



Darshan University

A Project Report on

“Online Laptop Store”

Under the subject

Software Engineering (2301CS405)

B. Tech, Semester – IV

Computer Science & Engineering Department

Submitted By

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Academic Year

(2024-2025)

Internal Guide

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**Computer Science & Engineering
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DECLARATION

We hereby declare that the SRS, submitted along with the **Software Engineering (2301CS405)** for entitled “**Online Laptop Store**” submitted in partial fulfilment for the Semester-5 of **Bachelor 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 R. B. Gondaliya and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

Dadhaniya Parth

Student’s Signature

Date: _____



**Computer Science & Engineering
Department
Darshan University**

CERTIFICATE

This is to certify that the SRS on “**Online Laptop Store**” has been satisfactorily prepared by **Dadhaniya Parth (24010101621)** under my guidance in the fulfillment of the course **Software Engineering (2301CS405)** work during the academic year 2024-2025.

Internal Guide
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I also thank my parents, friends and all the members of the family for their precious support and encouragement which they had provided in completion of my work. In addition to that, I would also like to mention the Darshan University personals who gave me the permission to use and experience the valuable resources required for the project from the University premises.

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

Dadhaniya Parth

ABSTRACT

Our online laptop store offers a wide range of laptops to meet the needs of all customers, whether for work, study, gaming, or everyday use. We feature laptops from well-known brands like Dell, HP, Lenovo, and Apple, ensuring quality and reliability. Our easy-to-use website allows customers to browse through various models, compare features, and find the best deals. With options for different budgets, from affordable basic laptops to high-end gaming machines, there's something for everyone. We provide clear product descriptions, reviews, and detailed specifications to help customers make informed decisions. The shopping experience is convenient, with multiple secure payment options and fast shipping to ensure quick delivery of your purchase. Our customer support team is also available to assist with any questions or issues before and after your purchase. Whether you're looking for a lightweight laptop for daily tasks or a powerful machine for intensive gaming or work, our online store makes it simple to find and buy the perfect laptop, all from the comfort of your home. We aim to provide a hassle-free shopping experience and high-quality products at competitive prices to satisfy all our customers' laptop needs.

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1 Introduction

1.1 Product perspective

The online laptop store is designed to provide customers with a convenient, easy-to-use platform to browse, compare, and purchase laptops from the comfort of their homes. It aims to offer a wide range of laptops from different brands, catering to various needs such as work, gaming, or education. With detailed product descriptions, reviews, and competitive pricing, the store ensures customers can make informed decisions. Additional features like secure payment options, fast delivery, and customer support enhance the shopping experience, making it reliable and hassle-free.

1.2 Product features

1.2.1 There are three different users who will be using this product:

- Admin who will be acting as the administrator.
- Customer who will be accessing the all features of this site.
- Shipper who will delivery for product.

1.2.2 The features that are required for the Admin are:

- Add, edit, and remove laptop listings, including images, descriptions, and specifications.
- Manage inventory levels to track stock availability.
- Monitor and track all customer orders.
- Handle cancellations and returns.
- Create, edit, and deactivate user accounts.
- Manage roles and permissions for users and delivery partners.
- Access sales reports, revenue data, and customer insights.
- Create and manage promotional offers, discounts, and coupon codes.
- Assign delivery tasks and track partner performance.
- Ensure secure handling of customer and payment data.
- Oversee customer queries and feedback.

1.2.3 The features that are required for the Customer are:

- Create and manage user profiles.
- Update personal details like name, email, address, and payment preferences.
- Search for laptops by brand, category, specifications, or price range.
- Compare multiple laptops side-by-side based on specifications and pricing.
- View detailed descriptions, specifications, and images of laptops.
- Add items to the cart and proceed to checkout.
- Get real-time updates on the order status, including shipping and delivery.
- Save favourite products for future reference.
- View order history and download invoices.
- Cancel orders or request returns/refunds.

1.2.4 The features that are required for the Shipper are:

- Create and manage personal profiles with contact details and verification documents.
- View assigned delivery orders with customer details and addresses.
- Update order statuses (e.g., picked up, in transit, delivered).
- Integrated maps for optimized delivery routes and directions.
- View and manage daily delivery schedules.
- Receive real-time updates on new orders and urgent delivery changes.

1.3 Functional Requirement

1.3.1 Admin

- Login: Admin can login in the system.
- Add Product: Admin insert a new product in the system.
- Update Product: Admin update a product detail in the system.
- Remove Product: Admin delete a product from the system.
- View Orders: Admin can view all orders.
- Track Inventory: The admin can manage stock levels, track inventory, get alerts for low stock, and update stock as needed.
- Generate Reports: The admin should be to generate and view reports on sales and orders.
- Approve Refunds: The admin should be to approve the refund order return/refund.
- Assign Deliveries: The admin should be to assign a orders to delivery partner.
- Config Promotions: The admin can Create and manage promotional offers, discounts, and coupon codes.
- Handle Queries: The admin should be giving response to customers feedback.
- Issue Resolution: The admin should be solving the bug.
- Logout: After every task admin can logout the system.

1.3.2 Customer

- Authentication: Customer must be authenticated before accessing system.
- Search Product: Customer can search the product with their name and tag.
- Add to Cart: Customer can add a product to cart.
- Purchase Product: Customer can buy a product.
- Compare Product: Customer can compare the products.
- Check Stock: Customer can check the stock of the products.
- Make Payment: Customer can make payment for their orders.
- Wishlist: Customer can save a product for future orders.
- Track Order: Customer can track their order.
- Review and Rating: Customer can give review in the system.

1.3.3 Shipper

- Order Notification: Receive alerts when a new delivery assignment is available.
- View Order: View essential information about the delivery, including pickup and drop-off addresses, package size, and expected delivery time.
- Pickup Confirmation: Mark an order as "picked up" when collected from the seller or warehouse.
- Route Guidance: Access GPS navigation to help reach the delivery destination efficiently.
- Delivery Confirmation: Mark the order as "delivered" and capture proof of delivery.
- Real-Time Updates: Update the order status for customers and sellers to track progress.
- Communication: Contact the customer or seller directly via a call or messaging feature.
- Track Order: View completed deliveries and earnings details for each order.
- Delivery Rating: Allow customers to rate the shipper's service after a delivery is completed.

1.4 Non-Functional Requirement

1.4.1 Performance:

- The website should load quickly, ideally within 3 seconds, to provide a smooth shopping experience.

1.4.2 Scalability:

- The system should be able to handle a growing number of users and orders without slowing down.

1.4.3 Availability:

- The online store should be accessible 24/7 with minimal downtime, ensuring customers can shop anytime.

1.4.4 Security:

- The store must protect customer data, including payment details, using encryption and secure payment gateways.

1.4.5 Usability:

- The website should be easy to navigate, allowing users to find products and make purchases effortlessly.

1.4.6 Compatibility:

- The store should work on various devices and browsers, such as smartphones, tablets, and desktops.

1.4.7 Backup and Recovery:

- Regular backups should be taken, and the system should have a recovery plan in case of data loss or system failure.

1.4.8 Compliance:

- The store should comply with relevant laws and regulations, such as data protection laws.

1.4.9 Support:

- There should be a support system in place, like live chat or email, to help customers with their queries.

1.4.10 Localization:

- The website should support different languages and currencies for customers from various regions.

