



**Daffodil**  
*International*  
**University**

Faculty of Science and Information Technology

Department of Software Engineering

Project Report on

**E-COMMERCE WEB DEVELOPMENT PROJECT**

**FOR TECH SHOP IT**

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This project report has been submitted to the Department of Software engineering (SWE) at Daffodil International University in fulfilment of the requirements for the degree of **Bachelor of Science in Software Engineering**

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## APPROVAL

This Project titled on “E-Commerce Web Development Project for Tech Shop IT”, submitted by: **Moneruzzaman (ID: 192-35-2867)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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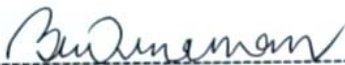
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## SUPERVISOR'S DECLARATION

I hereby declare that I have checked this project and, in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Science.

  
\_\_\_\_\_  
(Supervisor's Signature)

**Full Name** : Tapushe Rabaya Toma

**Position** : Assistant Professor

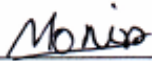
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**Date** : 15/01/2025

## STUDENT'S DECLARATION

I hereby declare that the work in this project is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Daffodil International University or any other institution.



(Student's Signature)

Full Name : **Moneruzzaman**

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Date : 15 / 01 / 2025

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## DEDICATION

I therefore declare that I have done this project under the oversight of “**Supervisor MS. Tapushe Rabaya toma**”, “**Assistant professor**”, Department of Software Engineering, Daffodil International University. Also declare that neither entire record nor any portion of this record has been submitted somewhere else for my degree.

## ABSTRACT

An e-commerce website serves as a digital platform for buying and selling products or services over the internet. It enables businesses to reach a global audience, offering features such as product catalogs, secure payment systems, and order management. Customers can browse, compare, and purchase items conveniently from anywhere, while businesses benefit from streamlined operations and enhanced market presence. By integrating user-friendly interfaces, personalized experiences, and efficient delivery systems, e-commerce websites drive innovation and convenience in modern retail.

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# CHAPTER 1 INTRODUCTION

## 1.1 Background

The "Tech Shop IT" e-commerce project was developed to meet the growing demand for technology products online. The platform aims to provide a seamless shopping experience for customers by offering easy navigation, secure transactions, and timely order tracking. It also equips admins and managers with tools to efficiently manage products, orders, and sales. This project seeks to enhance business growth and become a go-to online destination for tech enthusiasts.

### 1.1.1 Context and Relevance:

The context and relevance of an e-commerce project lie in its ability to adapt to the digital transformation era, where consumers prefer online shopping for convenience, variety, and efficiency. It enables businesses to expand globally, streamline operations, and meet modern customer expectations while leveraging technology to stay competitive and relevant in the evolving marketplace.

### **1.1.2 Problem Identification:**

The problem identification for an e-commerce project involves addressing issues such as:

- Limited market reach for businesses.
- Inconvenience of traditional shopping methods.
- High operational costs for physical stores.
- Lack of product availability in certain regions.
- Inefficient inventory and order management.
- Challenges in providing personalized customer experiences.
- Difficulty in analysing customer behaviour and preferences.
- Security concerns in online transactions.

### **1.1.3 Purpose and Justification:**

The purpose of an e-commerce project is to create a platform for convenient, scalable, and efficient online buying and selling, enabling businesses to reach a global audience, reduce costs, and enhance customer experiences through automation, personalization, and data-driven insights.

### **1.1.4 Scope:**

#### **1. User Management:**

- ✓ Registration: User account creation with email verification.

- ✓ Login: Secure access to user accounts.
- ✓ Update Profile: Users can edit personal information.

## **2. Product Management:**

- ✓ View Product: Display product details with images and descriptions.
- ✓ Add Product: Admins can add new products to the inventory.
- ✓ Update Product: Modify existing product details.
- ✓ Delete Product: Remove products from the inventory.

## **3. Cart Management:**

- ✓ Update Cart: Modify item quantities in the cart.
- ✓ Add to Cart: Users can add products to their shopping cart.
- ✓ Delete from Cart: Remove items from the cart.

## **4. Order Management:**

- ✓ View Order: Customers can view their order history.
- ✓ Make Payment: Secure payment processing for orders.
- ✓ Confirm Order: Finalize orders and send confirmation.

## **5. Reporting:**

- ✓ Order Report: Overview of order statuses and history.
- ✓ Sales Report: Insights into sales performance.
- ✓ Product Report: Track product inventory and performance.

## **6. Search Functionality:**

- ✓ Search Product: Users can search for products by name or category.

## **1.2 Project Planning and Initiation**

- ✓ Stakeholder Identification:
- ✓ 2. Defining Scope:
- ✓ 3. Requirements Documentation:

- ✓ 4. Technology Selection:
- ✓ 5. Project Timeline:

## **Feasibility Study (Step-by-Step)**

### Financial Feasibility:

Significant upfront cost for development, marketing, and vendor onboarding. Commissions on sales, subscription fees for vendors, advertising. Depends on market penetration rate, vendor acquisition speed, and customer retention.

### **Phase 1 Preliminary Analysis & Project Scope Definition:**

The purpose of this stage is to assess feasibility, identify key requirements, and set the foundation for the project.

**Objective Definition:** Establish high-level goals for the e-commerce platform (e.g., increasing sales, improving user experience, or expanding market reach).

**Stakeholder Identification:** Identify key stakeholders (business owners, customers, vendors, and technical teams).

### **Phase 2 Market Feasibility Analysis (or Market Research):**

- ✓ Analyse the target audience, competitors, and current market trends.
- ✓ Identify customer pain points and expectations

### **Phase 3 Technical Feasibility Analysis:**

Requirements:

- ✓ Web development tools: HTML5, CSS3, JavaScript, PHP backend (Laravel), database (MySQL).
- ✓ Hosting and deployment: Cloud-based services (Vercel).

### **Phase 4 Financial Feasibility Analysis:**

Develop a rough budget estimate, considering development, hosting, marketing, and operational costs.

## **1.3 Target User Profile and Tentative Elicitation Process:**

### **1.3.1 Target User**

Categories of Users:

- ✚ Shoppers/Customer: Individuals who browse and purchase products.
- ✚ Admins/Managers: Users who manage products, orders, and other site functionalities.
- ✚ Suppliers/Vendors: Those who provide products or services for the platform.
- ✚ Developers: Internal users responsible for maintaining and updating the website.

### **1.3.2 Tentative Elicitation Process:**

- ✓ Potential customers: to learn about their buying habits and preferences for a tech e-commerce platform.
- ✓ Internal staff (admins/manager): to understand requirements for product management, sales reports, and order management.
- ✓ Developers: for insights into integrating payment gateways and inventory systems.

### 1.3.3 Stakeholders

Stakeholders are individuals or groups directly involved with or impacted by a system or project. They benefit from the project's outcomes and can be categorized as internal or external stakeholders. The stakeholders for the "This Project for Tech Shop IT" are listed below:

- **User/Customer.**
- Admin.
- Manager

### 1.4 Project Scheduling

Activities	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13
Research													
Requirement Analysis													
Planning													
Designing													
Development													
Testing													
Assessment													
Documentation													

Table 1.1: Gantt Charts

## **1.5 Summary:**

E-commerce projects streamline online buying and selling by developing digital platforms for businesses to reach and serve customers. Key components include building user-friendly websites or apps, integrating secure payment systems, managing product catalogs, and ensuring smooth checkout experiences. These projects often focus on personalization, scalability, and performance optimization while addressing market trends and customer needs. Successful execution requires clear goals, defined project scope, efficient workflows, and robust technology. Advanced features like AI-driven recommendations and multi-channel integrations enhance competitiveness, driving growth and customer satisfaction.

# **CHAPTER 2 DESIGN AND IMPLEMENTATION**

## **2.1 Introduction:**

The Design and Implementation phase of an e-commerce project involves translating business goals into functional, user-friendly digital solutions. During the design phase, focus is placed on user interface (UI) and user experience (UX) design, ensuring the platform is visually appealing, intuitive, and easy to navigate. Implementation involves developing the back-end infrastructure, integrating essential systems (payment gateways, inventory management), and ensuring the site's scalability and security. Key steps include selecting technology stacks, building responsive designs, testing performance, and launching the platform. The ultimate goal is to deliver a seamless, robust, and customer-centric online shopping experience.

## **2.2 Functional Requirements:**

Functional requirements are the key features of the project that must be included and implemented. They describe what the project should do. Meeting all functional requirements is essential.

