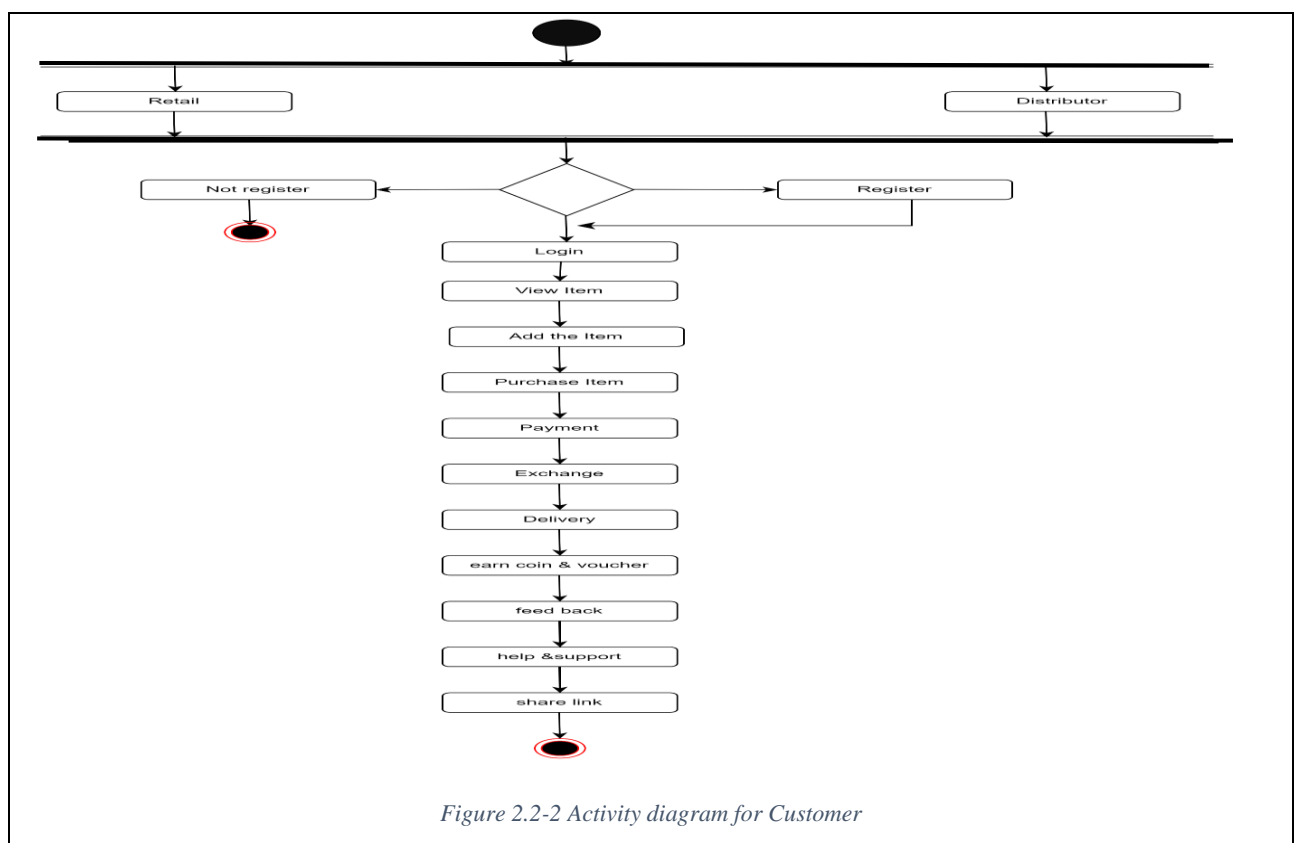
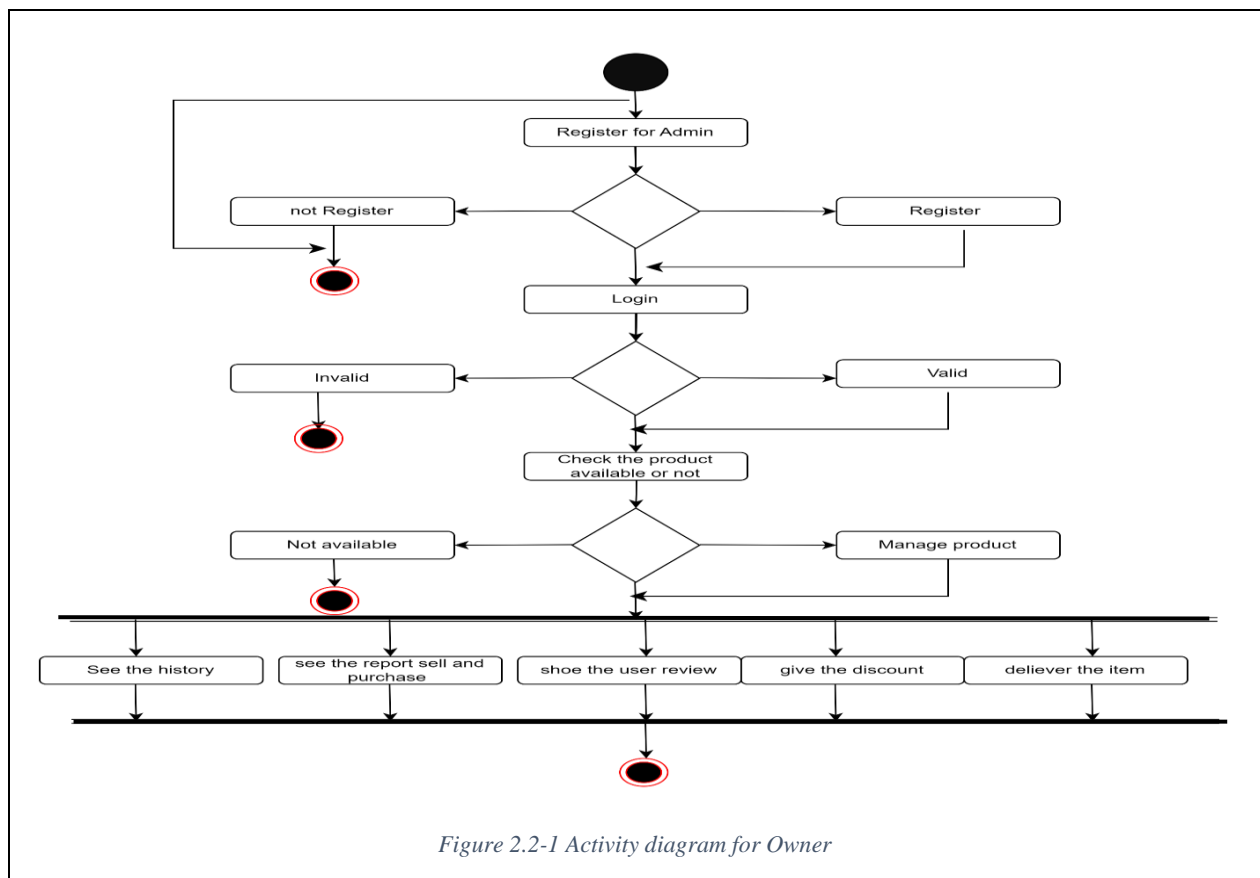
- The System should have the ability to integrate with modules such as inventory management. This Integration allow for smooth data exchange between systems.

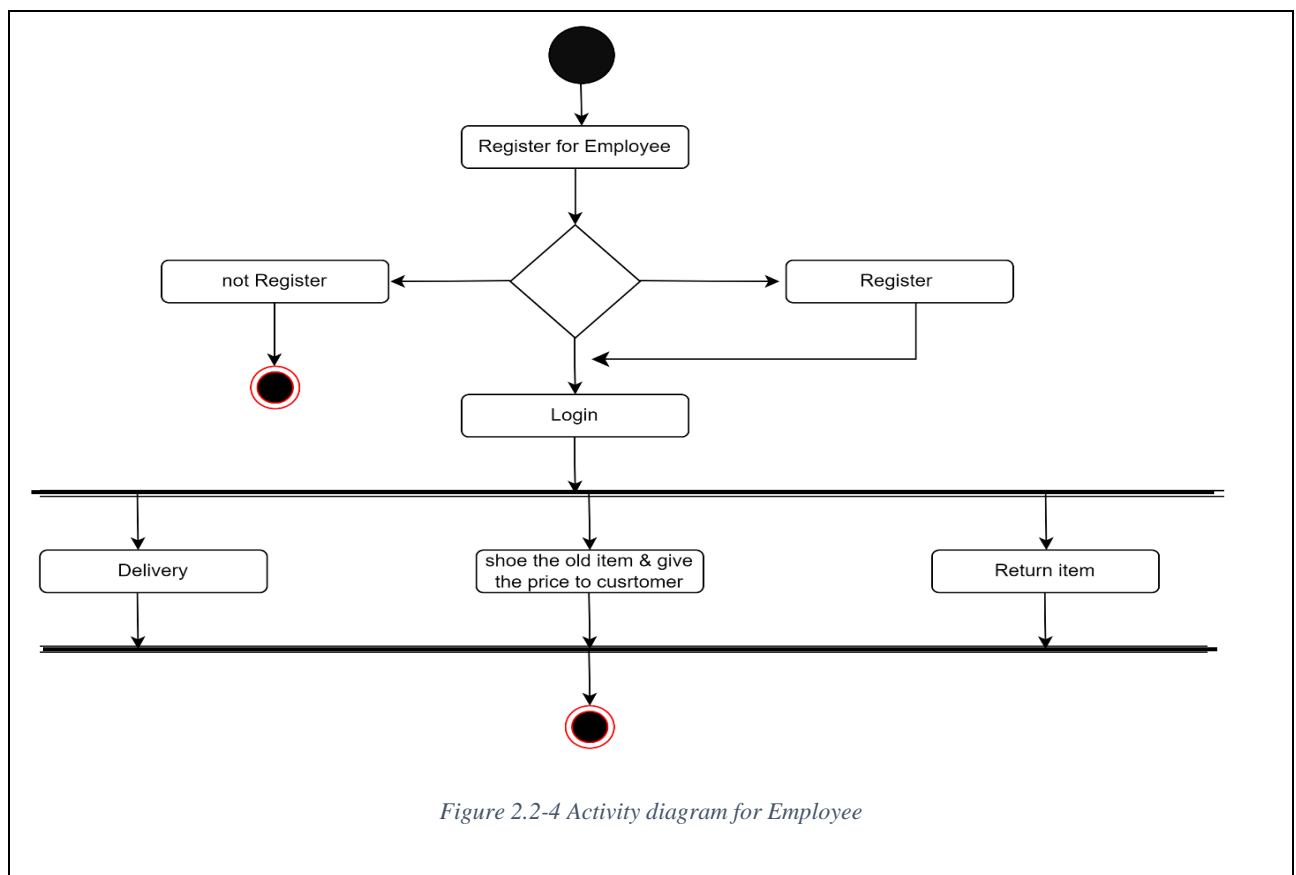
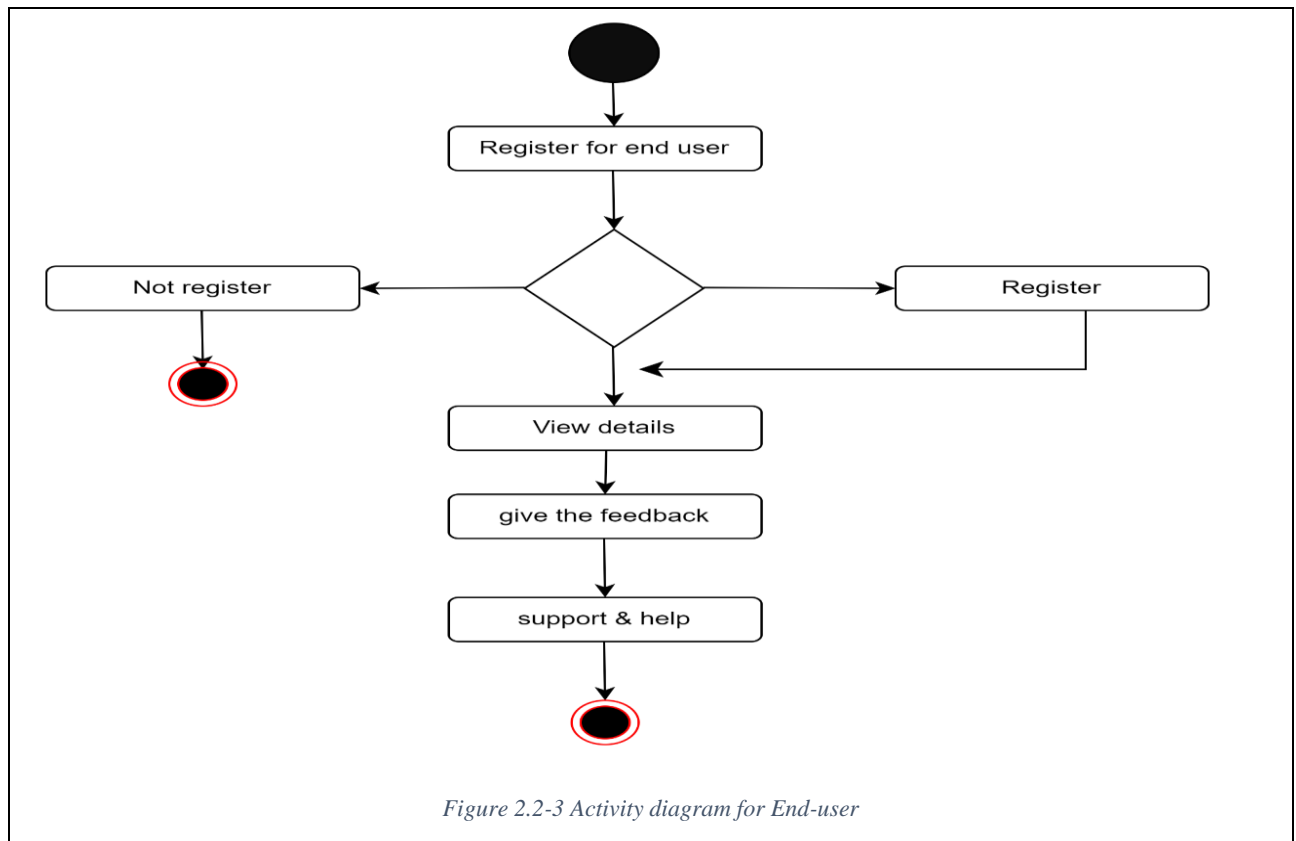
2 Design and Implementation Constraints