1.4.11 Reliability:

- The system should work consistently without crashes or errors during transactions.

1.4.12 Load Handling:

- The store should handle high traffic during peak times, like sales events, without slowdowns.

1.4.13 Maintainability:

- The system should be easy to update and fix, without affecting the store's day-to-day operations.

1.4.14 Accessibility:

- The website should be usable by people with disabilities, including text-to-speech compatibility and easy navigation.

1.4.15 Audit and Logging:

- The system should log actions like user logins and purchases to track activities for security and troubleshooting.

2 Design and Implementation Constraints

2.1 Use case diagram

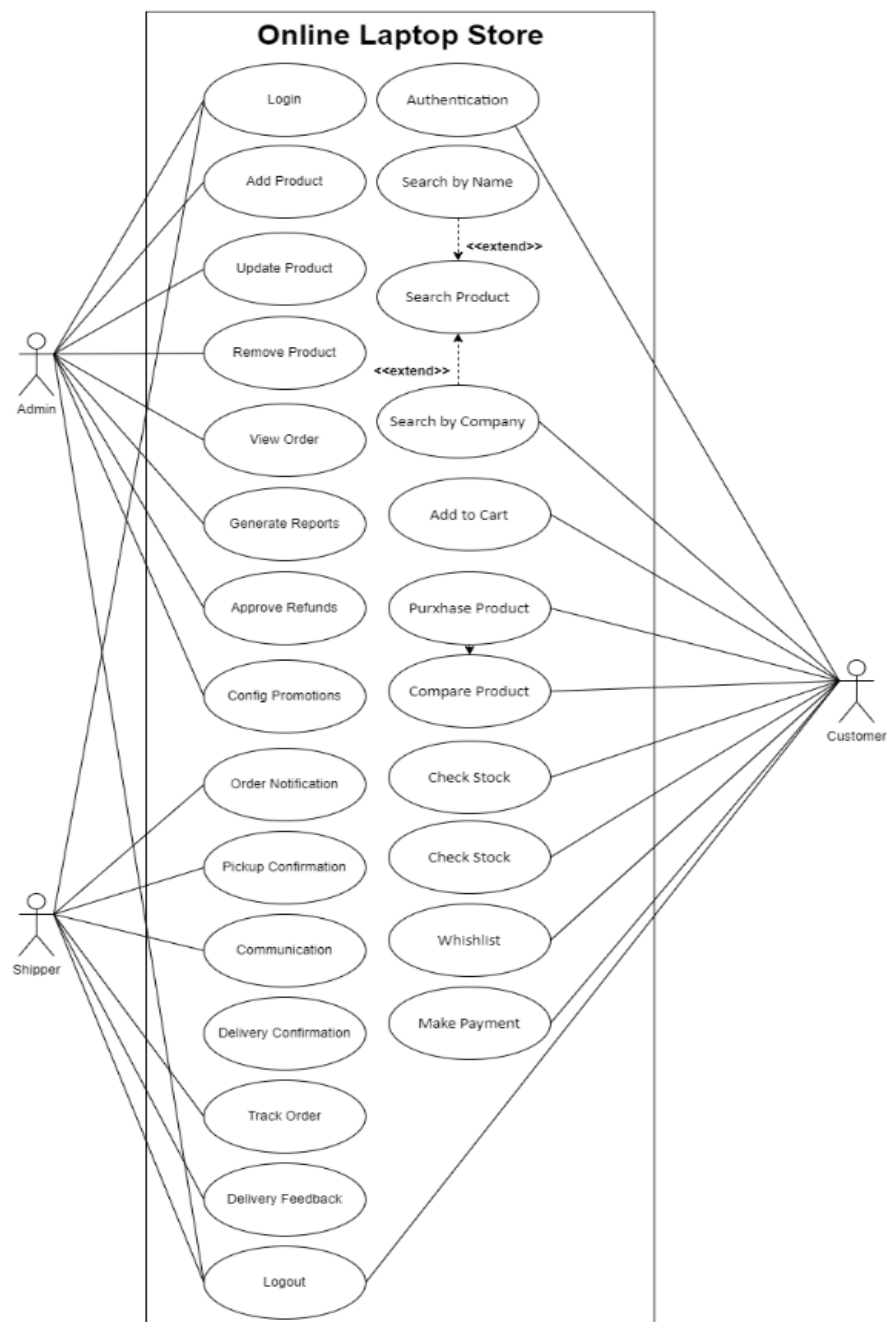


Figure 2.1-1 Use case diagram for online laptop store

2.2 Activity diagram and Swimlane diagram

2.2.1 Activity diagram for Order

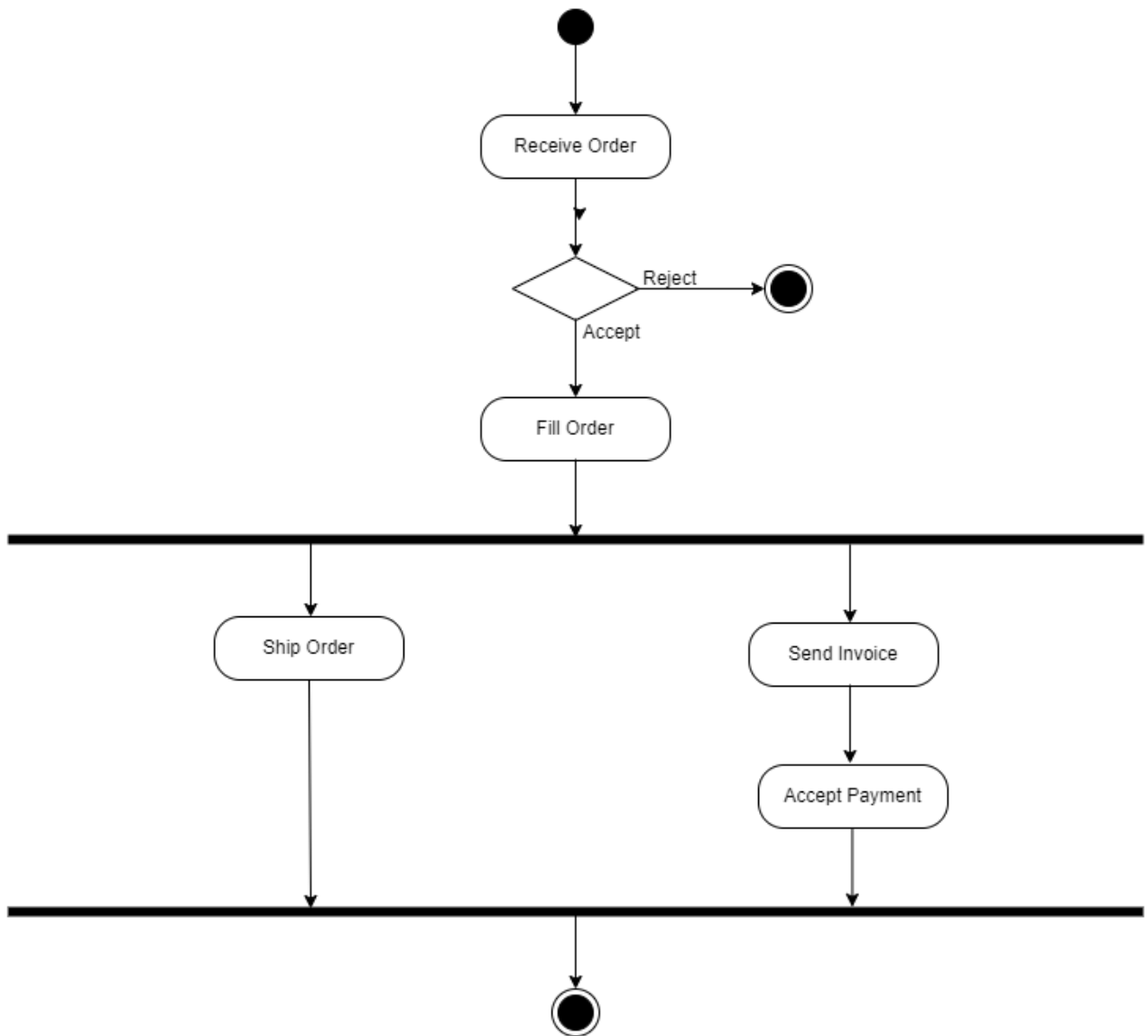


Figure 2.2-1 Activity diagram for Order

2.2.2 Activity diagram for Payment

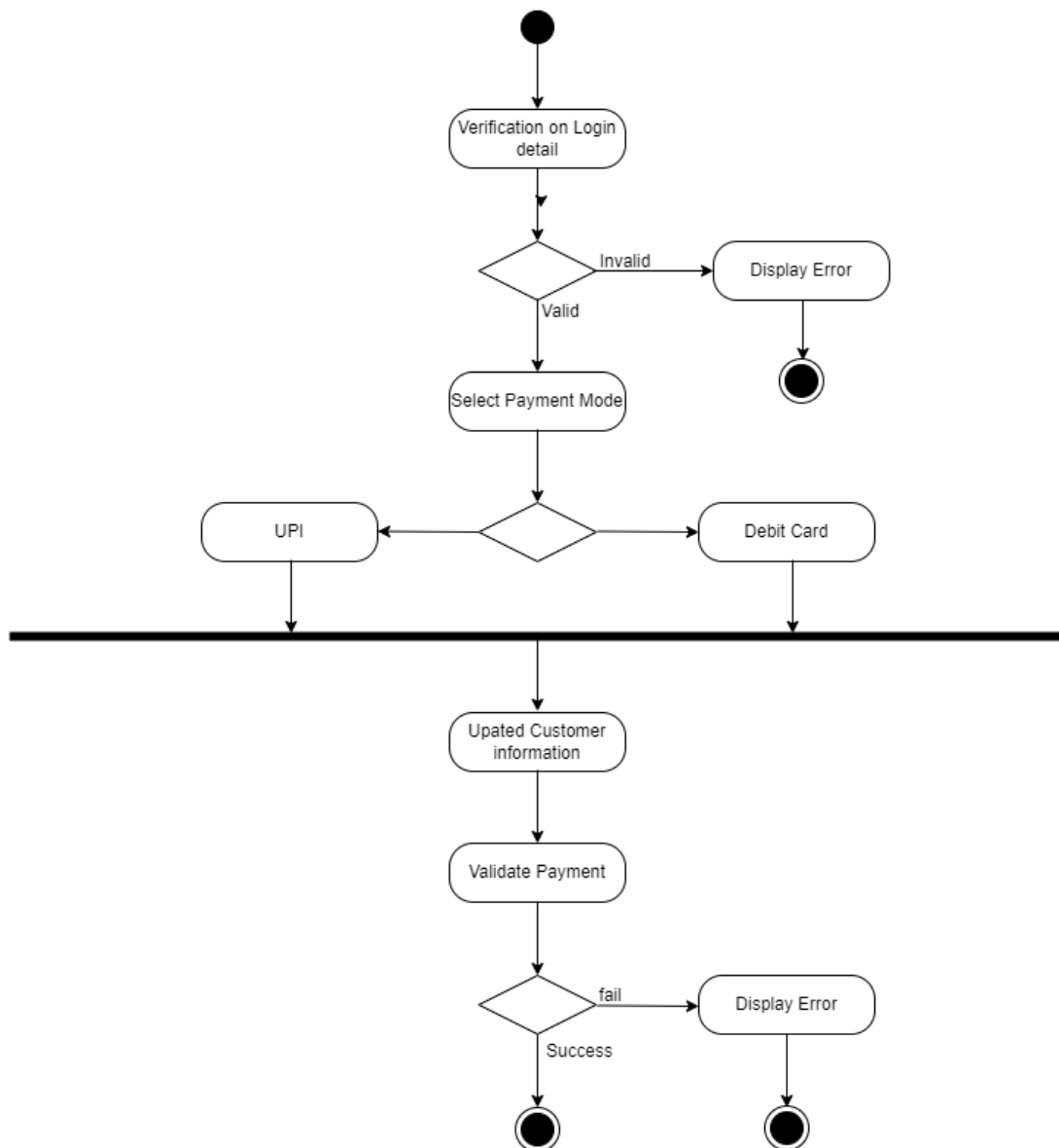


Figure 2.2-2 Activity diagram for Payment

2.2.3 Swimlane diagram for Payment

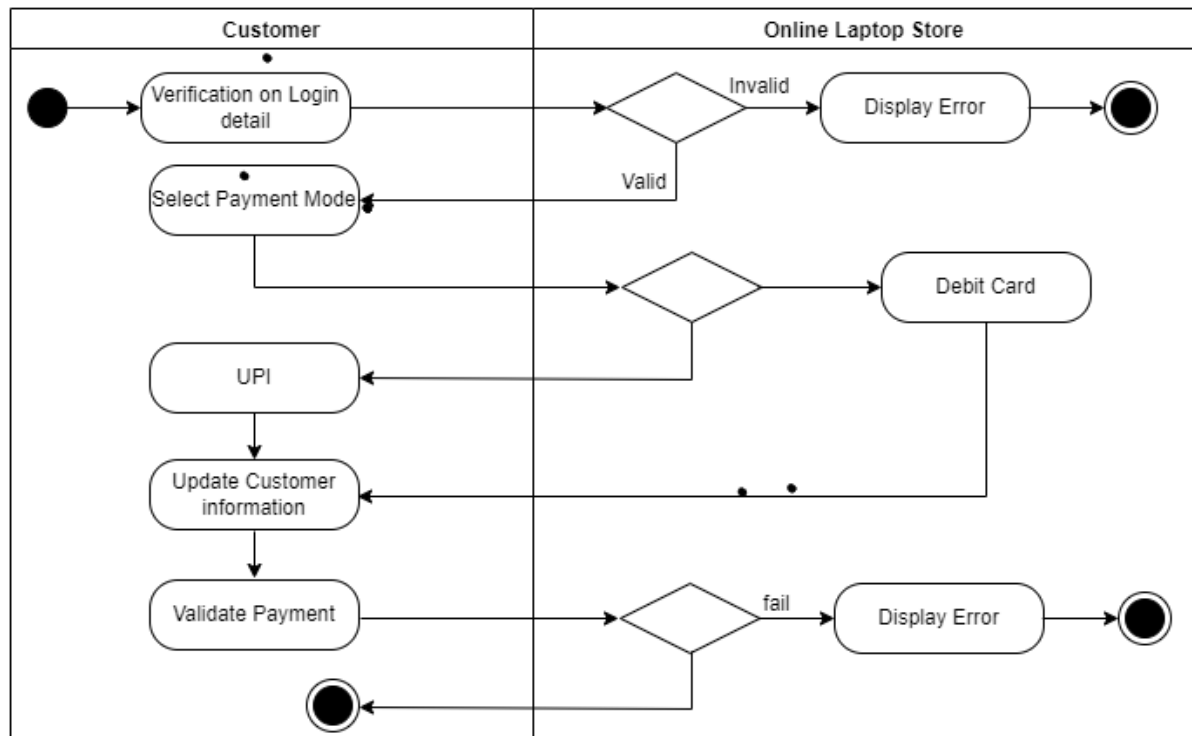


Figure 2.2-3 Swimlane diagram for Payment

2.3 Sequence diagram