- The functional requirements for the "Tech shop It" are:

- Products View
- Products Search
- Profile Update
- Add to Cart
- Delete from Cart
- Confirm Order
- Order View
- Make Payment
- Dashboard
- Category Create
- Products Update
- Orders Manage
- Products Create
- Manage Users
- Create Reports

## 2.3 Non-Functional Requirements

Non-functional requirements describe the quality aspects of a system. They explain how well the system meets the functional requirements. These requirements must be followed to maintain quality.

The non-functional requirements for the "Tech shop It" are:

- ✓ Performance
- ✓ Reliability
- ✓ Portability
- ✓ Security

## 2.4 Object-oriented System design using UML

### 2.4.1 Use Case Diagram:

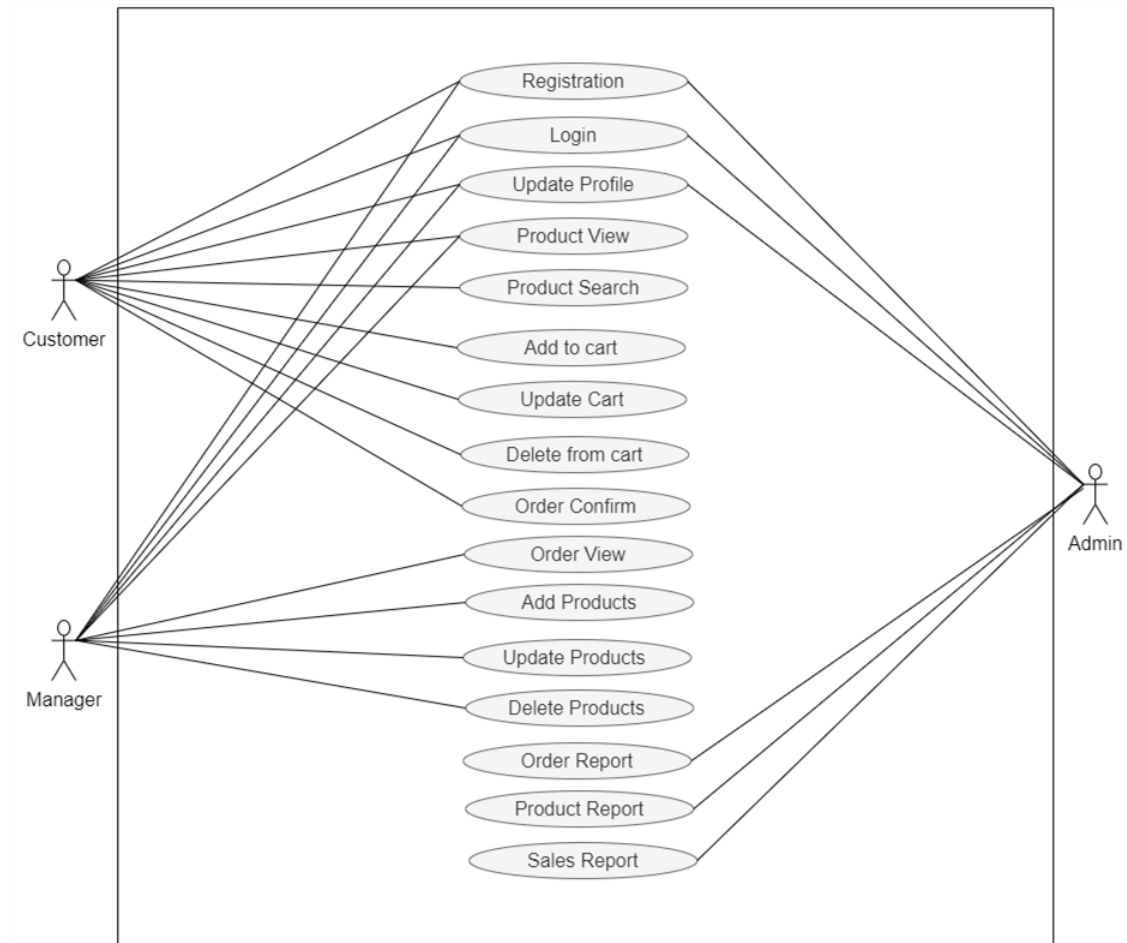


Figure 1.1: Use case Diagram

## 2.4.2 Case Description:

Registration:

Use Case	Description
Use Case Name	User Registration
Primary Actors	Customer, Admin, Manager.
Goal	To allow a user (Customer, Admin, or Manager) to create an account on the e-commerce platform.
Stakeholders & Interests	<ul style="list-style-type: none"><li>- Customer: Wants to create an account to shop and access personalized features.</li><li>- Admin: Needs to register new admin accounts to manage the platform.</li><li>- Manager: Wants to register a manager account for overseeing operations.</li></ul>
Pre-Conditions	User (Customer, Admin, or Manager) is on the registration page and has not registered yet.
Post-Conditions	User account is created successfully. Customer, Admin, or Manager is logged in or redirected to the homepage or appropriate dashboard.
Main Success Scenario	<ol style="list-style-type: none"><li>1. User navigates to the registration page.</li><li>2. User fills in the required registration details (e.g., name, email, password, role).</li><li>3. User submits the registration form.</li><li>4. System validates the information, creates the account, and assigns the appropriate role.</li><li>5. User is successfully registered and logged in, redirected to the homepage (for Customers) or dashboard (for Admins/Managers).</li></ol>
Alternative Flow	<ol style="list-style-type: none"><li>1. If the email is already registered, the system informs the user and prompts for login.</li></ol>
Exceptions	<p>If mandatory fields are missing, the system prompts the user to complete the form.</p> <p>If there is a system error, the user is informed and the registration process is halted.</p>

**Login:**

Use Case Title	Description
Use Case Name	User Login
Primary Actors	Customer, Admin, Manager.
Goal	To allow a user (Customer, Admin, or Manager) to log into their account on the e-commerce platform.
Pre-Conditions	User (Customer, Admin, or Manager) has a registered account with valid login credentials (email and password).
Post-Conditions	User is successfully logged in and redirected to the homepage or respective dashboard based on their role.
Main Success Scenario	<ol style="list-style-type: none"><li>1. User navigates to the login page.</li><li>2. User enters email and password.</li><li>3. User submits the login form.</li><li>4. System validates credentials.</li><li>5. User is successfully logged in and redirected to the appropriate page (homepage for Customer, dashboard for Admin/Manager).</li></ol>
Alternative Flow	<ol style="list-style-type: none"><li>1. If the credentials are incorrect, the system displays an error message and prompts the user to retry.</li><li>2. If the user has forgotten the password, the system provides a password reset link.</li></ol>
Exceptions	- If there is a system error during login, the user is notified and prompted to try again later.

**View products:**

Use Case	Description
Use Case Name	View Product
Primary Actors	Customer, Manager.
Goal	To allow the customer to view product details and for the manager to manage product visibility.

Pre-Conditions	The product catalog is available, and the customer or manager is able to access the platform.
Post-Conditions	The customer has successfully viewed the product details, or the manager has ensured the product is correctly displayed to customers.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Customer navigates to the product listing page.</li> <li>2. Customer selects a product to view.</li> <li>3. System displays the product details, including images, price, description, availability, and reviews.</li> <li>4. Customer can add the product to the cart or continue browsing.</li> <li>5. Manager can check product visibility and adjust if necessary (for example, by editing or activating the product in the admin panel).</li> </ol>
Alternative Flow	<ol style="list-style-type: none"> <li>1. If the product is out of stock, the system notifies the customer and displays an alternative suggestion.</li> <li>2. If the product details are incomplete, the system displays a message prompting the manager to update the product information.</li> </ol>
Exceptions	<ul style="list-style-type: none"> <li>- If there is a system failure while loading the product page, the customer is informed, and they are asked to try again later.</li> <li>- If the product does not exist, the system shows a "Product not found" message.</li> </ul>

**Update profile:**

Use case	Description
Use Case Name	Update profile
Primary Actor	User, Admin and Manager
Goal	To allow a user (Customer, Admin, or Manager) to update their personal or account details on the platform.
Pre-Condition	User (Customer, Admin, or Manager) is logged into the platform and has access to the profile update section.
Post-Condition	The user's profile information is successfully updated and saved in the system.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. User navigates to the profile page.</li> <li>2. User selects the "Edit Profile" option.</li> <li>3. User updates the necessary fields (e.g., name, email, address, phone number).</li> <li>4. User submits the changes.</li> <li>5. System validates the input, saves the changes, and confirms the update to the user.</li> <li>6. The user's updated profile is displayed, and the changes are reflected across the platform.</li> </ol>
Alternative Flows	<ol style="list-style-type: none"> <li>1. If the user enters invalid information the system displays an error message and prompts the user to correct it.</li> <li>2. If the user does not make any changes and attempts to submit, the system notifies them that no changes were made.</li> </ol>