2.1 Use case diagram



2.2 Activity diagram and Swimlane diagram





Swimlane diagram

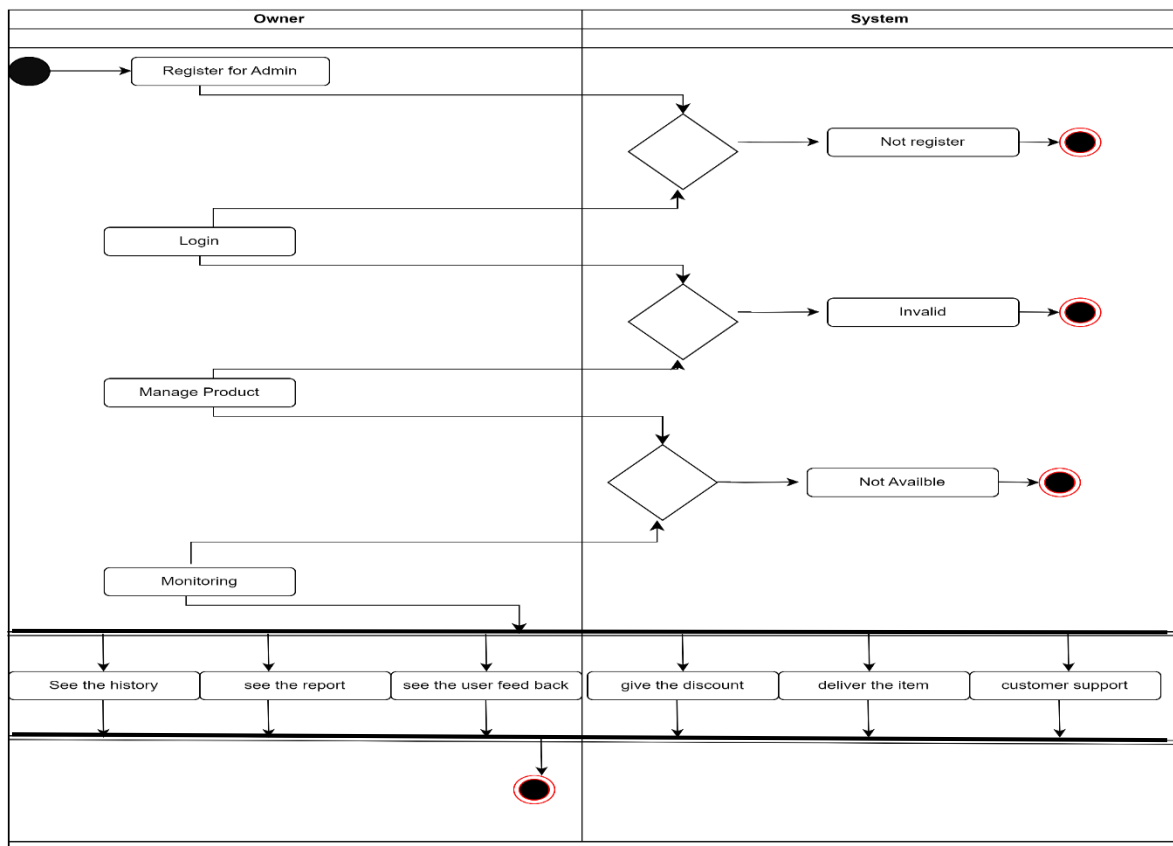


Figure 2.2-5 Swimlane diagram for Owner

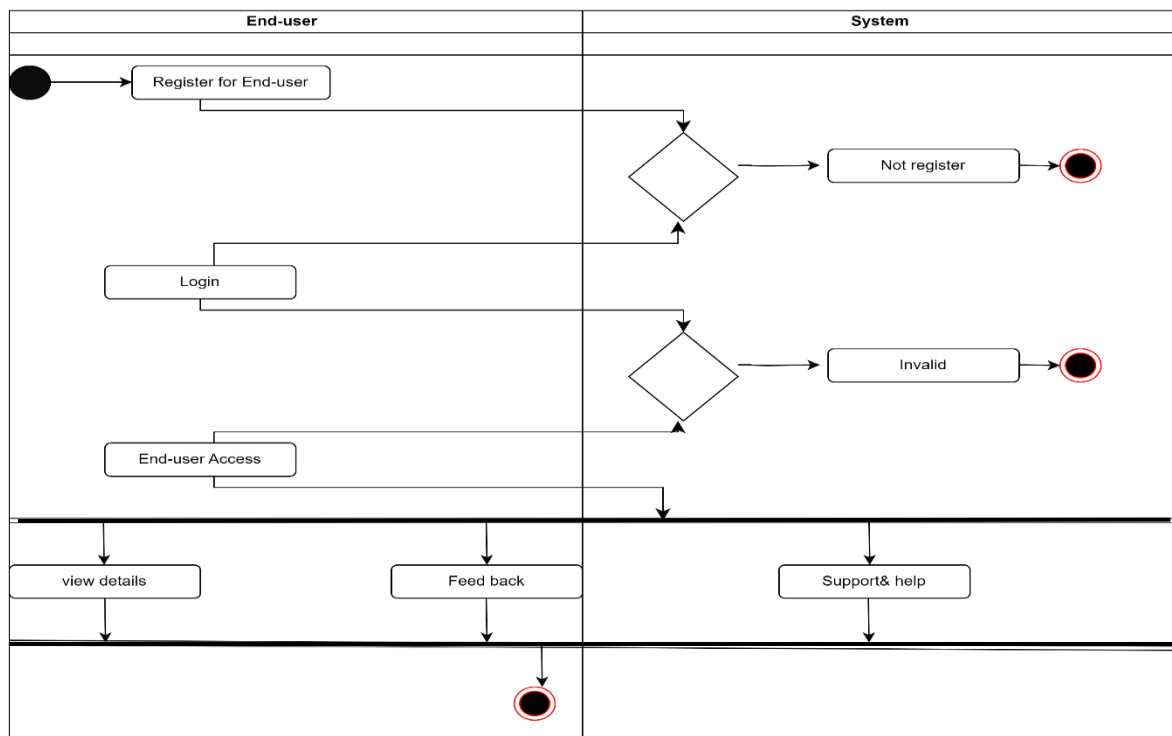


Figure 2.2-6 Swimlane diagram for End-user

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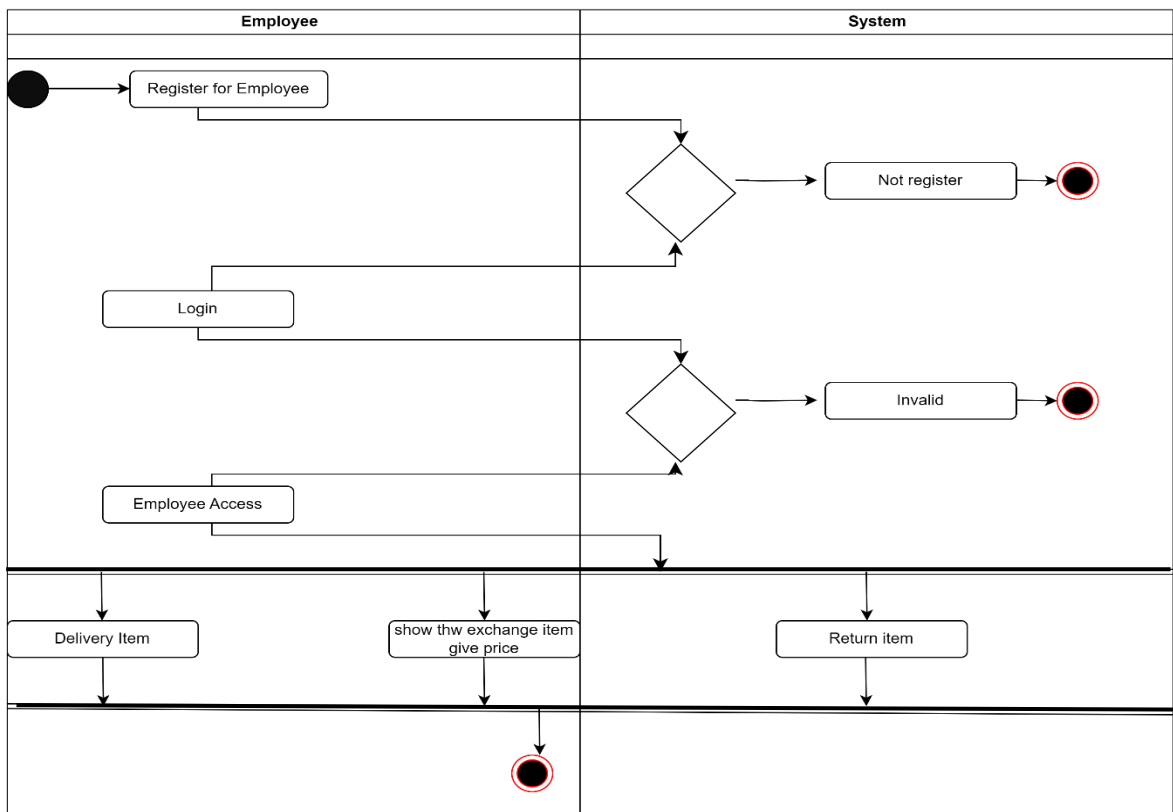