2.3.1 Sequence diagram for Order

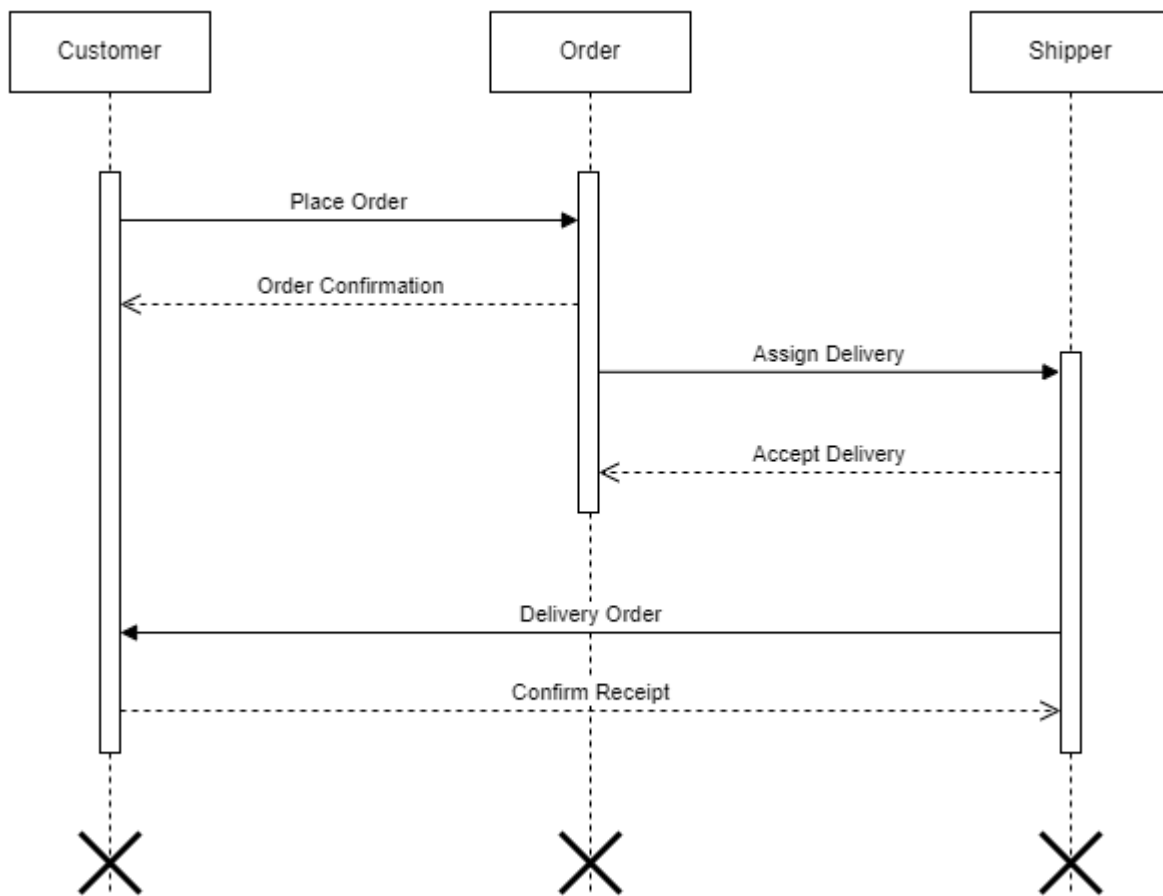


Figure 2.3-1 Sequence diagram for Order

2.3.2 Sequence diagram for View Product

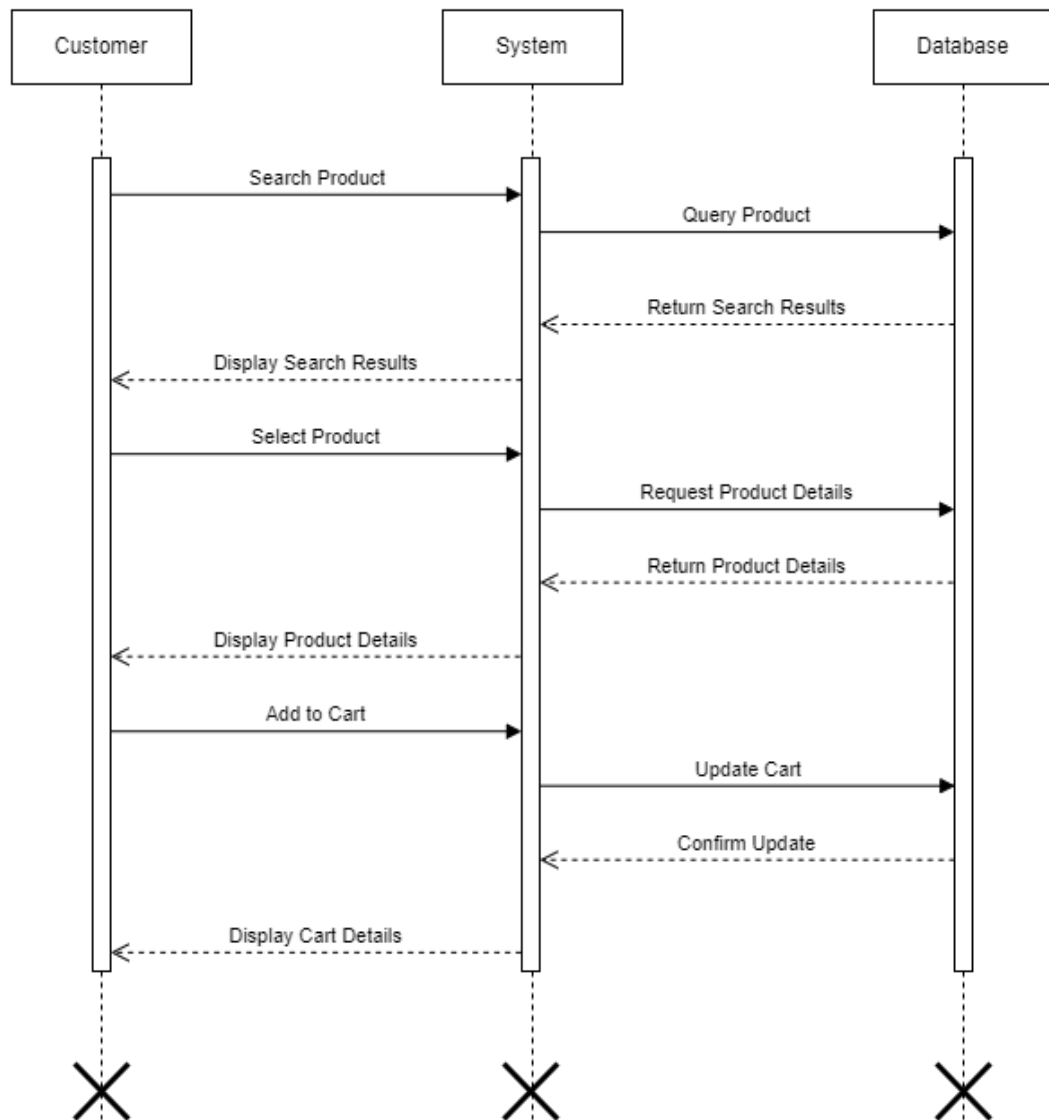


Figure 2.3-2 Sequence diagram for View Product

2.4 State diagram

2.4.1 State diagram for Login

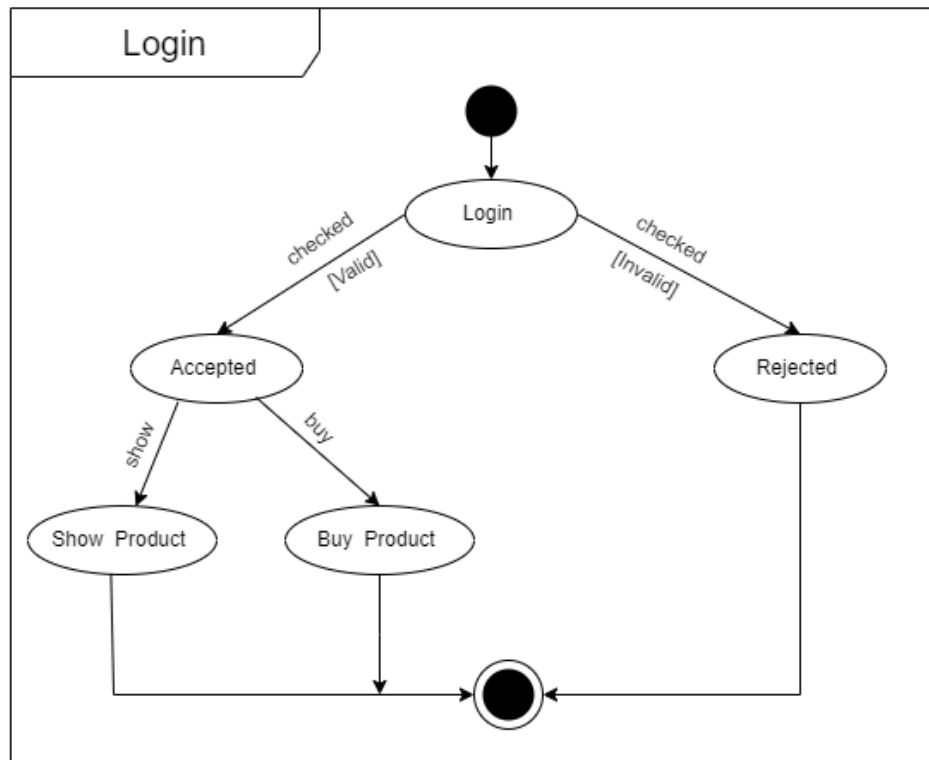


Figure 2.4-1 State diagram for Login

2.4.2 State diagram for Order

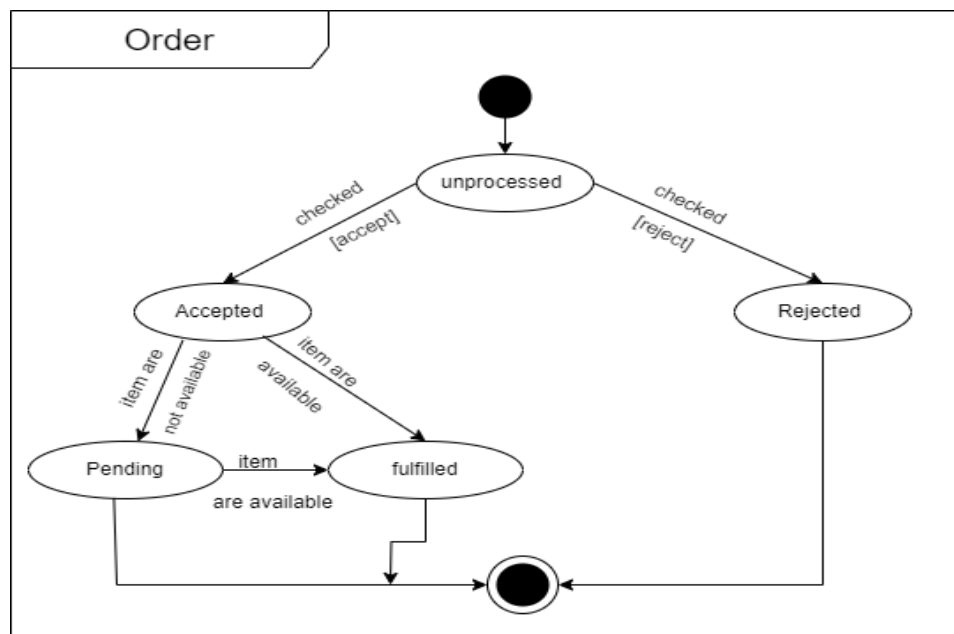


Figure 2.4-2 State diagram for Order

2.5 Class diagram

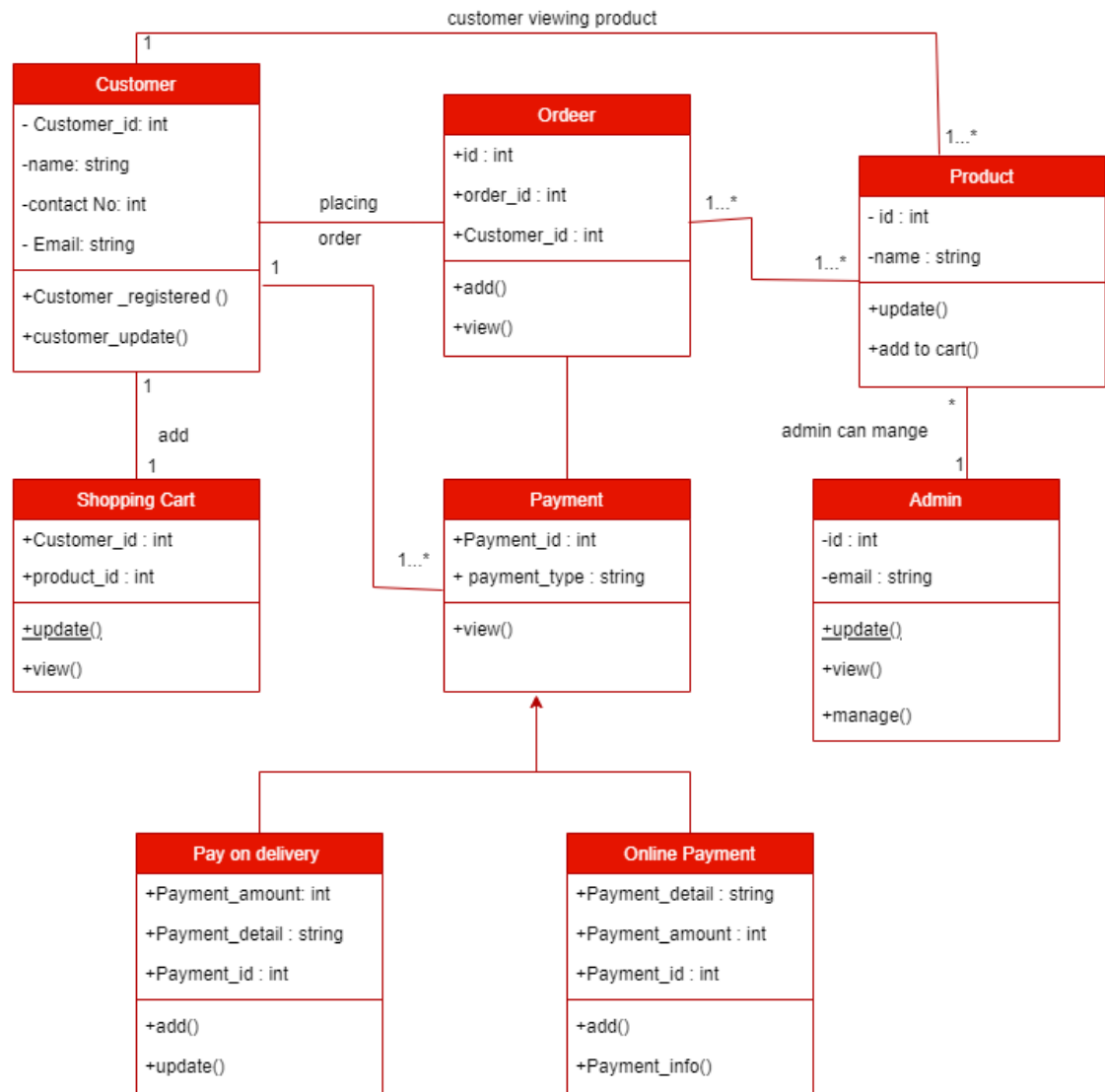


Figure 2.5-1 Class diagram for Online Laptop Store

2.6 Data flow diagram

2.6.1 Context diagram (level-0)

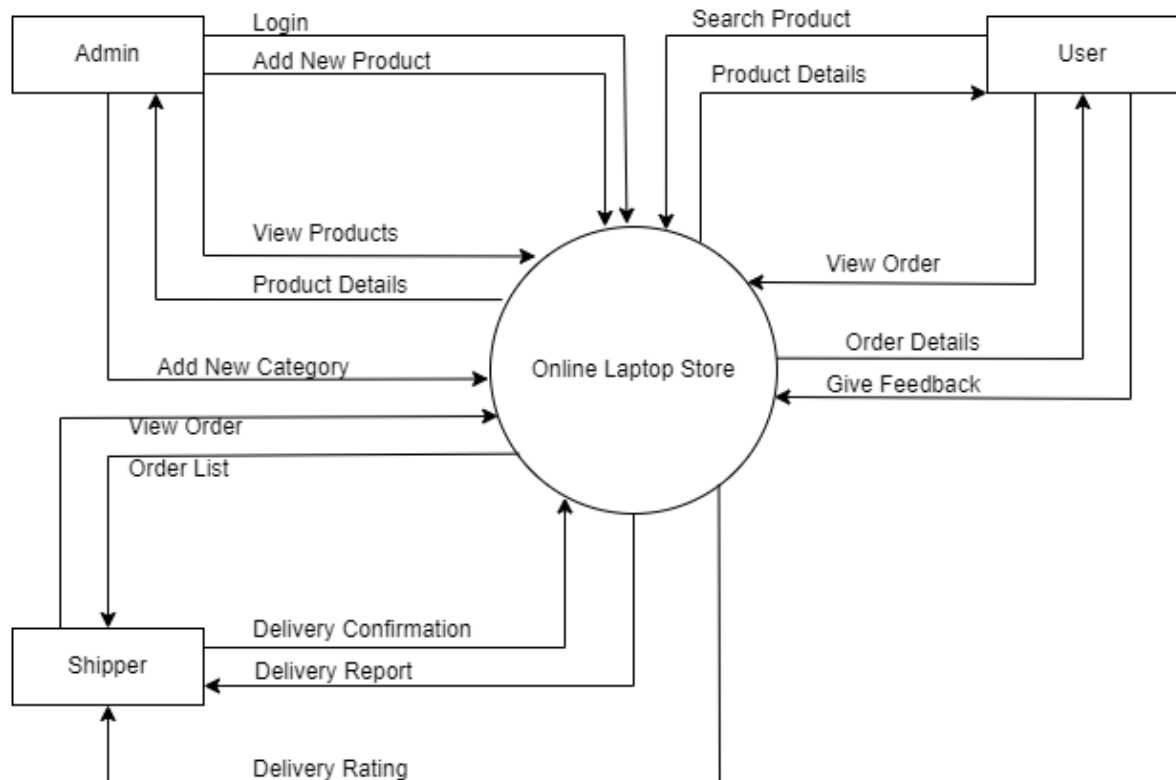


Figure 2.6-1 Context diagram for Online Laptop Store

2.6.2 DFD Level-1

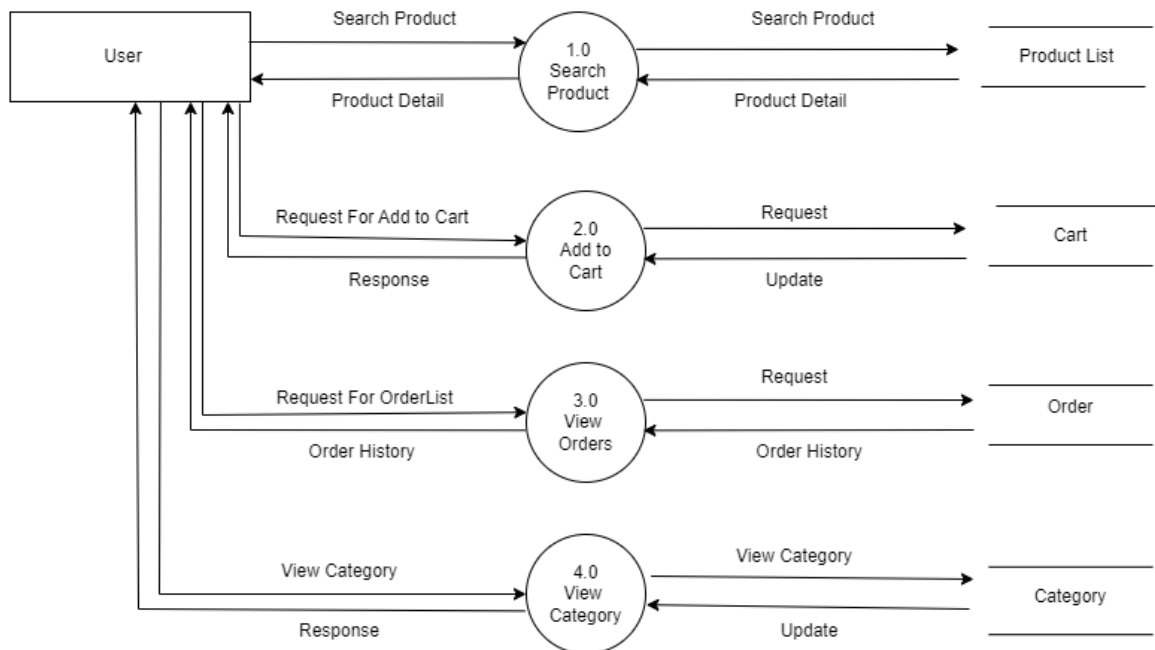


Figure 2.6-2 DFD level-1 for Library management system

3 External interface requirement (Screens)

3.1 Screen-1: Order Cancellation

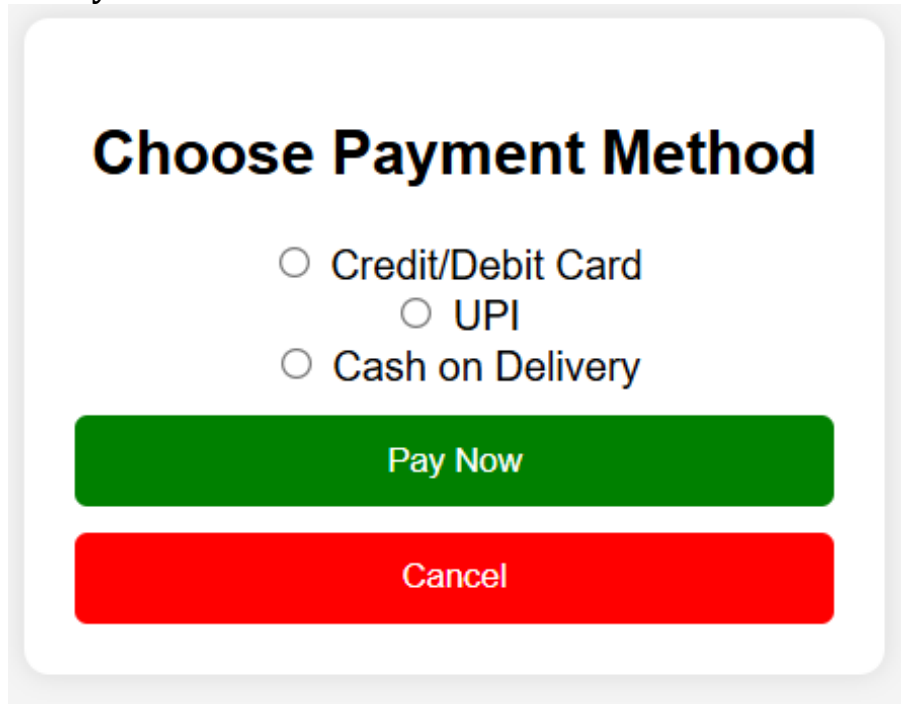
Figure 3.1-1 Screen-1: Order Cancellation

Purpose: The purpose of the order cancellation screen is to allow users to cancel their orders seamlessly while providing reasons for cancellation and any necessary refund or return details.