### Search Products:

Use case	Description
Use Case Name	Search products
Primary Actor	Customer
Goal	To allow the customer to search for products based on various criteria such as name, category, price range, etc.
Pre-Condition	The customer is logged in or browsing as a guest on the platform, with access to the search functionality.
Post-Condition	The customer is presented with search results based on their query and can proceed to view product details or refine their search.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Customer navigates to the search bar or search page.</li> <li>2. Customer enters a search query (e.g., product name, category, brand).</li> <li>3. Customer applies additional filters (e.g., price range, size, color) if desired.</li> <li>4. System processes the query and filters, then displays relevant product results.</li> <li>5. Customer can browse search results, click on a product to view details, or refine the search further.</li> </ol>
Alternative Flows	<ol style="list-style-type: none"> <li>1. If no results are found, the system displays a "no results" message and suggests related or popular products.</li> <li>2. If the customer uses invalid characters in the search, the system notifies them and suggests possible corrections.</li> </ol>

### View cart

Use case	Description
Use Case Name	View cart
Primary Actor	Customer
Goal	To allow the customer to view the items they have added to their shopping cart.
Pre-Condition	The customer has added products to their cart and is logged into the platform or browsing as a guest.
Post-Condition	The customer is shown a detailed view of their cart, including products, quantities, total cost, and options to modify or proceed to checkout.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Customer clicks on the "Cart" icon or navigates to the cart page.</li> <li>2. System displays the contents of the cart, including product names, quantities, and total cost.</li> <li>3. Customer can modify quantities, delete items, or proceed to checkout</li> </ol>
Alternative Flows	If the cart is empty, the system displays a message indicating that the cart is empty and suggests shopping.

### Add to cart

Use case	Description
Use Case Name	Add to cart
Primary Actor	Customer
Goal	To allow the customer to add a product to their shopping cart for future purchase.
Pre-Condition	The customer is browsing products and has access to the "Add to Cart" functionality.
Post-Condition	The product is successfully added to the cart, and the cart's total is updated accordingly.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Customer selects a product and clicks on "Add to Cart".</li> <li>2. System adds the product to the cart and updates the cart icon with the new quantity.</li> <li>3. Customer can continue shopping or view the cart.</li> </ol>
Alternative Flows	If the product is out of stock, the system notifies the customer and prevents adding it to the cart.

### Delete from cart

Use case	Description
Use Case Name	Delete from cart
Primary Actor	User
Goal	To allow the customer to remove an item from their shopping cart.
Pre-Condition	The customer has added products to their cart and is viewing the cart page.
Post-Condition	The selected item is removed from the cart, and the total cost is updated.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Customer views the cart and selects a product to remove.</li> <li>2. Customer clicks the "Remove" button next to the product.</li> <li>3. System removes the product from the cart and updates the cart contents and total.</li> <li>4. Customer can continue shopping or proceed to checkout.</li> </ol>
Alternative Flows	If the customer accidentally tries to remove an item, the system may ask for confirmation before deletion.

### Add/ Update/Delete Products

Use case	Description
Use Case Name	Add/ Update/Delete product
Primary Actor	Manager
Goal	To allow the manager to add a new product to the e-commerce platform.
Pre-Condition	The manager is logged into the admin panel and has access to the "Add Product" functionality.
Post-Condition	The new product is successfully added to the platform and is visible to customers.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Manager navigates to the "Add Product" page in the admin panel.</li> <li>2. Manager enters product details such as name, description, price, category, and images.</li> <li>3. Manager submits the product details.</li> <li>4. System validates the input and adds the product to the inventory.</li> <li>5. Product is successfully listed on the website for customers to view and purchase.</li> </ol>
Alternative Flows	If any mandatory field is missing (price or product name), the system prompts the manager to complete the required fields.

### View orders

Use case	Description
Use Case Name	View orders
Primary Actor	Manager
Goal	To allow the manager to view customer orders and order details in the e-commerce platform.
Pre-Condition	The manager is logged into the admin panel and has access to the orders management section.

Post-Condition	The manager is able to view a list of orders with their details and the status of each order.
Main Success Scenario	<p>Manager logs into the admin panel and navigates to the "Orders" section.</p> <p>2. System displays a list of orders with basic details (order ID, customer name, order date, total amount, order status).</p> <p>3. Manager can click on any order to view detailed information, including customer contact details, product list, shipping address, payment method, and current order status.</p>
Alternative Flows	<p>1. If there are no orders in the system, the system displays a message indicating no orders are available to view.</p> <p>2. If the manager enters invalid filter criteria the system prompts the manager to correct the input.</p>

## 2.4.12 Make Payment

Use case	Description
Use Case Name	Make Payment
Primary Actor	Customer
Goal	To allow the customer to securely make a payment for the items in their shopping cart.
Pre-Condition	The customer has added items to their cart and is ready to proceed to checkout. The customer is logged into their account or browsing as a guest.
Post-Condition	The payment is successfully processed, the order is confirmed, and the customer is provided with a receipt and order details.
Main Success Scenario	<ol style="list-style-type: none"><li>1. Customer reviews the items in the cart and proceeds to checkout.</li><li>2. Customer enters payment details (credit card.) on the payment page.</li><li>3. Customer submits the payment details.</li><li>4. System sends the payment information to the payment system for processing.</li><li>5. Payment system processes the transaction and returns a success response.</li><li>6. System confirms the payment, updates the order status to "Paid," and displays a confirmation page with the order details and receipt.</li></ol>
Alternative Flows	If the payment is declined by the payment system, the system displays an error message and prompts the customer to try a different payment method.

### 2.4.13 Confirm Order

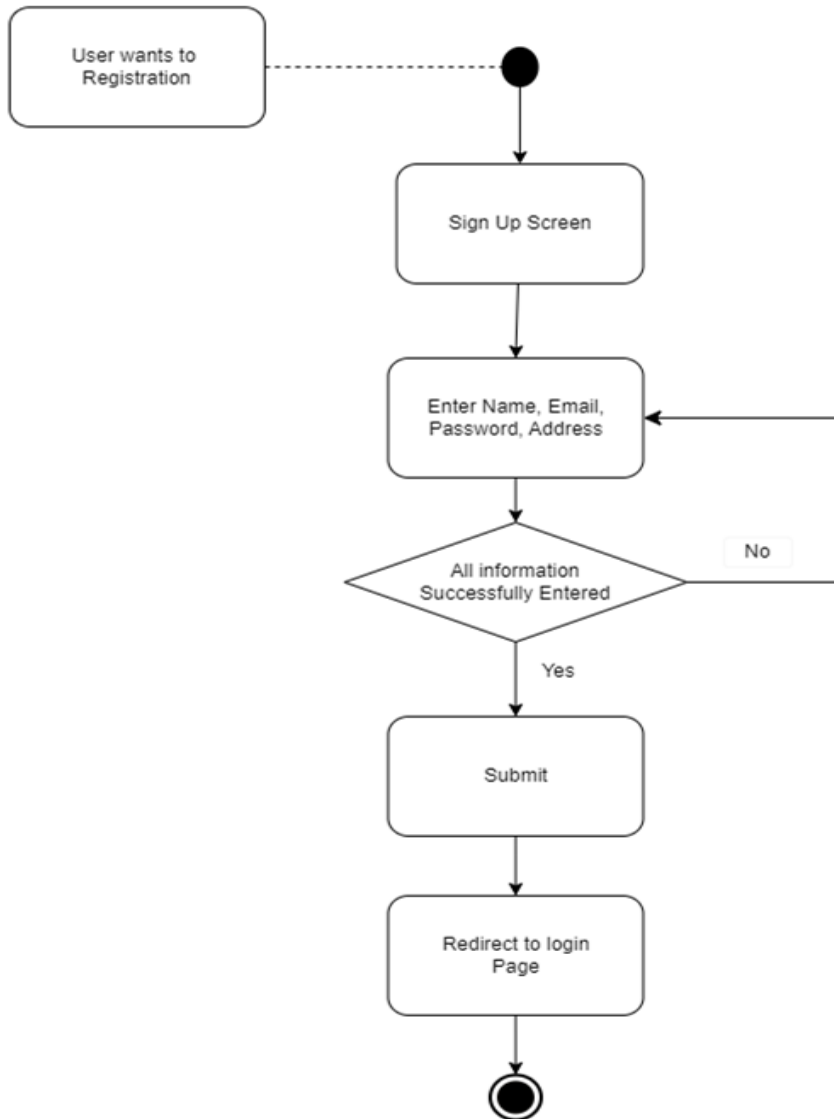
Use case	Description
Use Case Name	Place Order Confirm
Primary Actor	Confirm Order
Goal	Allows the user to complete their purchase of products on the website.
Pre-Condition	The customer has added items to the cart, entered shipping information, and is ready to review and confirm the order.
Post-Condition	The order is successfully confirmed, and the customer is redirected to the payment page to complete the purchase.
Main Success Scenario	<ol style="list-style-type: none"><li>1. Customer reviews the cart and shipping information on the order summary page.</li><li>2. Customer confirms that all details (items, quantity, shipping address, payment method) are correct.</li><li>3. Customer clicks the "Confirm Order" button.</li><li>4. System processes the confirmation and updates the order status to "Confirmed."</li><li>5. System redirects the customer to the payment page to proceed with the payment.</li></ol>
Alternative Flows	<ol style="list-style-type: none"><li>1. If the customer notices an error in the order details (wrong item, incorrect shipping address), the customer can modify the order before confirming it.</li></ol>