Figure 2.2-7 Swimlane diagram for Employee

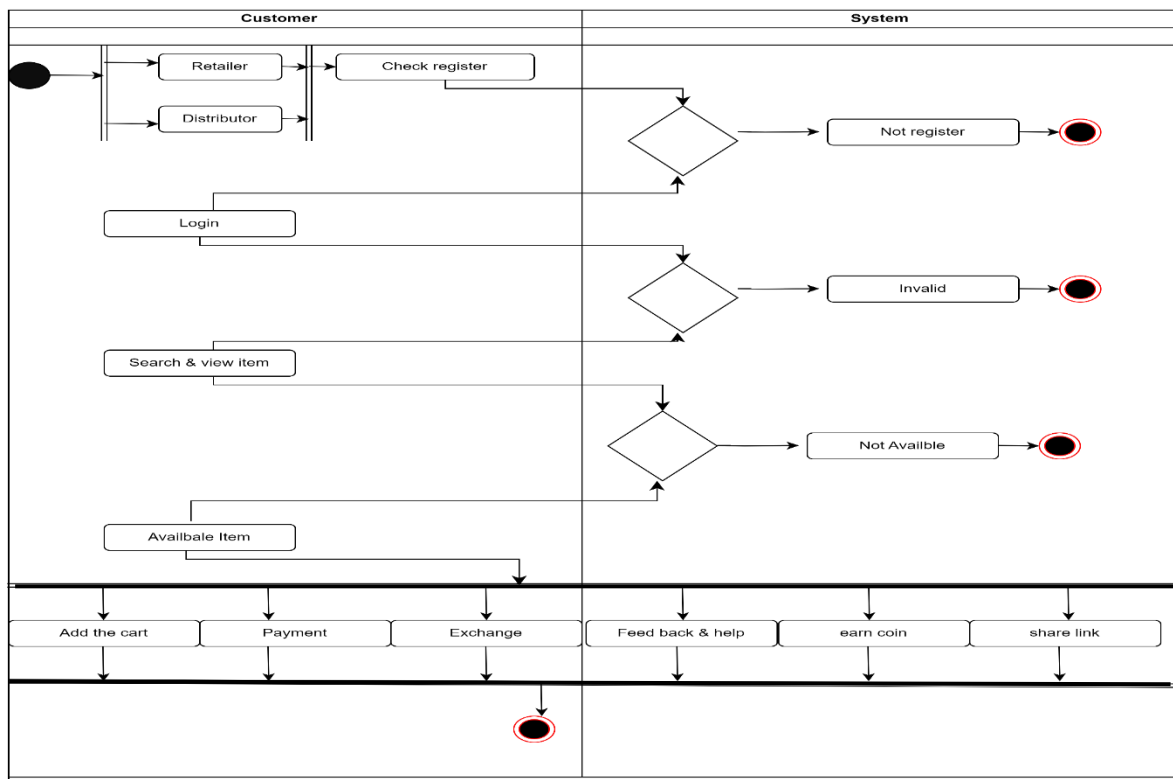


Figure 2.2-8 Swimlane diagram for Customer

2.3 Sequence diagram

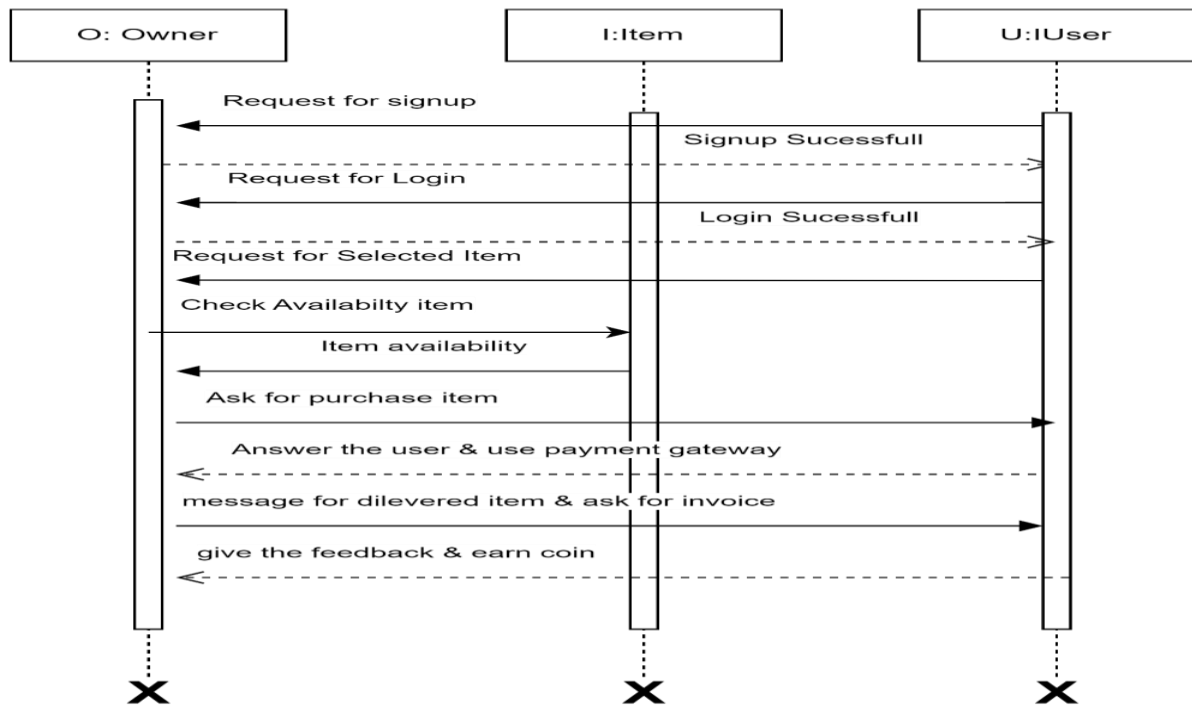


Figure 2.3-1 Sequence diagram for purchase item

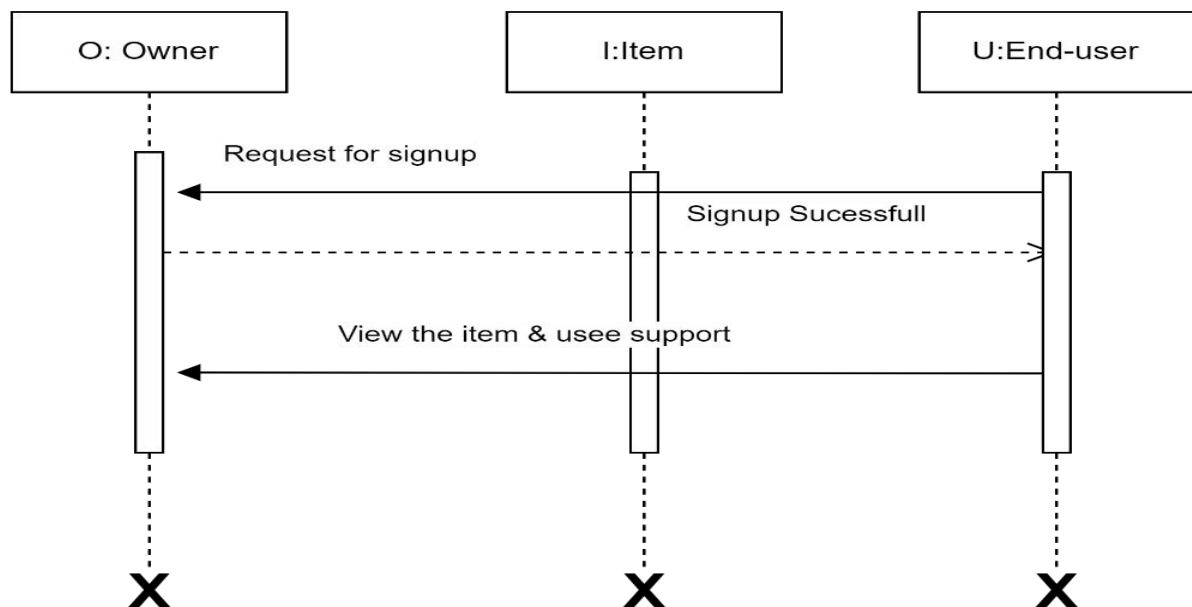