Table 3.1-1 Screen element of Order Cancellation

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Order ID	Textbox	M	1	Displays the unique order identifier; should be non-editable.
2	Order Date	Textbox	M	1	Displays the date when the order was placed; should be non-editable.
3	Product Name	Textbox	M	1	Displays the name of the ordered product; should be non-editable.
4	Product Code	Textbox	M	1	Displays the unique product code of the ordered item; should be non-editable.
5	Reason for Return	Textbox	M	1	Allows users to enter the reason for cancelling the order.
6	Submit	Button	-----	-----	Confirms the order cancellation request and submits the details.

3.2 Screen-2: Payment Mode



Choose Payment Method

☐ Credit/Debit Card

☐ UPI

☐ Cash on Delivery

Pay Now

Cancel

Figure 3.2-1 Screen-2: Payment Mode

Purpose: The purpose of the payment mode screen is to allow users to select their preferred payment method seamlessly while dynamically displaying relevant input fields and ensuring a smooth checkout experience.

Table 3.2-1 Screen element of Payment Mode

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Credit/Debit Card	Radio Button	M	1	Allows users to select the Credit/Debit Card payment option.
2	UPI	Radio Button	M	1	Allows users to select UPI as the payment method.
3	Cash on Delivery	Radio Button	M	1	Enables users to opt for Cash on Delivery as the payment mode.
4	Pay Now	Button	-----	-----	Confirms the selected payment method and proceeds with the payment.
5	Cancel	Button	-----	-----	Allows users to cancel the payment process and return to the previous screen.

3.3 Screen-3: Add New Product

Add New Product

The screenshot shows a web form titled 'Add New Product'. It has a light gray background. The form elements are:

- Product Name:** A text input field.
- Product Description:** A larger text area with a small icon in the bottom right corner.
- Price:** A text input field.
- Category:** A dropdown menu with 'Electronics' selected and a downward arrow.
- Upload Image:** A button labeled 'Choose file' followed by the text 'No file chosen'.
- Add Product:** A prominent green button at the bottom.

Figure 3.3-1 Screen-3: Add New Product

Purpose: The purpose of the Add New Product page is to enable users to quickly add products with key details, ensuring accurate listings and a better shopping experience.

Table 3.3-1 Screen element of Add New Product

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Product Name	Textbox	M	1	Allows users to enter the name of the product.