### 2.4.14 Order, Sales, and Product Report:

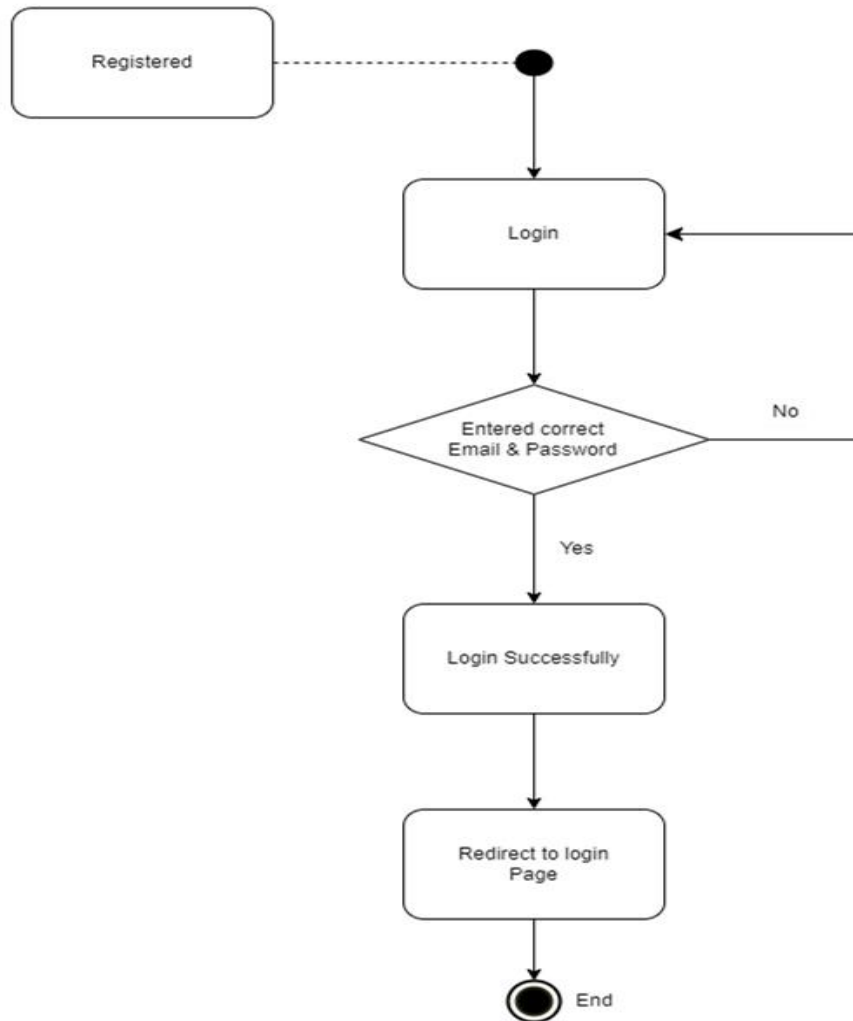
Use case	Description
Use Case Name	Add/ Update/Delete product
Primary Actor	Admin
Goal	To allow the admin to generate and view reports for orders, sales, and product details for business insights and performance tracking.
Pre-Condition	The admin is logged into the admin panel and has access to the reporting section.
Post-Condition	The admin successfully views or downloads the requested reports with detailed order, sales, or product data.
Main Success Scenario	<ol style="list-style-type: none"> <li>1. Admin navigates to the "Reports" section of the admin panel.</li> <li>2. Admin selects the type of report they want to generate (Order Report, Sales Report, or Product Report).</li> <li>3. Admin specifies any filters (date range, product category, sales region).</li> <li>4. Admin clicks "Generate Report."</li> <li>5. System processes the request and displays the report on the screen or provides a downloadable file (PDF.).</li> <li>6. Admin reviews the report for insights (total sales, top-selling products, order statuses).</li> </ol>
Alternative Flows	<ol style="list-style-type: none"> <li>1. If the admin selects an invalid filter or date range, the system prompts them to correct the input.</li> </ol>

### 2.4.3 Activity Diagram

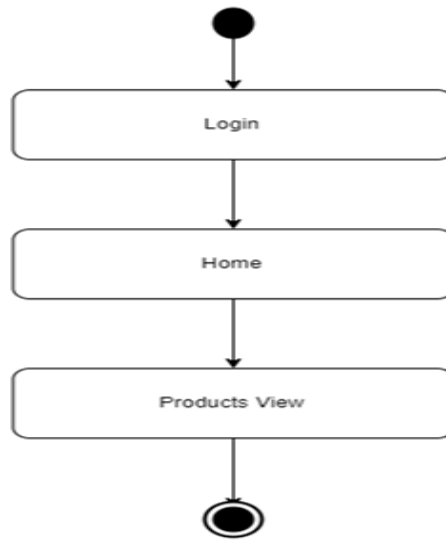
#### Registration



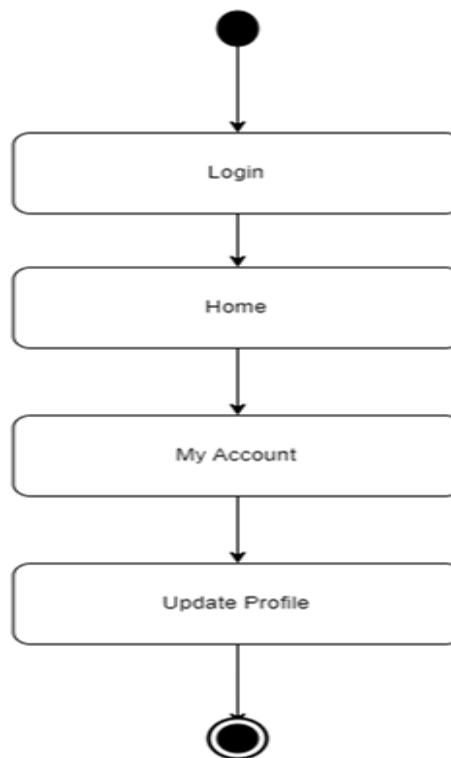
## Login:



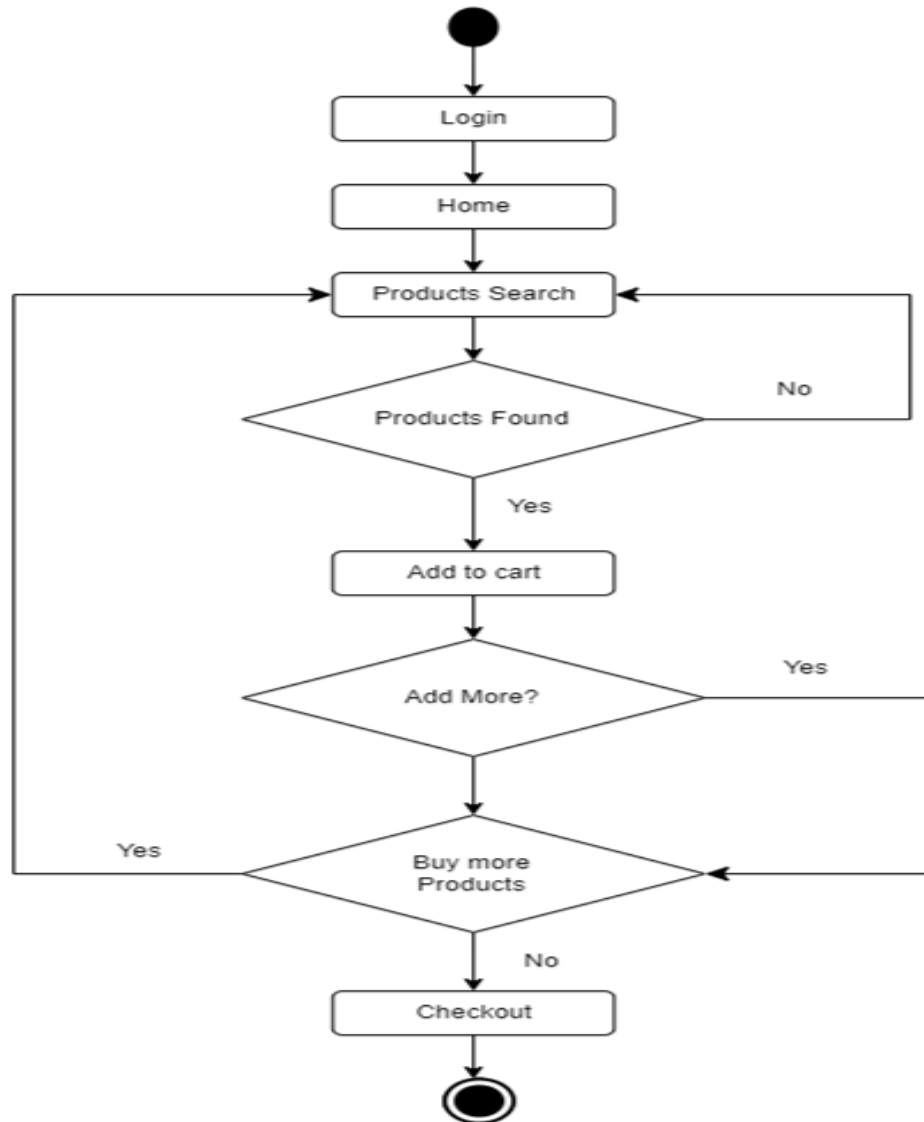
**View Products:**



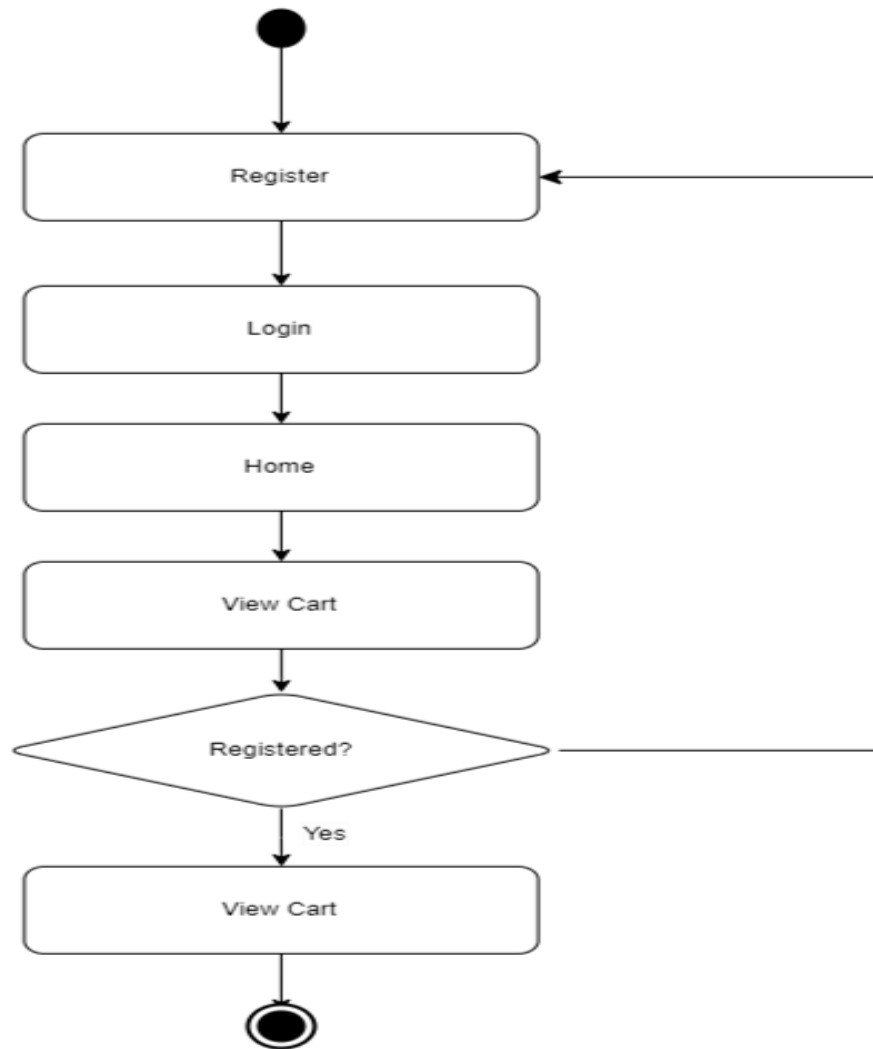
**Update Profile:**



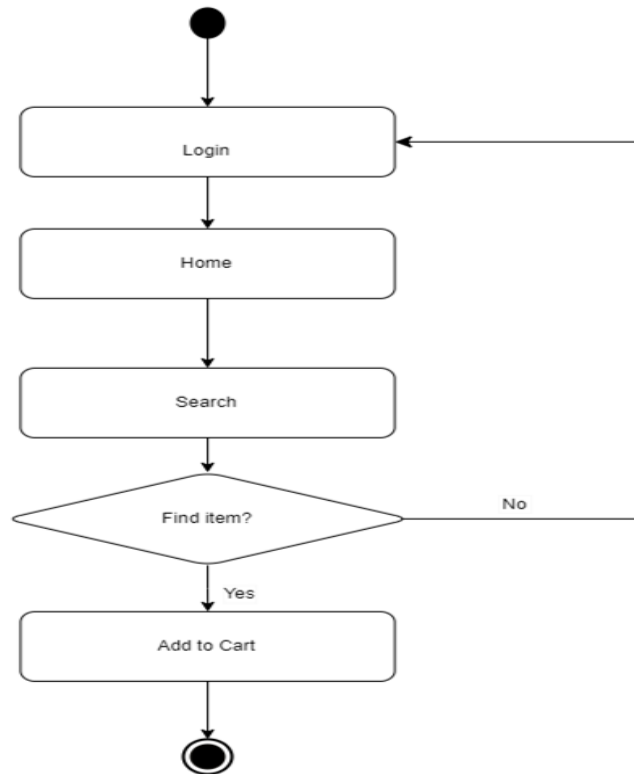
Search Product:



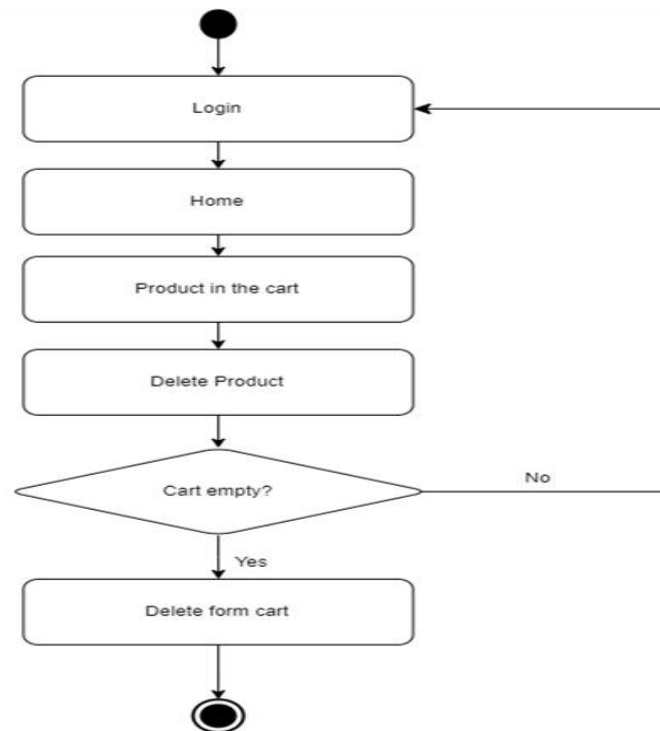
**View Cart:**



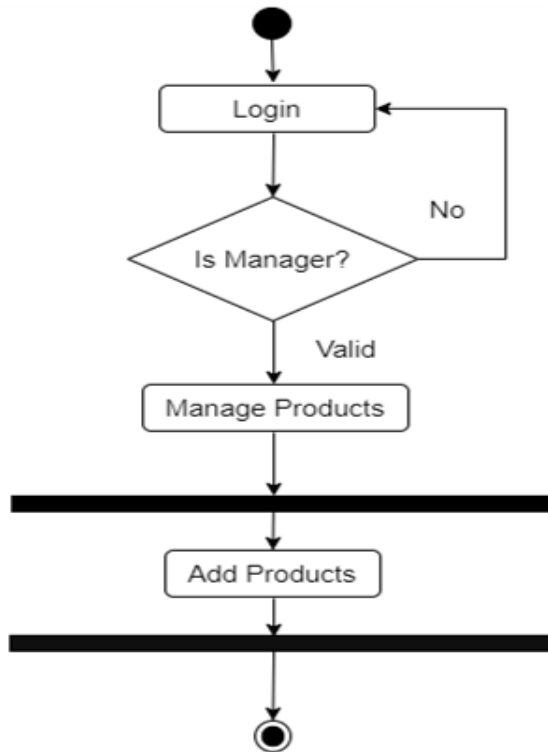
### Add to Cart:



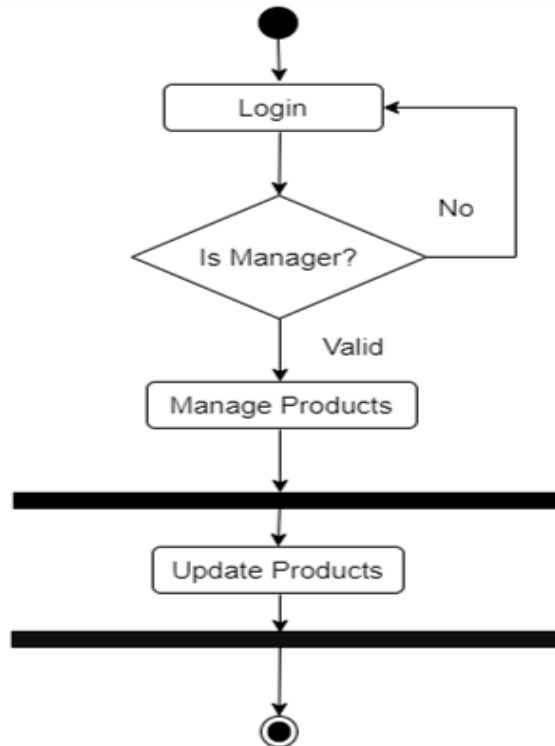
### Delete from Cart:



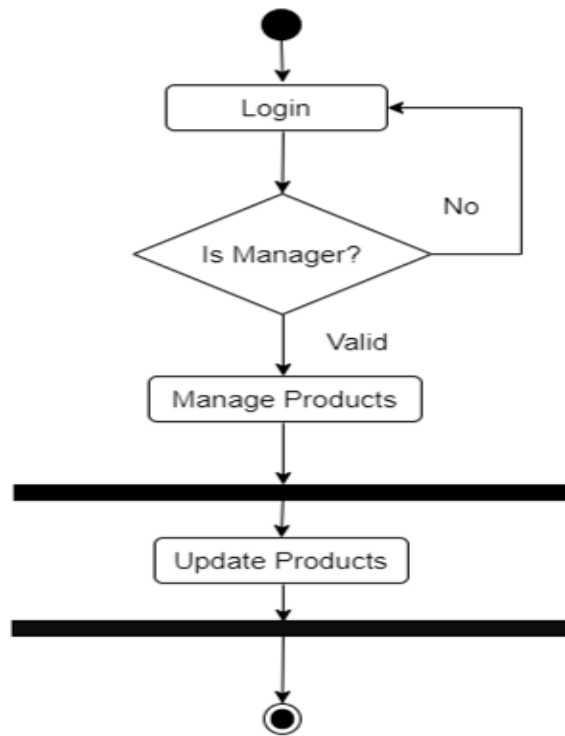
**Add Products:**



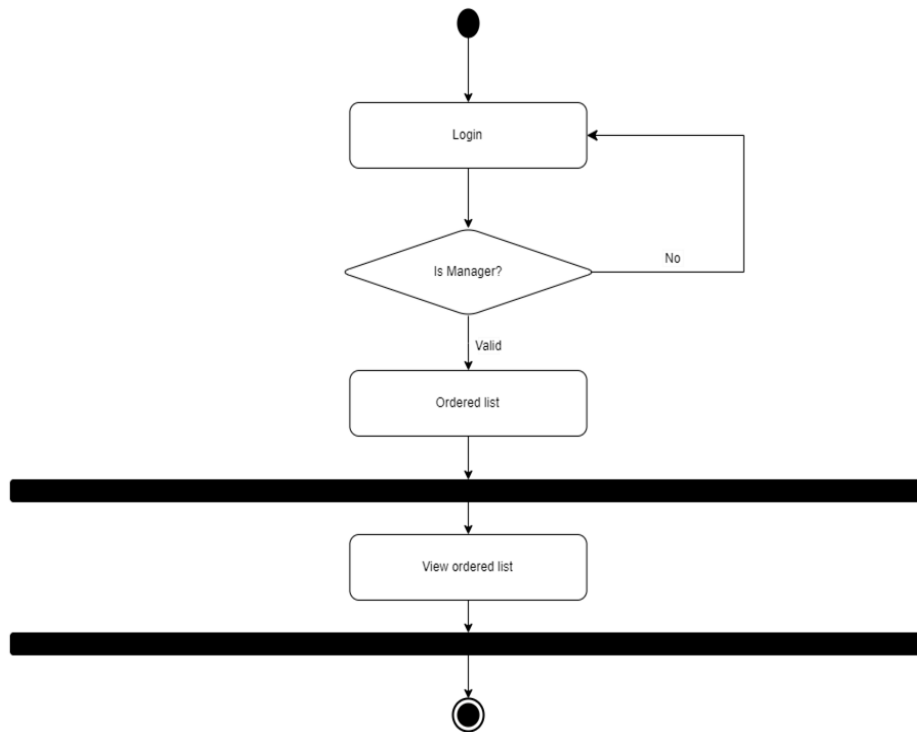
**Update Products:**



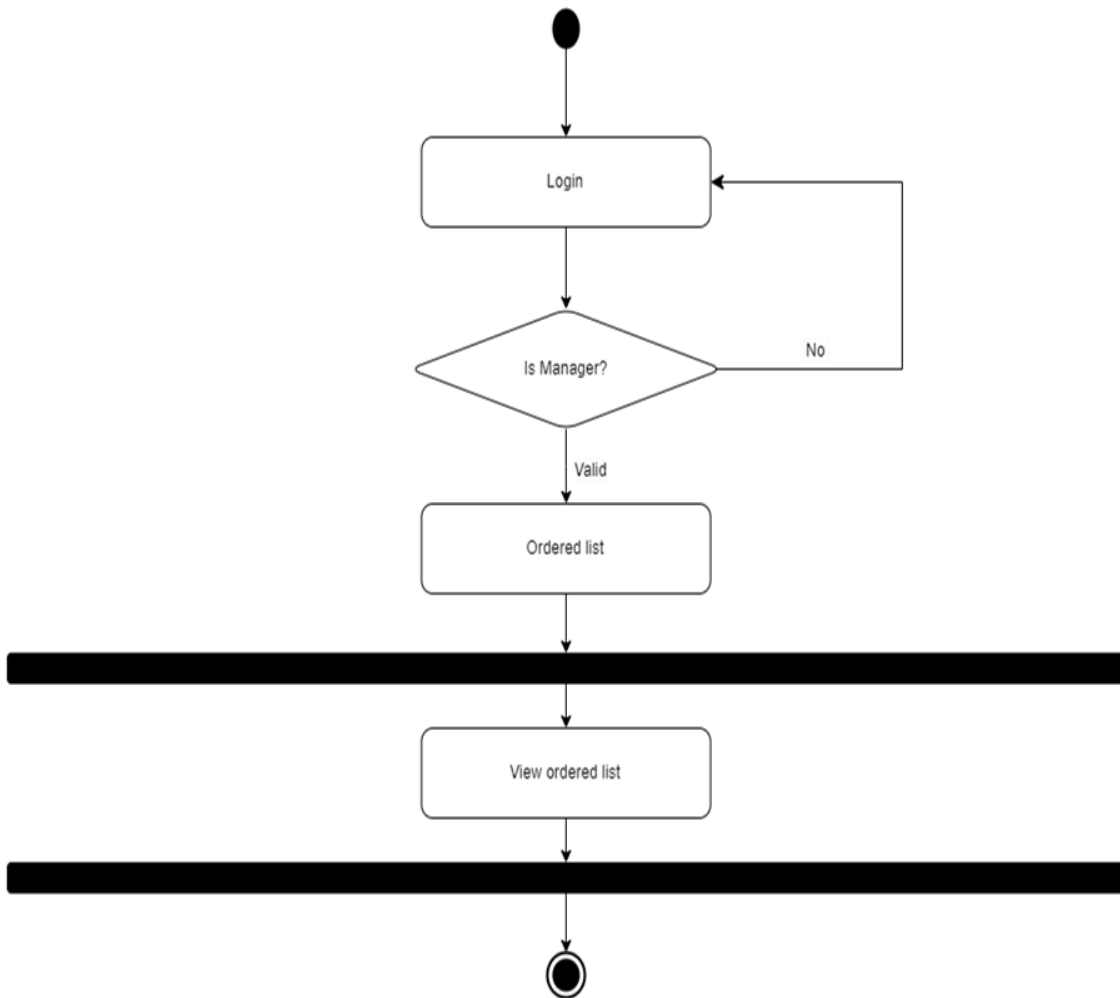
**Delete Products:**



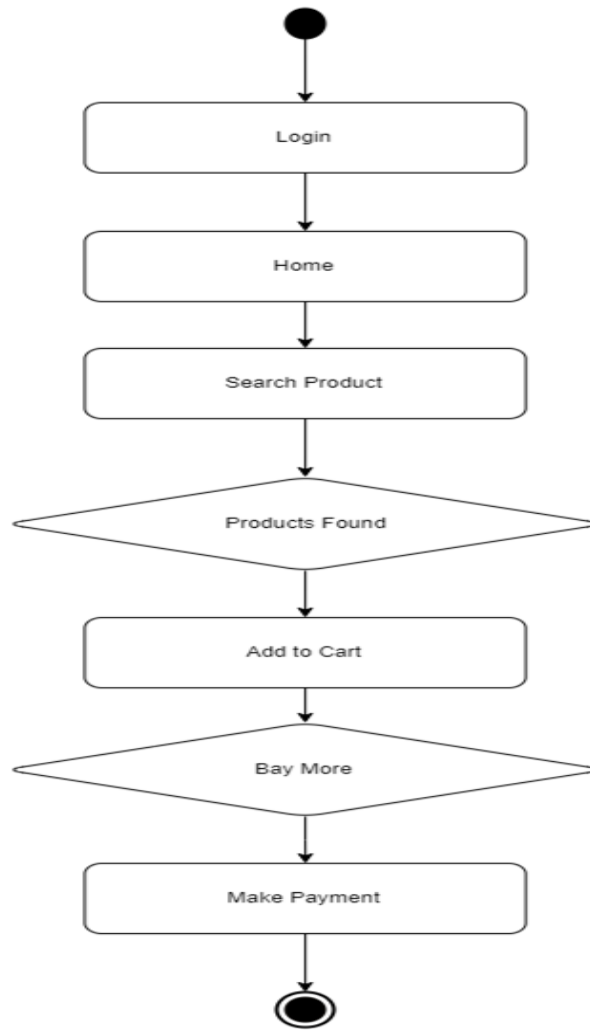
**View user list:**



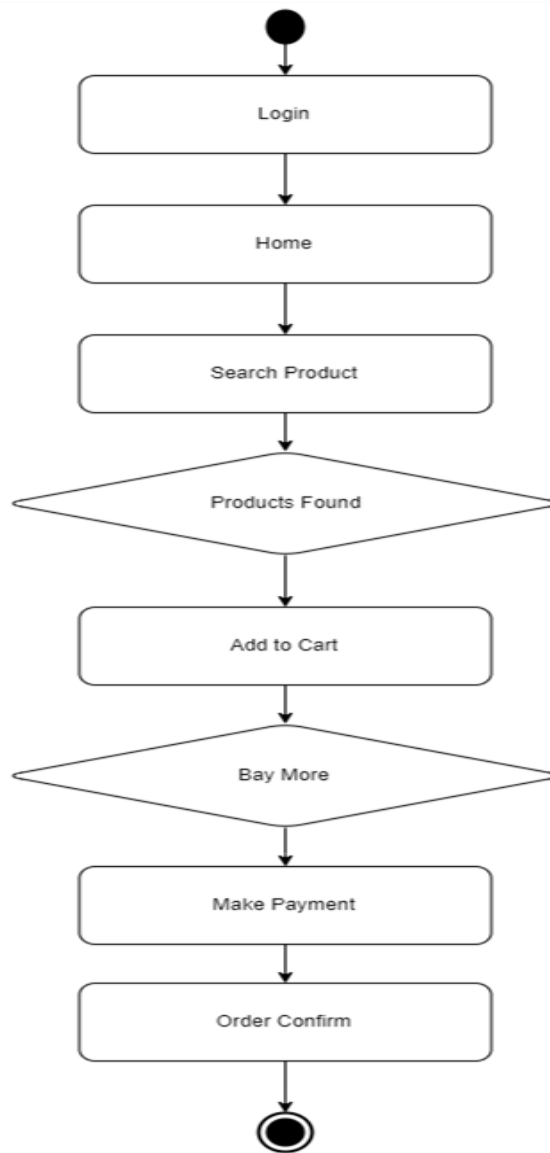