Figure 2.3-2 Sequence diagram for End-user

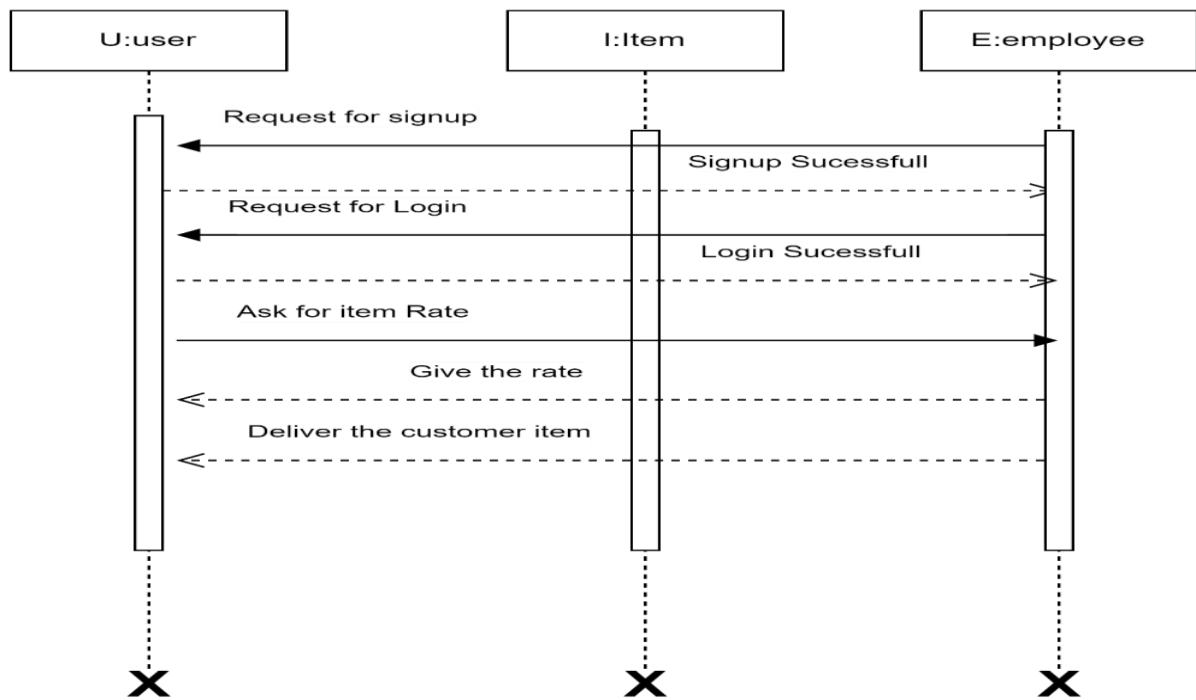
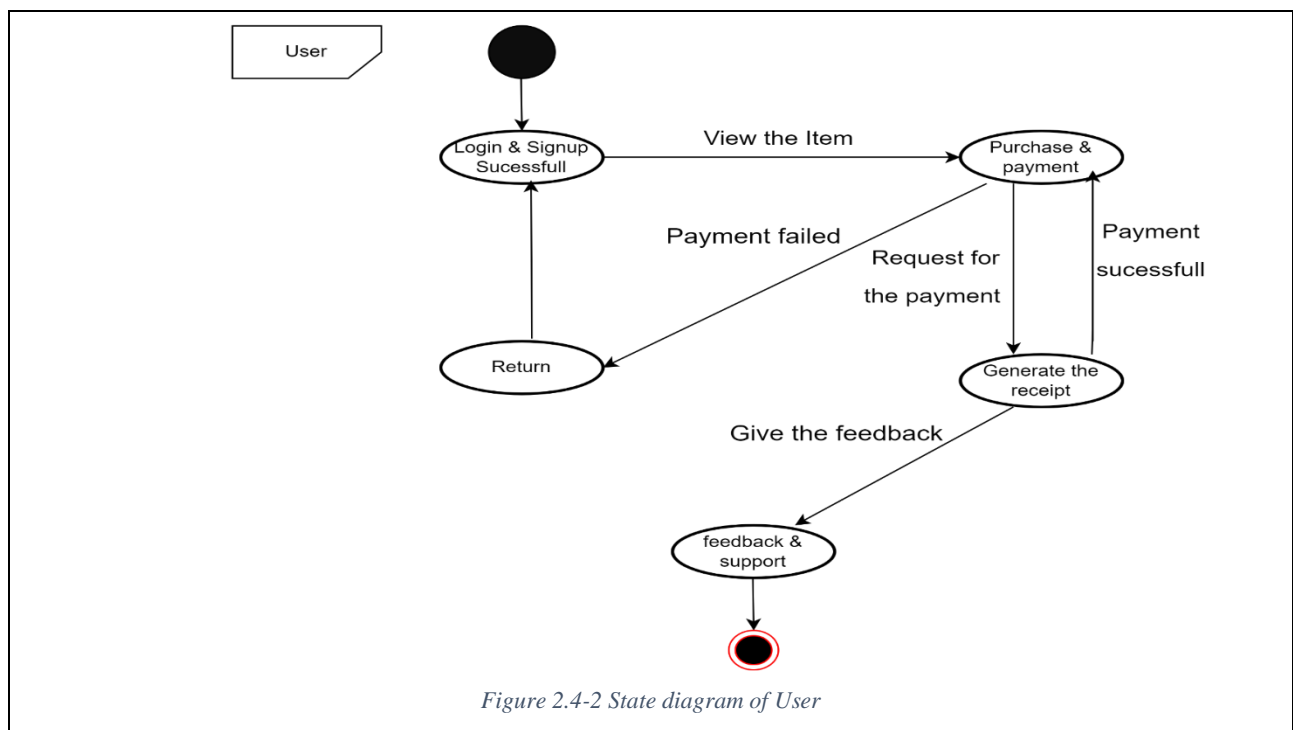
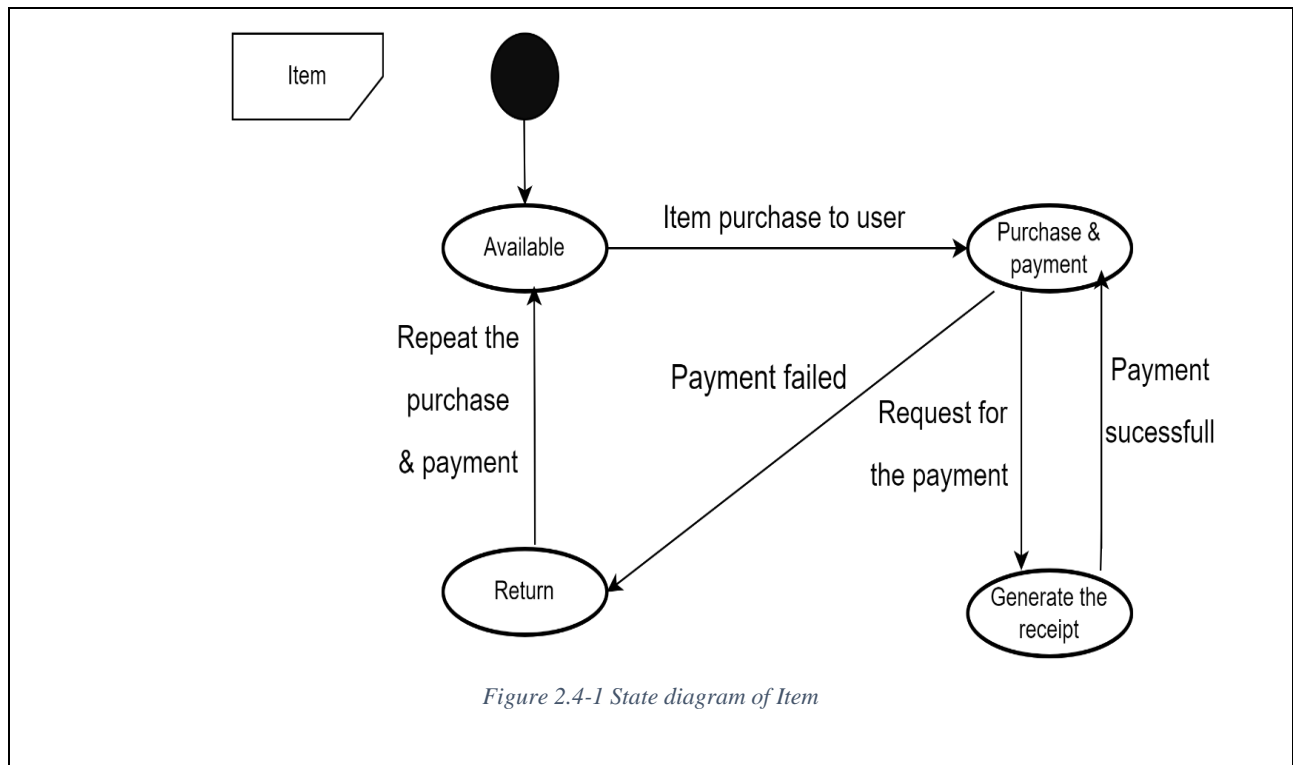
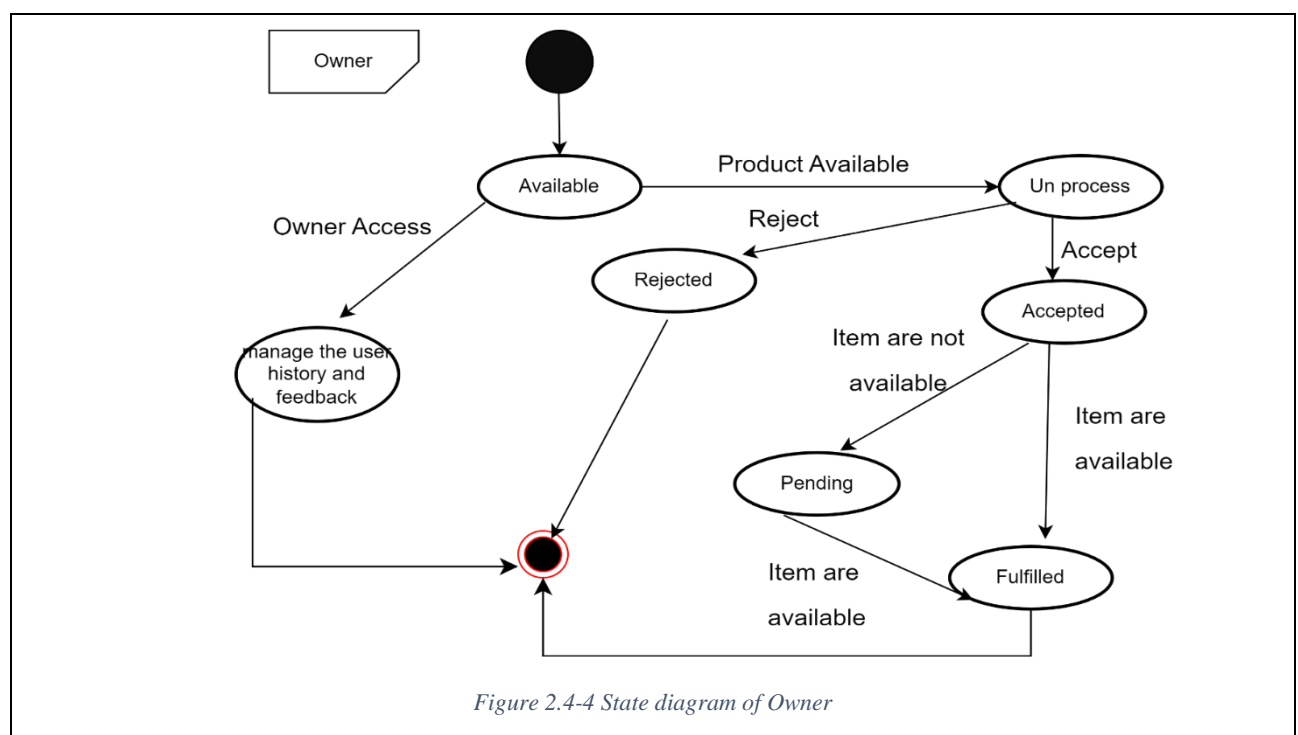
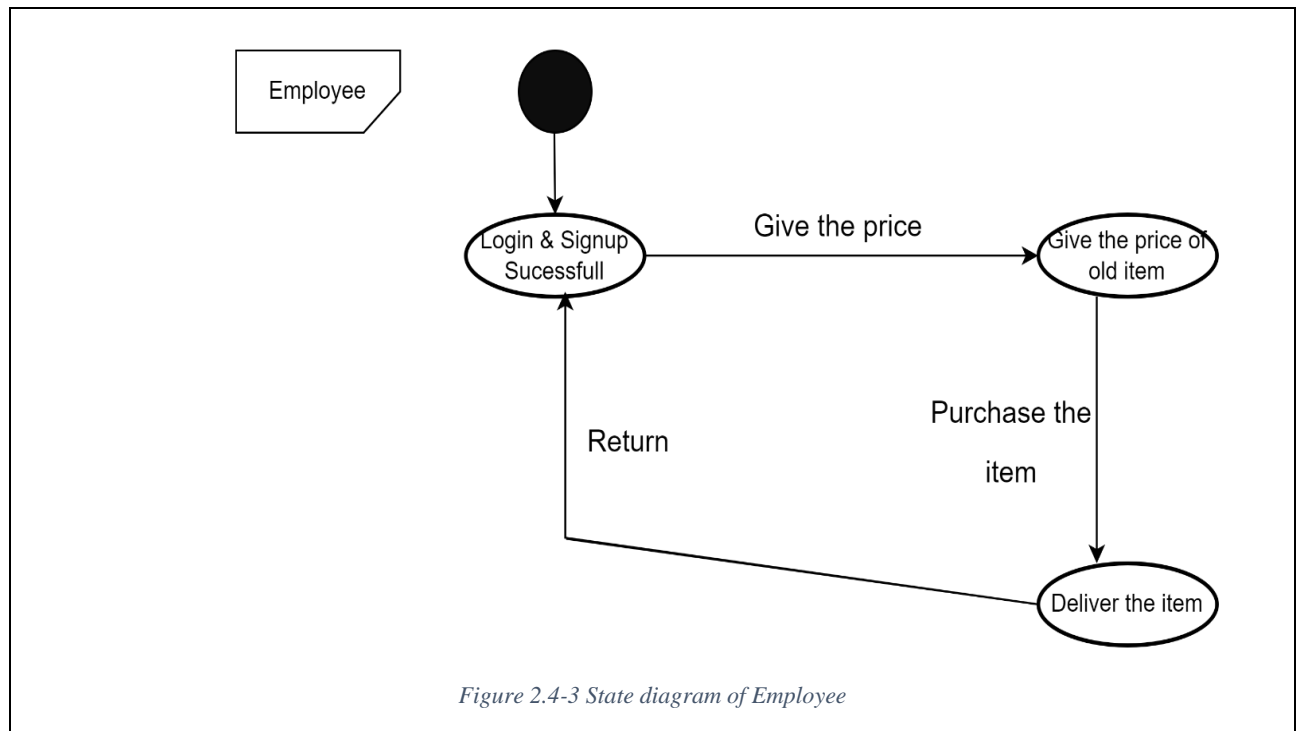