2	Product Description	Text area	M	1	Enables users to provide details about the product.
3	Price	Textbox	M	1	Allows users to enter the product price.
4	Category	Dropdown	M	1	Let's users select the appropriate category for the product.
5	Upload Image	File	M	1	Enables users to upload an image of the product.
6	Add Product	Button	-----	-----	Submits the product details to be added to the system.

3.4 Screen-4: Add New Category

Add New Category

Category Name

Category Description

Parent Category (Optional)

None

Upload Category Image

Choose file No file chosen

Add Category

Figure 3.4-1 Screen-4: Add New Category

Purpose: The purpose of the Add New Category screen is to allow users to create and organize product categories by providing a name, description, parent category, and image for better product management.

Table 3.4-1 Screen element of Add New Category

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Category Name	Textbox	M	1	Allows users to enter the name of the category.
2	Category Description	Text Area	M	1	Enables users to provide details about the category.
3	Parent Category	Dropdown	M	1	Let's users select a parent category (if applicable).
4	Upload Category Image	File	M	1	Allows users to upload an image representing the category.
5	Add Category	Button	-----	-----	Submits the category details to be added to the system.

3.5 Screen-5: Feedback Form

Feedback Form

The screenshot shows a feedback form with the following elements:

- Name:** A text input field.
- Email:** A text input field.
- Feedback Type:** A dropdown menu currently showing "General Feedback".
- Message:** A large text area for detailed feedback.
- Submit Feedback:** A blue button at the bottom.

Figure 3.5-1 Screen-5: Feedback Form

Purpose: The purpose of the Feedback Form screen is to allow users to share their opinions, report issues, and provide suggestions, helping improve services, products, or user experiences.

Table 3.5-1 Screen element of Feedback Form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Name	Textbox	M	1	Allows users to enter their name.
2	Email	Textbox	M	1	Enables users to provide their email address for communication.
3	Feedback Type	Dropdown	M	1	Lets users select the type of feedback they are submitting.
4	Message	Text area	M	1	Allows users to write detailed feedback, suggestions, or issues.
5	Submit Feedback	Button	-----	-----	Submits the feedback form for review and action.