Figure 2.3-3 Sequence diagram for Employee

2.4 State diagram





2.5 Class diagram

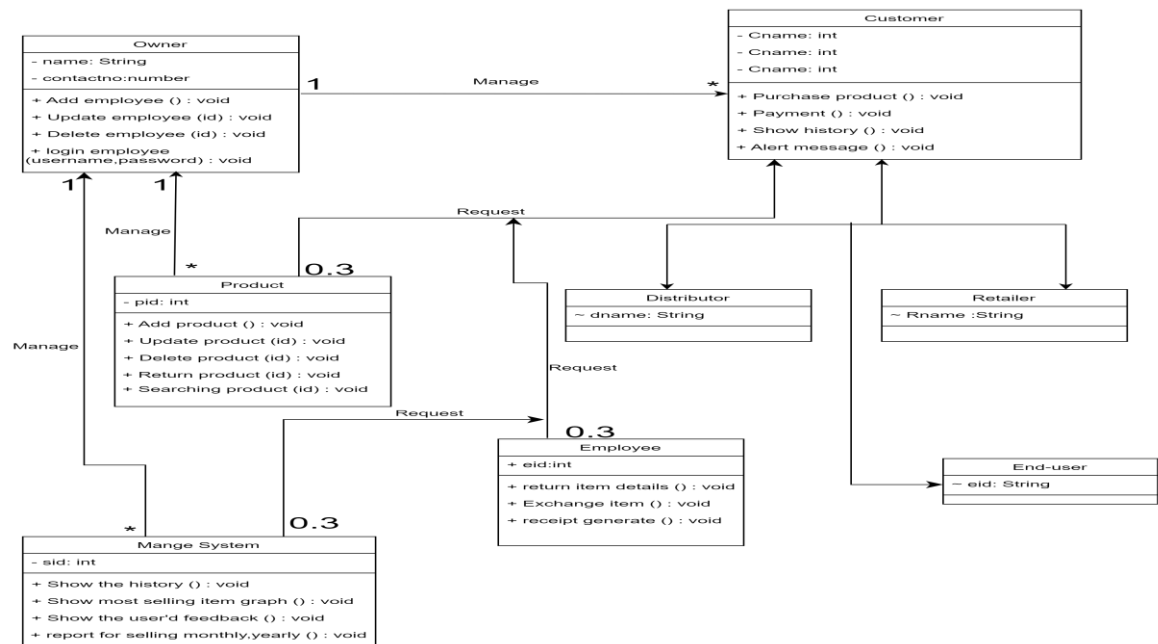


Figure 2.5-1 Class diagram for Home Appliance (Web) system

2.6 Data flow diagram

2.6.1 Context diagram (level-0)

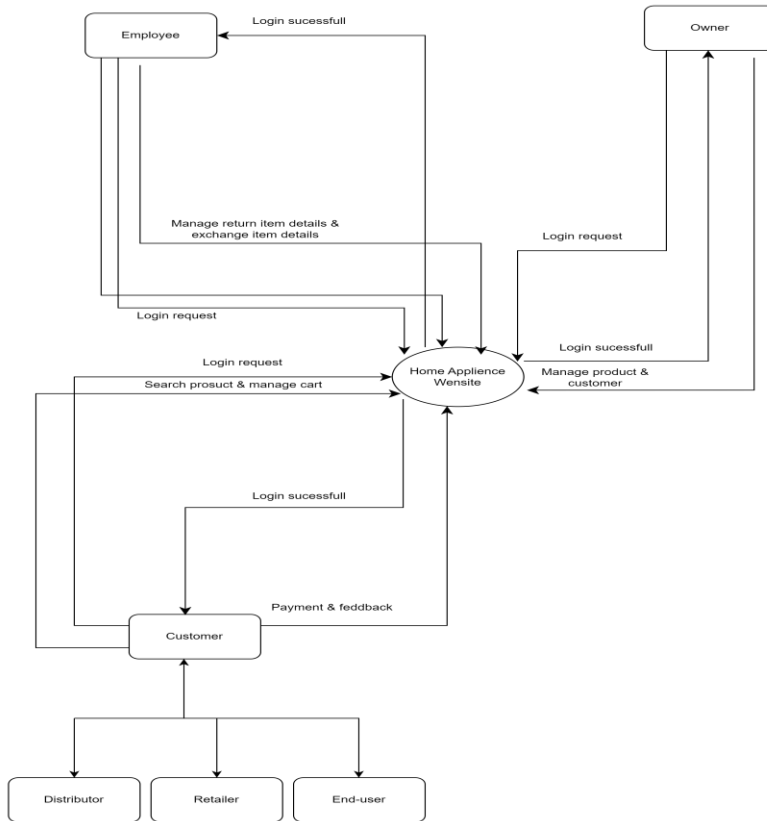


Figure 2.6-1 Context diagram for Home Appliance (Web) system

2.6.2 DFD Level-1

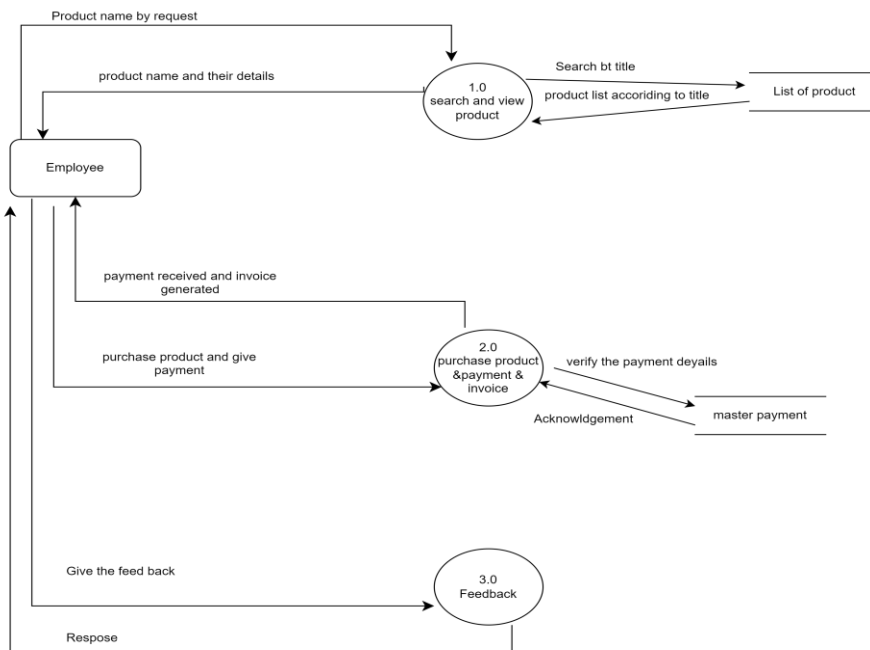
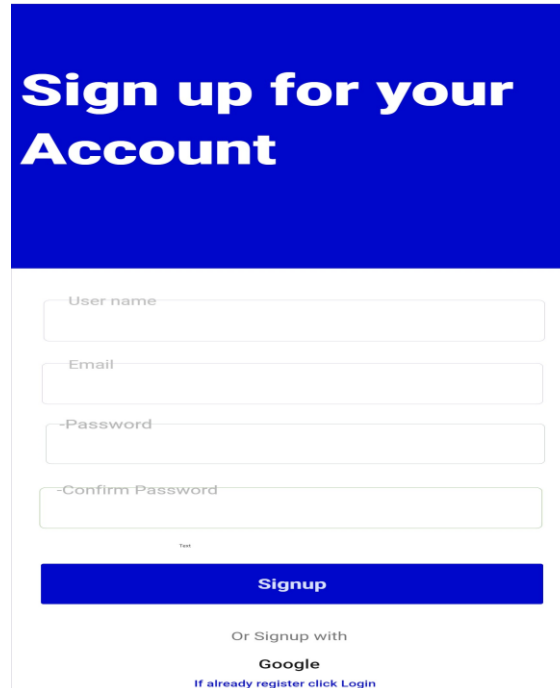


Figure 2.6-2 DFD level-1 for Home Appliance (Web) system

3 External interface requirement (Screens)

3.1 Screen-1: Registration Form



The screenshot shows a registration form titled "Sign up for your Account" in white text on a blue background. Below the title, there are four input fields: "User name", "Email", "Password", and "Confirm Password". Each field has a small "Text" label above it. Below the input fields is a blue "Signup" button. Under the button, there is a link "Or Signup with Google" and a link "If already register click Login".

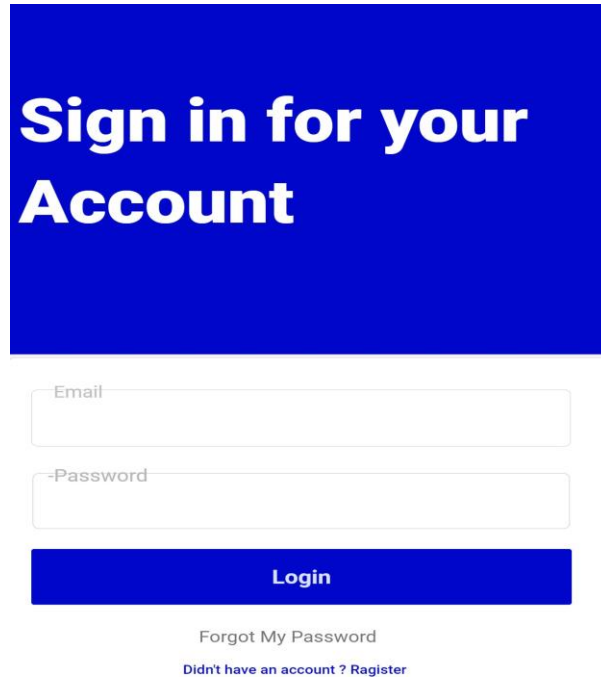
Figure 3.1-1 Screen-1: Registration Form

Purpose: This page is used to sign up into home appliance website. This page gives logo of google page of home appliance website.

Table 3.1-1 Screen element of Registration form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Username	Textbox	M	1	Username field should be editable and accept the Username.
2	Email	Textbox	M	1	Email field should be editable and accept the Email with proper format.
3	Password	Password	M	1	Password field should be editable and accept the password and display as star or dot.
4	Confirm password	Password	M	1	Confirm Password field should be editable and accept the password and display as star or dot.
5	Signup	Button	-----	-----	Register is a button for store the entered data into database.
6	Google logo	Button	-----	-----	Link to redirect the google page
7	If already register	Link	-----	-----	Link for navigate to login page for registered user.

3.2 Screen-2: Sign in Form



The sign-in form features a blue header with the text "Sign in for your Account" in white. Below the header are two input fields: "Email" and "Password". The "Password" field has a toggle icon to the right. A blue "Login" button is positioned below the input fields. At the bottom, there are two links: "Forgot My Password" and "Didn't have an account ? Register".

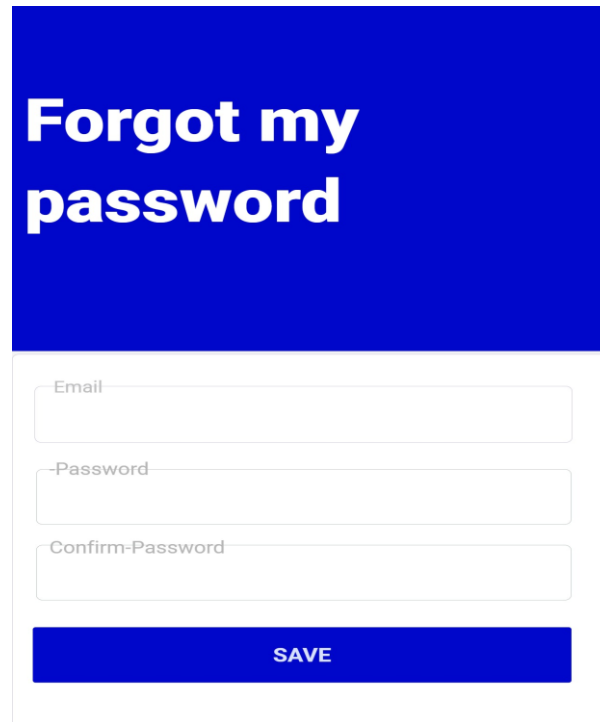
Figure 3.2-1 Screen-2: Sign in Form

Purpose: This form will be used by the system's users to access records and features of the system. The users will input the correct combination of their username and password to be able to login to the system.

Table 3.2-1 Screen element of Sign in form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Username	Textbox	M	1	Username field should be editable and accept the Username.
2	Password	Password	M	1	Password field should be editable and accept the password and display as star or dot.
3	forgot password	Link	-----	-----	Link for navigate to Forgot password page for allows users to recover password.
4	Register a new account	Link	-----	-----	Link for navigate to membership registration.
5	Login	Button	-----	-----	Login button navigates to another page even if valid login credentials.

3.3 Screen-3: Forgot Password



The screenshot shows a web interface for forgetting a password. It features a prominent blue header with the text "Forgot my password" in white. Below this header, there are three white input fields with light gray borders, labeled "Email", "Password", and "Confirm-Password". At the bottom of the form, there is a solid blue button with the word "SAVE" in white capital letters.

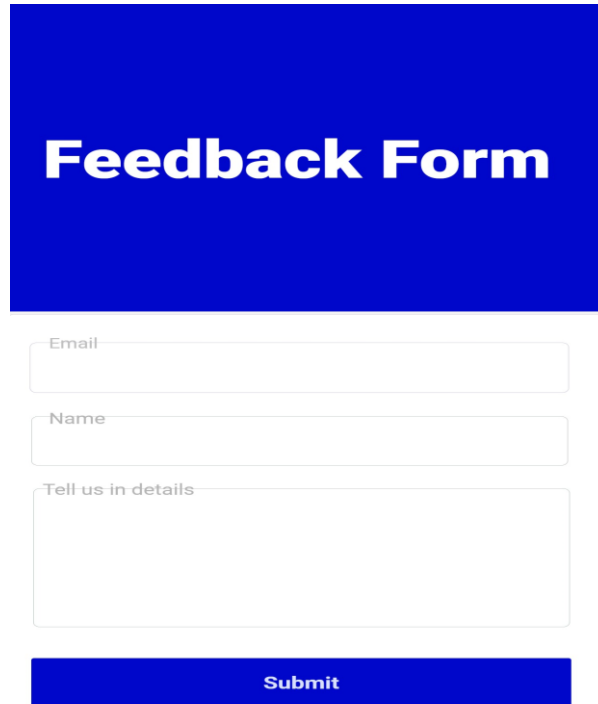
Figure 3.3-1 Screen-3: Forgot password

Purpose: This page is used to forgot password. Save button do the Save new password.

Table 3.3-1 Screen element of Forgot password

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Email	Textbox	M	1	Email field should be editable and accept the email with proper format.
2	Password	Password	M	1	Password field should be editable and accept the password and display as star or dot.
3	Confirm password	Password	M	1	Confirm Password field should be editable and accept the password and display as star or dot.
4	Save	Button	-----	-----	User can save the password by click button

3.4 Screen-4: Feedback form



The screenshot shows a web form titled "Feedback Form" on a blue background. Below the title, there are three input fields: "Email", "Name", and "Tell us in details". At the bottom of the form is a blue button labeled "Submit".

Figure 3.44-1 Screen-4: Feedback form

Purpose: This page is used to forgot password. Save button do the Save new password.

Table 3.4-1 Screen element of Feedback form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Email	Textbox	M	1	Email field should be editable and accept the Email with proper format.
2	Name	Textbox	M	1	Name field should be editable and accept only string as a borrower name.
3	Description field	Textbox	M	1	Description field should be editable and accept the Description.
4	Submit	Button	-----	-----	User submit the feedback to the website

3.5 Screen-5: Add Item form

Figure 3.55-1 Screen-5: Add Item form

Purpose: This page is used to owner add the product in website and show product to the customer

Table 3.5-1 Screen element of Add Item form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	PID	Textbox	M	1	Product ID field should be editable and fill autogenerated Product ID.
2	Product Name	Textbox	M	1	Product name field should be editable and accept the Product name.
3	Brand Name	Textbox	M	1	Brand name field should be editable and accept the Brand name.
4	Category	Textbox	M	1	Category field should be editable and accept the Category.
5	Total Price	Textbox	M	1	Total Price field should be editable and accept the Total Price.
6	Discount Price	Textbox	M	1	Discount Price field should be editable and accept the Discount Price.
7	Cost Price	Textbox	M	1	Cost Price field should be editable and accept the Cost Price.
8	Offer or Not	Textbox	M	1	Offer field should be editable and accept the Offer yes or no.
9	Product Description	Textbox	M	1	Product Description field should be editable and accept the Product Description.
10	Add Product	Button	-----	-----	Submit is a button for store the entered data into database.

3.6 Screen-6: Exchange Item form

The screenshot shows a web form titled "Exchange Item Form" with a blue header. The form contains the following elements:

- user name**: Text input field
- Product Name**: Text input field
- Brand Name**: Text input field
- how years old product**: Text input field
- It is working or not**: Text input field
- attach image**: Image picker field
- attach purchase bill**: Image picker field
- enter your price**: Text input field
- Product Description**: Large text area
- Submit**: Blue button

Figure 3.66-1 Screen-6: Exchange Item form

Purpose: This page is used to user add the old item details and submit to the website.

Table 3.6-1 Screen element of Exchange item form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Username	Textbox	M	1	Username field should be editable and accept the Username.
2	Product Name	Textbox	M	1	Product name field should be editable and accept the Product name.
3	Brand Name	Textbox	M	1	Brand name field should be editable and accept the Brand name.
4	Old year product	Textbox	M	1	Old year product field should be editable and accept the Old year product.
5	Working or not	Textbox	M	1	Working or not field should be editable and accept the Working or not.
6	Attach image	Imagepicker	M	N	Attach image picker should be editable and accept the Attach image picker.
7	Attach bill	Imagepicker	M	N	Attach bill picker should be editable and accept the Attach bill picker.
8	Your price	Textbox	M	1	Price field should be editable and accept the Price.
9	Description	Textbox	M	1	Description field should be editable and accept the Description.
10	Submit	Button	-----	-----	Submit is a button for store the entered data into database.

3.7 Screen-7: Return Item form

The screenshot shows a web form titled "Return Item Form" on a blue background. Below the title, there are six input fields arranged in two columns: "Email", "user name", "Product Name", "Brand Name", "Delivery date", and "price of product". Below these fields is a large text area labeled "Why are you return product". At the bottom of the form is a blue button labeled "Submit".

Figure 3.77 -1 Screen-7: Return Item form

Purpose: This page is used to user want to return the item that time this is used.

Table 3.7-1 Screen element of Return item form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Email	Textbox	M	1	Email field should be editable and accept the Email.
2	Username	Textbox	M	1	Username field should be editable and accept the Username.
3	Product Name	Textbox	M	1	Product name field should be editable and accept the Product name.
4	Brand Name	Textbox	M	1	Brand name field should be editable and accept the Brand name.
5	Delivery date	Date picker	M	1	Date picker should be editable and accept the Date picker.
6	Product price	Date picker	M	1	Product price field should be editable and accept the product price.
7	Description	Textbox	M	1	Description field should be editable and accept the Description.
8	Submit	Button	----	----	Submit is a button for store the entered data into database.

3.8 Screen-8: Purchase Item form

Purchase Item Form

Full name

Mo .no Email

Address to delivery

Submit

Figure 3.88-1 Screen-8: Purchase Item form

Purpose: This page is used to user want to purchase the item that time this is used.

Table 3.8-1 Screen element of Purchase item form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Full name	Textbox	M	1	Full name field should be editable and accept the Full name.
2	Contact	Textbox	M	1	Contact field should be editable and accept only 10-digit mobile number.
3	Email	Textbox	M	1	Email field should be editable and accept the Email.
4	Address	Textbox	M	1	Address field should be editable and accept the Address.
5	Submit	Button	-----	-----	Submit is a button for store the entered data into database.

3.9 Screen-9: Search Item form

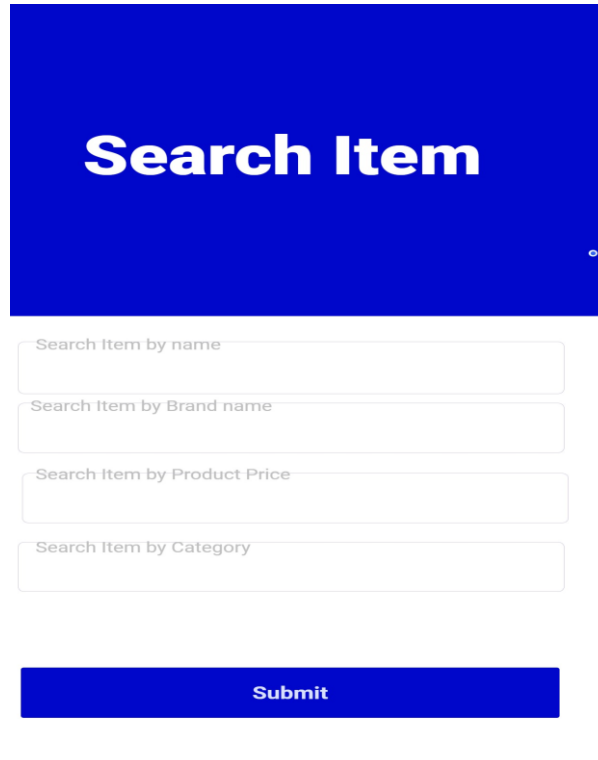


Figure 3.99-1 Screen-9: Search Item form

Purpose: This page is used to user want to search by Item name, Item brand, item price, item category.

Table 3.9-1 Screen element of Search item form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Search by Item Name	Textbox	M	1	Item name field should be editable and accept the Item name.
2	Search by Brand Name	Textbox	M	1	Brand name field should be editable and accept the Brand name.
3	Search by Item price	Textbox	M	1	Item price field should be editable and accept the Item price.
4	Search by Item category	Textbox	M	1	Item category field should be editable and accept the Item category.
5	Submit	Button	-----	-----	Submit is a button for store the entered data into database.

3.10 Screen-10: Customer List

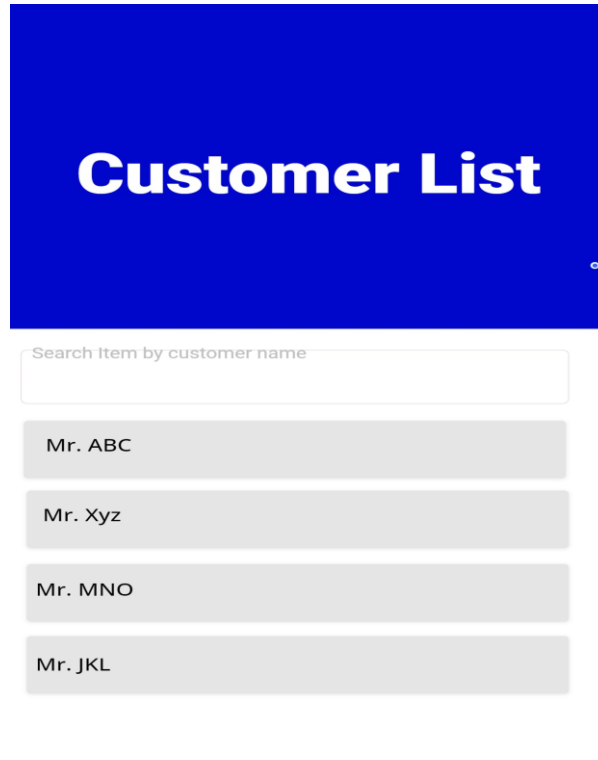


Figure 3.1010-1 Screen-10: Customer list

Purpose: This page is used to owner can see the all the customer details and selling item details.