4 Database design

4.1 List of Tables

- Users
- Products
- Orders
- Payment
- Categories

Table 4.1-1 Table: Users

Column	Data Type	Null	Keys & Constrains	Default Value & Description
UserID	int	NN	PK (Auto Increment)	
Name	varchar(100)	NN		
Email	varchar(100)	AN	Unique	
Password	varchar(255)	AN		Hashed password storage
Phone	varchar(20)	AN		

Table 4.1-2 Table: Products

Column	Data Type	Null	Keys & Constrains	Default Value & Description
ProductID	int	NN	PK (Auto Increment)	
CategoryID	int	NN	FK (Categories)	
Name	varchar(150)	NN		
Description	Text	AN	Unique	
Price	decimal(10.2)	AN		
Stock	int	AN		Quantity available

Table 4.1-3 Table: Orders

Column	Data Type	Null	Keys & Constrains	Default Value & Description
OrderID	int	NN	PK (Auto Increment)	
UserID	int	NN	FK (Users)	
TotalPrice	decimal(10.2)	NN		
Status	varchar(50)	AN		(Pending, Shipped, Delivered)
Created_at	Timestamp	AN		CURRENT_TIMESTAMP

Table 4.1-4 Table: Payment

Column	Data Type	Null	Keys & Constrains	Default Value & Description
PaymentID	int	NN	PK (Auto Increment)	
OrderID	int	NN	FK (Categories)	
UserID	Int	NN	FK (Users)	
Amount	decimal(10,2)	AN		
PaymentMethod	varchar(50)	AN		(Credit card, UPI, COD)

Table 4.1-5 Table: Categories

Column	Data Type	Null	Keys & Constrains	Default Value & Description
CategoryID	Int	NN	PK (Auto Increment)	
Name	varchar(100)	NN	Unique	
Description	text	NN		

5 Stories and Scenario

5.1 Story-1: Successful Payment

Story # S1	:	As a customer, I want to make a successful payment for my online purchase. So that I can make payment method.
Priority	:	High
Estimate	:	XXL
Reason	:	The development of a payment page is complex task because it involve calculation of amount based on product type, product count in the Kitchen Accessories Management System.

5.1.1 Scenario# S1.1

Scenario# S1.1	:	Credit Card Payment
Prerequisite	:	User has items in the cart and is on the payment page.
Acceptance Criteria	:	Given: Enter valid credit card details (card number, expiration date, CVV). When: Click on the "Pay Now" button. Then: Payment is successful, and the user receives a confirmation message. The order is processed.

5.1.2 Scenario# S1.2

Scenario# S1.2	:	PayPal Payment
Prerequisite	:	User has items in the cart and is on the payment page.
Acceptance Criteria	:	Given: Customer navigate to the payment page. When: <ul style="list-style-type: none"> ○ Click on the "Pay with PayPal" button. ○ Log in to the PayPal account. ○ Authorize the payment. Then: Payment is successful, and the user receives a confirmation message. The order is processed.

5.1.3 Scenario# S1.3

Scenario# S1.3	:	Invalid Credit Card Details
Prerequisite	:	User has items in the cart and is on the payment page.
Acceptance Criteria	:	Given: Enter invalid credit card details (e.g., incorrect card number, expired card). When: Click on the "Pay Now" button. Then : Payment fails, and the user receives an error message indicating the issue with the card details.

5.2 Story-2: Registration Form

Story # S2	:	As a customer, I want to verify that a user can successfully register on the website. So that I can make registration form.
Priority	:	High
Estimate	:	XL
Reason	:	To verify that the registration form properly handles errors and displays appropriate messages.

5.2.1 Scenario# S2.1

Scenario# S2.1	:	Successful User Registration
Prerequisite	:	User on the registration form.
Acceptance Criteria	:	Given: I am on the registration page When: I fill in valid and unique registration information (email, password, username, etc.) and I click the "Register" button. Then: I should see a confirmation message.

5.2.2 Scenario# S2.2

Scenario# S2.2	:	Registration Error Handling
Prerequisite	:	User on the registration form.
Acceptance Criteria	:	Given: I am on the registration page When: I submit the form with missing required fields (e.g., leaving email and password fields empty). Then: I should see validation messages for the missing fields. and I should not be registered.

5.2.3 Scenario# S2.3

Scenario# S2.3	:	Password Strength
Prerequisite	:	User on the registration form.
Acceptance Criteria	:	Given: I am on the registration page. When: I enter a weak password (e.g., too short or lacking complexity). Then: I should see a validation message for the password field. and I should not be able to submit the form.

6 Test cases

Project Name:	Online Laptop Store	Test Designed by:	P. M. Dadhaniya
Module Name:	Login	Test Designed date:	09-03-2025
Release Version:	1.0	Test Executed by:	R. B. Gondaliya
		Test Execution date:	09-03-2025

Pre-condition: Web application should be accessible				
Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_001	Add product to cart	Functional	Add a product to the shopping cart	TC_001
TC_002	Remove product from cart	Functional	Remove a product from the shopping cart	TC_002

Test Case Title	Add product to cart
Test Type	Functional
Test Priority	High
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to the product page	Product page should be displayed	Product page displayed successfully	Pass		https://onlineshop ping.com/addto cart	
2	Select a product from the list	Product details page should be displayed	Product details page opened	Pass			
3	Click on "Add to Cart" button	Product should be added to the cart	Product added successfully	pass			
4	Go to the cart page	Cart page should display added product	Cart page displayed correctly	Pass			

Test Case Title	Remove product from cart
Test Type	Functional
Test Priority	Medium
Pre-condition	Web application should be accessible, and at least one product should be in the cart.

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Navigate to the cart page	Cart page should display added product	Cart page displayed successfully	Pass			
2	Verify that the product details (name, price, quantity) are visible	Product details should be displayed correctly	Product details are visible	Pass			
3	Click on "Remove" button for a product	Product should be removed from the cart	Product removed successfully	Pass			
4	Verify that the cart updates and the removed product is no longer Visible	Cart should update and removed product should disappear	Cart updated; product removed	Pass			

Pre-condition: Web application should be accessible				
Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_003	Enter shipping address	Functional	Enter user shipping address for order placement	TC_003
TC_004	Verify address form elements	GUI	Ensure all address form elements are present and functional	TC_004
Project Name:		Online Shopping	Test Designed by:	Karan Sonagara
Module Name:		Address Form	Test Designed date:	22-02-2025
Release Version:		1.0	Test Executed by:	R. B. Gondaliya
			Test Execution date:	15-01-2023

Test Case Title	Enter shipping address
Test Type	Functional
Test Priority	High
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to the checkout page	Checkout page should be displayed	Checkout page displayed successfully	Pass			
2	Enter Name in the Name field	Name field should accept input	Name entered successfully	Pass			
3	Enter Address Related Detail Enter	Address related field should accept input	Address form loaded	Pass			
4	Click on the "Submit" button	Address should be saved, and the user should proceed to the next step	Address saved successfully	Pass			

Test Case Title	Verify address form elements
Test Type	GUI
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Navigate to the address form page	Address form page should be displayed	Address form displayed successfully	Pass			
2	Verify presence of Name, Mobile No, Email ID fields	All fields should be present	Fields are present	Pass			
3	Verify that the "Submit" button is enabled	Submit button should be enabled	Button is enabled	Pass			
4	Verify field validation for empty input	Fields should show error messages for blank input	Validation messages displayed	Pass			

7 References

- http://www.w3schools.com/html/html_intro.asp
- <https://www.w3schools.com/php/default.asp>
- <https://www.javatpoint.com/uml>