Table 3.10 -1 Screen element of Customer list

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Customer details	Card (view)	M	N	View the customer details.

4 Database design

4.1 List of Tables

- Product
- Exchange Item
- Return Item
- Purchase Item
- Employee
- Customer
- Feedback

Table 4.1-1 Table: Product

Column	Data Type	Null	Keys & constrains	Default Value & Description
PID	int	NN	PK (Auto Increment)	
Product Name	varchar(100)	NN		
Brand Name	varchar(100)	AN		
Category	int	AN		
Total price	Double	AN		
Discount price	Double	AN		
Offer or not	Boolean	AN		
Discount in tax	Double	AN		
Cost Price	Double	AN		
Description	varchar(100)	AN		

Table 4.1-2 Table: Exchange Item

Column	Data Type	Null	Keys & Constrains	Default Value & Description
Exchange Item ID	int	NN	PK (Auto Increment)	
PID	varchar(100)	NN	FK	Reference of Product Table
Product Name	varchar(100)	AN		
Brand Name	varchar(100)	AN		
How old product	varchar(100)	AN		
Attach bill	varchar(100)	AN		
Attach image	varchar(100)	AN		
Enter price	Double	AN		
Description	varchar(100)	AN		

Table 4.1-3 Table: Return Item

Column	Data Type	Null	Keys & Constrains	Default Value & Description
Return Item ID	int	NN	PK (Auto Increment)	
PID	int	NN	FK	Reference of Product Table
Email	varchar(100)	AN		
User name	varchar(100)	AN		
Product name	varchar(100)	AN		

Brand Name	varchar(100)	AN		
Delivery date	Date time	AN		
Price of product	Double	AN		
Description	varchar(100)	AN		

Table 4.1-4 Table: purchase item

Column	Data Type	Null	Keys & Constrains	Default Value & Description
Purchase Item ID	int	NN	PK (Auto Increment)	
PID	int	AN	FK	Reference of Product Table
Full name	varchar(100)	AN		
Contact	number(10,0)	AN		
Email	varchar(100)	AN		
Address	varchar(100)	AN		

Table 4.1-5 Table: Employee

Column	Data Type	Null	Keys & Constrains	Default Value & Description
Emp ID	int	NN	PK (Auto Increment)	
Emp Name	varchar(100)	AN		
Username	varchar(100)	AN		
Password	Password	AN		

Table 4.1-6 Table: Customer

Column	Data Type	Null	Keys & Constrains	Default Value & Description
Customer ID	int	NN	PK (Auto Increment)	
Cust Name	varchar(100)	AN		
Customer type	varchar(100)	AN		
Gender	varchar(100)	AN		
Email	varchar(100)	AN		
Contact	number(10,0)	AN		
Password	password	AN		

Table 4.1-7 Table: Feedback

Column	Data Type	Null	Keys & Constrains	Default Value & Description
Email	varchar(100)	AN		
Name	varchar(100)	AN		
Description	varchar(100)	AN		

5 Stories and Scenario

5.1 Story-1: Add Product Details

Story # S1	: As a Owner, I want to Add Product So that a secure Added product details for a particular product.
Priority	: High
Estimate	: XXL
Reason	: The development of a Product Adding page is complex task because it involve calculation of amount based on Product type, Brand name and different Brand as a different product price and different product discount in the Home Appliances (Web) System.

5.1.1 Scenario# S1.1

Scenario# S1.1	: Owner Add product details based on the correct product name, product type, brand name, product discount, product price, product description.
Prerequisite	: Webpage of Add product details should be launched properly
Acceptance Criteria	: Given: Owner navigate to the Add product details page. When: Owner Add product details based on the correct product name, product type, brand name, product discount, product price, product description. Then Owner will be navigated to the Home page Display Product detail Display Product price. Display Product discount. Display product description. Display product brand name. Display product type.

5.1.2 Scenario# S1.2

Scenario# S1.2	: Owner Add product details based on the incorrect product name, product type, brand name, product discount, product price, product description.
Prerequisite	: Webpage of Add product details should be launched properly
Acceptance Criteria	: Given: Owner navigate to the Add product details page. When: <ul style="list-style-type: none"> Owner enter the incorrect discount value(negative or more than 100%) Owner enter the incorrect product price value(negative or zero) Then show popup message for the wrong discount value . show popup message for the wrong product price.

5.1.3 Scenario# S1.3

Scenario# S1.3	: Owner Add product details based on the without product name, product type, brand name, product discount, product price, product description.
Prerequisite	: Webpage of Add product details should be launched properly
Acceptance Criteria	Given: Owner navigate to the Add product details page. When: User Click “Add product” button. Then : show error message for “Enter product name”. And show error message for “Enter product type”. And show error message for “Enter brand name”. And show error message for “Enter product discount”. And show error message for “Enter product price”.

5.2 Story-2: Add Purchase Product Details

Story # S2	: As a Customer, I want to Add Purchase Product Details So that a secure Add purchase product details for a particular customer.
Priority	: High
Estimate	: XXL
Reason	: The development of a Add purchase Product details page is Moderate task because it involve calculation of amount based on Contact details, Full name and Address to the Customer in the Home Appliances (Web) System.

5.2.1 Scenario# S2.1

Scenario# S2.1	: Customer Add purchase product details based on the correct Full name email, Mo.no, address.
Prerequisite	: Webpage of Add purchase product details should be launched properly
Acceptance Criteria	Given: Customer navigate to the Add purchase product details page. When: Customer Add purchase product details based on the correct Full name email, Mo.no, address. Then Customer will be navigated to the payment page Display Enter the debit card details. Display Enter the credit card details. Display Net banking payment facility. Display UPI payment facility.

5.2.2 Scenario# S2.2

Scenario# S2.2	: Customer Add purchase product details based on the incorrect Full name email, Mo.no, address.
Prerequisite	: Webpage of Add purchase product details should be launched properly
Acceptance Criteria	Given: Customer navigate to the Add purchase product details page. When: <ul style="list-style-type: none"> ○ Customer enter the incorrect Mo.no value(+91 exclude more than 10) digits ○ Customer enter the incorrect address value(more than 50 words).

	Then show popup message for the wrong Mo.no. show popup message for the wrong Address.
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5.2.3 Scenario# S2.3

Scenario# S2.3	: Customer Add purchase product details based on the without Full name email, Mo.no, address.
Prerequisite	: Webpage of Add purchase product details should be launched properly
Acceptance Criteria	Given: Customer navigate to the Add purchase product details page. When: User Click “Submit” button. Then : show error message for “Enter Full name”. And show error message for “Enter email”. And show error message for “Enter mo.no”. And show error message for “Enter address”.

5.3 Story-3: Add Return Products Details

Story # S3	: As a Customer, I want to Return Product details So that a secure add return particular product details for particular product.
Priority	: High
Estimate	: XL
Reason	: The development of a Product Return page is Moderate task because it involve calculation of amount based on Contact details, Full name, product name, Product type, Brand name, delivery date, description of the product in the Home Appliances (Web) System.

5.3.1 Scenario# S3.1

Scenario# S3.1	: Customer Add return product details based on the correct email, customer full name, product name, brand name, delivery date, product price, product description (why are you return product).
Prerequisite	: Webpage of Add return product details should be launched properly
Acceptance Criteria	Given: Customer navigate to the Add return product details page. When: Customer Add return product details based on the correct email, customer full name, product name, brand name, delivery date, product price, product description (why are you return product). Then Customer will be navigated to the Home page Other Product Display Product detail Display Product price. Display Product discount. Display product description. Display product brand name. Display product type.

5.3.2 Scenario# S3.2

Scenario# S3.2	: Customer Add return product details based on the Incorrect email, customer full name, product name, brand name, delivery date, product price, product description (why are you return product).
Prerequisite	: Webpage of Add return product details should be launched properly
Acceptance Criteria	Given: Customer navigate to the Add return product details page. When: <ul style="list-style-type: none"> ○ User selects past delivery date, ○ Owner enter the incorrect product price value(negative or zero) Then show popup message for the wrong delivery date. show popup message for the wrong product price.

5.3.3 Scenario# S3.3

Scenario# S3.3	: Customer Add return product details based on the Without email, customer full name, product name, brand name, delivery date, product price, product description (why are you return product).
Prerequisite	: Webpage of Add return product details should be launched properly
Acceptance Criteria	Given: customer navigate to the Add return product details page. When: User Click “Submit” button. Then : show error message for “Enter customer name”. And show error message for “Enter product type”. And show error message for “Enter brand name”. And show error message for “Enter delivery date”. And show error message for “Enter product price”. And show error message for “Enter product description”.

5.4 Story-4: Modified Product Details

Story # S4	: As a Owner, I want to Modified Product So that a secure Modified product details for a particular product.
Priority	: High
Estimate	: XXL
Reason	: The development of a Product Modified page is complex task because it involve calculation of amount based on Product type, Brand name and different Brand as a different product price and different product discount in the Home Appliances (Web) System.

5.5 Story-5: Delete Product Details

Story # S5	: As a Owner, I want to Delete Product So that a secure Delete product details for a particular product.
Priority	: High
Estimate	: XL
Reason	: The development of a Product Delete page is complex task because it involve calculation of amount based on Product type, Brand name and different Brand as a different product price and different product discount in the Home Appliances (Web) System.

5.6 Story-6: Purchase Products

Story # S6	: As a Customer, I want to Purchase Product So that a purchase particular product.
Priority	: High
Estimate	: XXL
Reason	: The development of a Product Purchase page is complex task because it involve calculation of amount based on Product type, Brand name and different Brand as a different product price and different product discount and category wise different product list in the Home Appliances (Web) System.

5.7 Story-7: Add Exchange Old Product Details

Story # S7	: As a Customer, I want to Add Exchange Product Details So that a secure Add exchange product details for a particular product.
Priority	: High
Estimate	: XL
Reason	: The development of a Add exchange Product details page is Moderate task because it involve calculation of amount based on Contact details, Full name and Address, add images of the old product in the Home Appliances (Web) System.

5.8 Story-8: Search Customer

Story # S8	: As a Owner, I want to Search Customer So that a search particular customer.
Priority	: Medium
Estimate	: XL
Reason	: The development of a Search Customer page is complex task because it involve calculation of amount based on enter the customer details like as customer name, product purchased name, brand name and give the list of customer in the Home Appliances (Web) System.

5.9 Story-9: Search Product

Story # 59	:	As a Owner, Customer, I want to Search Product So that a secure Search product details for a particular product.
Priority	:	High
Estimate	:	XXL
Reason	:	The development of a Search product page is complex task because it involve calculation of amount based on Select item by brand name wise, category wise, product name wise, product price wise and give the list of product in the Home Appliances (Web) System.

5.10 Story-10: Add Payment Details

Story # 510	:	As a Customer, I want to Add Product details So that a secure add payment details for particular customer.
Priority	:	High
Estimate	:	XXL
Reason	:	The development of a Payment page is Complex task because it involve calculation of amount based on Payment details like as debit card, credit card, net banking and provide the token generator facility to customer in the Home Appliances (Web) System.

6 Test cases

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
		Test Execution date:	28-08-2023

Pre-condition: Owner Login is Required

Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_001	Add product in product form With Validate Entry	Functional	Add product with proper validate entry.	TC_001
TC_002	Add product in product form With Invalidate Entry	Functional	Add product with proper Invalidate entry.	TC_002
TC_003	Verify all given input textbox of add product form	Functional	Verify All Input Text in Textbox Work Properly.	TC_003

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_001	Test Execution date:	28-08-2023

Test Case Title	Add product in product form With Validate Entry
Test Type	Functional
Test Priority	High
Pre-condition	Owner Login is Required

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Access the owner login id and password	Validate the username and password	Validate the username and password	Pass		username: Owner pass: Owner@7890	
2	Enter valid Product id in productid field	Product id field should be editable and accept the product id	product id input accepted	Pass		For Example: Product id: brand name, product name, and id exa:Cocpepsi01	
3	Enter valid Product name in Product name field	Product name field should be editable and accept the Product name.	Product name input accepted	pass		product name: Xyzshop	

4	Enter valid Brand name in Brand name field	Brand name field should be editable and accept the Brand name.	Brand name input accepted	Pass		Brand name: Xyzbrand	
5	Enter valid Cost price in Cost price field	Cost price field should be editable and accept the Cost price.	Cost price input accepted	Pass		Cost price :120Rs.	
6	Enter valid discount price in discount price field	discount price field should be editable and accept the discount price.	discount price input accepted	Pass		discount price:20Rs.	
7	Enter valid sell price in sell price field	sell price field should be editable and accept the sell price.	sell price input accepted	pass		sell price:160Rs.	
8	Enter valid Product description in Product description field	Product description field should be editable and accept the Product description.	Product description input accepted	Pass		product description: product are very best Quality compare to other	
9	Click on Add product button	Owner should navigated to product details page.	Owner should navigated to product details page and Product details should be display in to the product list.				

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_002	Test Execution date:	28-08-2023

Test Case Title	Add product in product form With Invalidate Entry
Test Type	Functional
Test Priority	Medium
Pre-condition	Owner Login is Required

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Verify that product id is not able to Add which is already exists.	Should be display an error message product id already exists.	display an error message product id already exists.	Pass			
2	Verify that product name & brand name is same are not able to Add which is already exists.	Should be display an error message product name& brand name same are already exists.	display an error message product name& brand name same are already exists.	Pass			
3	Verify that product details is not able to Add with blank any input field	Set required field validation message for field is required	Set required field validation message for field is required	pass			

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_003	Test Execution date:	28-08-2023

Test Case Title	Verify all given input textbox of add product form
Test Type	Functional
Test Priority	High
Pre-condition	Owner Login is Required

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Verify that the Add product screen contains elements such as product id, product name, brand name, sell price, Cost price, discount price, product details , Add button.	All listed control displayed properly on the page	Add product page viewed successfully	Pass			
2	Verify that all the fields such as product id, product name, brand name, sell price, Cost price, discount price, product details ,has a valid placeholder	All text fields have proper placeholder	All text fields have proper placeholder	Pass			

3	Verify that tab functionality is working properly or not	When tab pressed cursor move in next control	Cursor focus in Username textbox	Pass			
4	verify the sell price, cost price, discount price negative value or not.	Should be display an error message price are negative .	Should be display an error message price are negative.	Pass		Invalid format like negative value -50	
5	verify the sell price is less than cost price or not. if sell price is higher than cost price than error message should be displayed.	Should be display an error message sell price are higher than cost price.	display an error message sell price are higher than cost price.	Pass		Invalid format like cost price 500 sell price 400	
6	verify the sell price is less than discount price or not. if sell price is higher than discount price than error message should be displayed.	Should be display an error message sell price are higher than discount price.	display an error message sell price are higher than discount price.	Pass	Invalid format like sell price 400 discount price 500		
7	verify the discount is out of range or not. If discount is out of range than message should be displayed.	Should be display an error message discount is out of range	display an error message discount is out of range	Pass		Invalid format like discount is 101%	

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Return product form by client	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
		Test Execution date:	30-08-2023

Pre-condition: Client login is required and product should be purchased

Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_004	Add the return product details with validate Entry	Functional	Add return product with proper validate entry.	TC_004
TC_005	Add the return product details with Invalidate Entry	Functional	Add return product with proper Invalidate entry.	TC_005
TC_006	Verify all given input textbox of return product form	Functional	verify All Input Text in Text Box Work Properly and check client did purchase the product or not.	TC_006

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_004	Test Execution date:	28-08-2023

Test Case Title	Add the return product details with validate Entry
Test Type	Functional
Test Priority	High
Pre-condition	Client login is required and product should be purchased

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Access the client login id and password	Validate the client username and password	Validate the client username and password	Pass		username: Client pass:Client@7890	
2	Enter valid email id in email field	email id field should be editable and accept the email id	email id input accepted	Pass		for example email id: abc@gmail.com	
3	Enter valid name in client name field	client name field should be editable and accept the client name	client name input accepted	pass		For Example: client name: abc	

4	Enter valid Product name in Product name field	Product name field should be editable and accept the Product name.	Product name input accepted	pass		product name: Xyzshop	
5	Enter valid Brand name in Brand name field	Brand name field should be editable and accept the Brand name.	Brand name input accepted	pass		Brand name: Xyzbrand	
6	select the valid delivery date	delivery date picker should be editable and accept the delivery date	delivery date input accepted	pass		date:20-02-2000 format	
7	Enter valid product price in discount price field	product price field should be editable and accept the discount price.	product price input accepted	pass		product price:2000Rs.	
8	Enter valid description in description field	description field should be editable and accept the description.	description input accepted	pass		description: in description field why are you return the product.	
9	Click on submit button	client should navigated to home page.	client should navigated to home page and seen the other product.	pass			

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_005	Test Execution date:	28-08-2023

Test Case Title	Add the return product details with Invalidate Entry
Test Type	Functional
Test Priority	Medium
Pre-condition	Client login is required and product should be purchased

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Verify that product name is not able to submit when product are not sell in the website	Should be display an error message this product name are incorrect.	display an error message this product name are incorrect.	Pass			
2	Verify that brand name is not able to submit when brand are not sell in the website	Should be display an error message this brand name are incorrect.	display an error message this brand name are incorrect.	Pass			
3	Verify that delivery date is not able to submit when delivery date is greater than seven day of delivery date	Should be display an error message this delivery date is expired	display an error message this delivery date is expired	Pass			
4	Verify that product price is not able to submit when product price is negative	Should be display an error message this product price is Invalid.	Should be display an error message this product price is Invalid.	Pass			
5	Verify that product details is not able to submit with blank any input field	Set required field validation message for field is required	Set required field validation message for field is required	pass			

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_006	Test Execution date:	28-08-2023

Test Case Title	Verify all given input textbox of return product form
Test Type	Functional
Test Priority	High
Pre-condition	Client login is required and product should be purchased

Test Step	Test Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Verify that the Add product screen contains elements such as Email id, username, product name, brand name, delivery date, product price, description of product, submit button	All listed control displayed properly on the page	Add home page viewed successfully	Pass			
2	Verify that the Add product screen contains elements such as Email id, username, product name, brand name, delivery date, product price, description of product, has a valid placeholder	All text fields have proper placeholder	All text fields have proper placeholder	Pass			
3	Verify that tab functionality is working properly or not	When tab pressed cursor move in next control	Cursor moving in next control	Pass			

4	verify the email id it has should be proper format.	Should be display an error message email id is incorrect format.	display an error message email id is incorrect format.	Pass		Invalid format like abcgmail.com	
5	verify the delivery date it has should be proper format.	Should be display an error message delivery date is incorrect format.	display an error message delivery date is incorrect format.	Pass		Invalid format like 262023	
6	verify the sell price, cost price, discount price negative value or not.	Should be display an error message price are negative	Should be display an error message price are negative.	Pass	Invalid format like negative value -50		

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	purchase product & client details form by client	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
		Test Execution date:	01-09-2023

Pre-condition: Client login is required and product should be selected

Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_007	Add the purchase product & client details with validate Entry	Functional	Add client details & product details with proper validate entry.	TC_007
TC_008	Add the purchase product & client details with Invalidate Entry	Functional	Add client details & product details with proper Invalidate entry.	TC_008
TC_009	Verify all given input textbox of client & purchase product form	Functional	Verify All Input Text in Text Box Work Properly and check product are in stock or not	TC_009

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_007	Test Execution date:	28-08-2023

Test Case Title	Add the purchase product & client details with validate Entry
Test Type	Functional
Test Priority	High
Pre-condition	Client login is required and product should be selected

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Access the client login id and password	Validate the client username and password	Validate the client username and password	Pass		username: Client pass:Client@7890	
2	Enter valid in client Full name in client Full name field	client Full name field should be editable and accept the client Full name	client Full name input accepted	Pass		For Example: client Full name: abcxyzmno	
3	Enter valid email id in email field	email id field should be editable and accept the email id	email id input accepted	pass		for example email id:abc@gmail.com	

4	Enter valid client Mo.no in client Mo.no field	client Mo.no field should be editable and accept the client Mo.no	client Mo.no input accepted	pass		For Example: client Mo.no: +914236517907	
5	Enter valid address to delivery in address to delivery field and address should be required at least 30 words.	address to delivery field should be editable and the address to delivery.	address to delivery input accepted	pass		address to delivery: flat no/ house name near landmark street name and no city .	
6	Click on submit button	client should navigated to payment page.	client should navigated to payment page.	pass			

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_008	Test Execution date:	28-08-2023

Test Case Title	Add the purchase product & client details with Invalidate Entry
Test Type	Functional
Test Priority	Medium
Pre-condition	Client login is required and product should be selected

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Verify that client MO.no is not able to submit when Client mo.no is Invalid format	Should be display an error message this Client mo.no are incorrect.	display an error message this Client Mo.no is incorrect.	Pass			
2	Verify that email id is not able to submit when email id is invalid format	Should be display an error message this brand name are incorrect.	display an error message this brand name are incorrect.	Pass			
3	Verify that address delivery is not able to submit when address delivery is less than 30 words	Should be display an error message this address delivery valid address	display an error message this address delivery valid address	Pass			

Project Name:	Home Appliances Web	Test Designed by:	Jay Rachchh
Module Name:	Add product form by owner	Test Designed date:	26-08-2023
Release Version:	1.0	Test Executed by:	Jay Rachchh
Test Case ID	TC_009	Test Execution date:	28-08-2023

Test Case Title	Verify all given input textbox of client & purchase product form
Test Type	Functional
Test Priority	High
Pre-condition	Client login is required and product should be selected

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Verify that the Add product screen contains elements such as Email id, Client full name, Mo.no , Address to delivery, submit button	All listed control displayed properly on the page	Add home page viewed successfully	Pass			
2	Verify that the Add product screen contains elements such as Email id, Client full name, Mo.no , Address to delivery ,submit button has a valid placeholder	All text fields have proper placeholder	All text fields have proper placeholder	Pass			
3	Verify that tab function is working properly or not	When tab pressed cursor move next control	Cursor moving in next control	Pass			
4	verify the email id it has should be proper format.	Should be display an error message email id is incorrect format. incorrect	display an error message email id is incorrect format.	Pass		Invalid format like abcgmail.com	
5	verify the Mo.no is it has should be proper format.	Should be display an error message Mo.no is incorrect format.	display an error message Mo.no is incorrect format.	Pass		Invalid format like 78945612	

6	verify the address to delivery it has be proper format.	Should be display an error address delivery is less than 30 words	display an error address delivery is less than 30 words	Pass		Invalid format like as address is less than 30 words.	
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7 References

- <https://www.reliancedigital.in/>
- <https://www.meesho.com/>