**View Orders:**



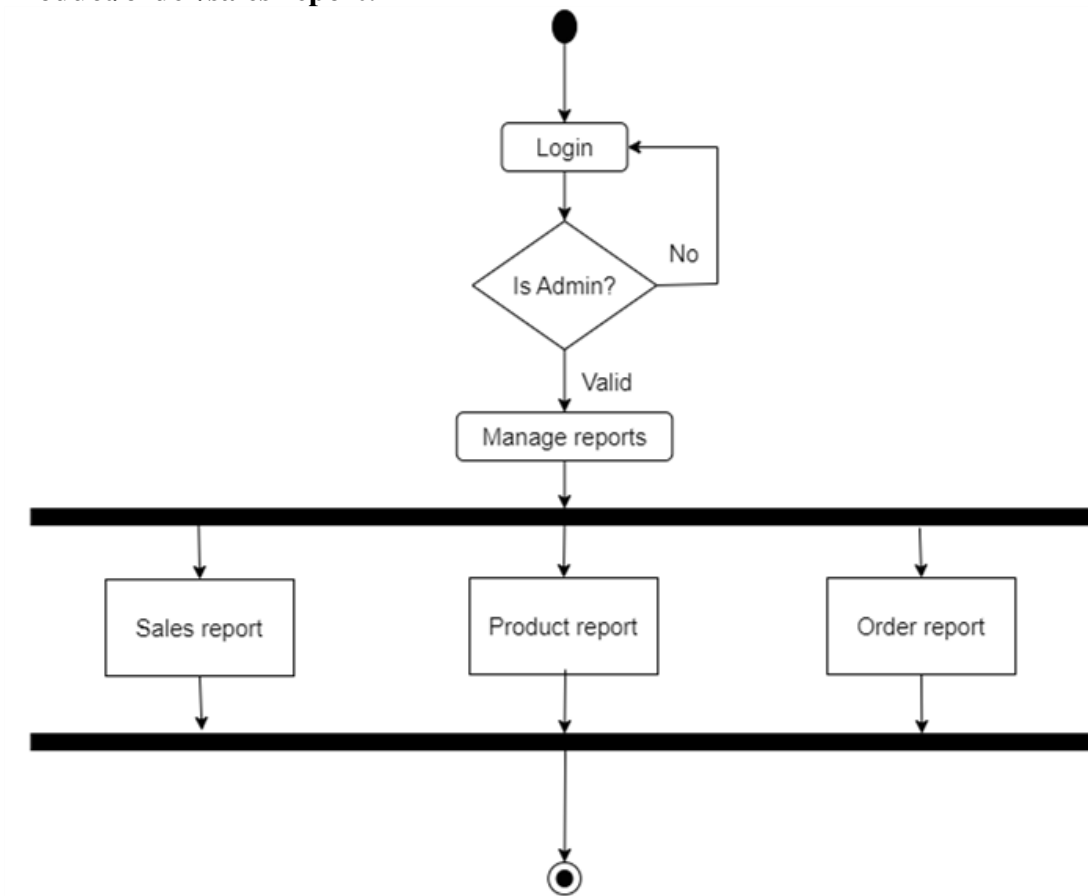
**Make Payment:**



**Place order:**

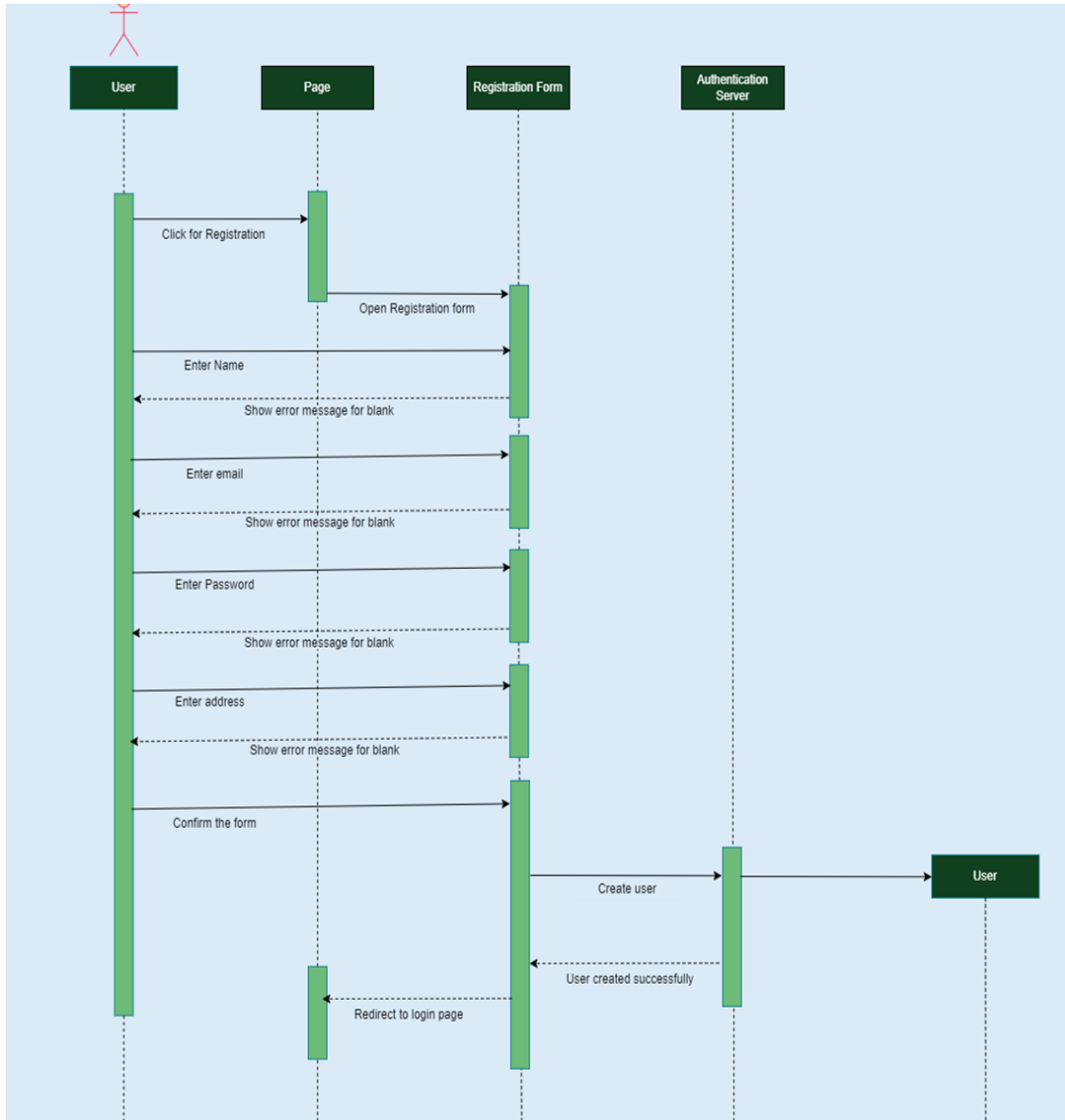


**Product/order/sales report:**

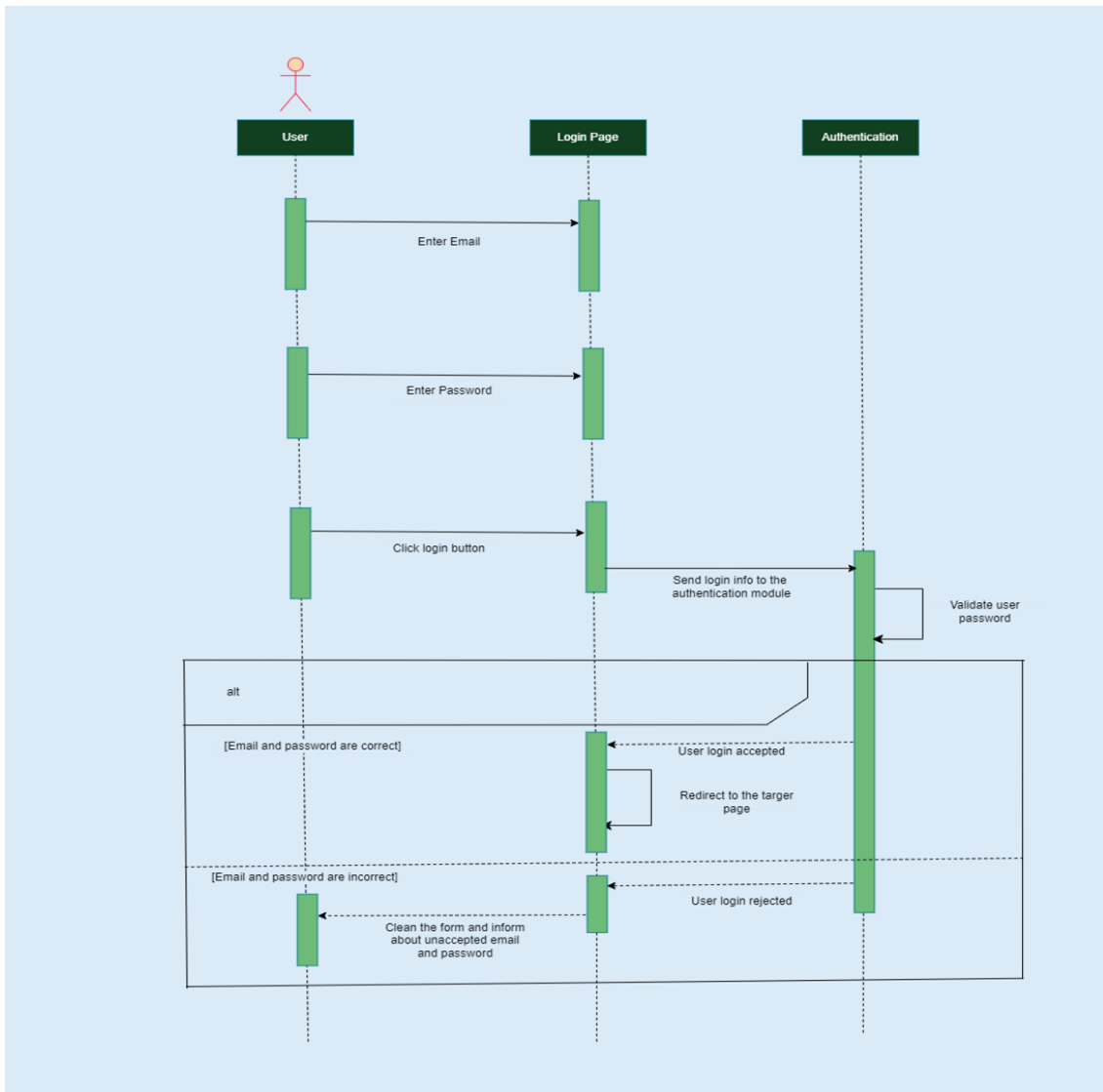


## 2.4.4 Sequence Diagram

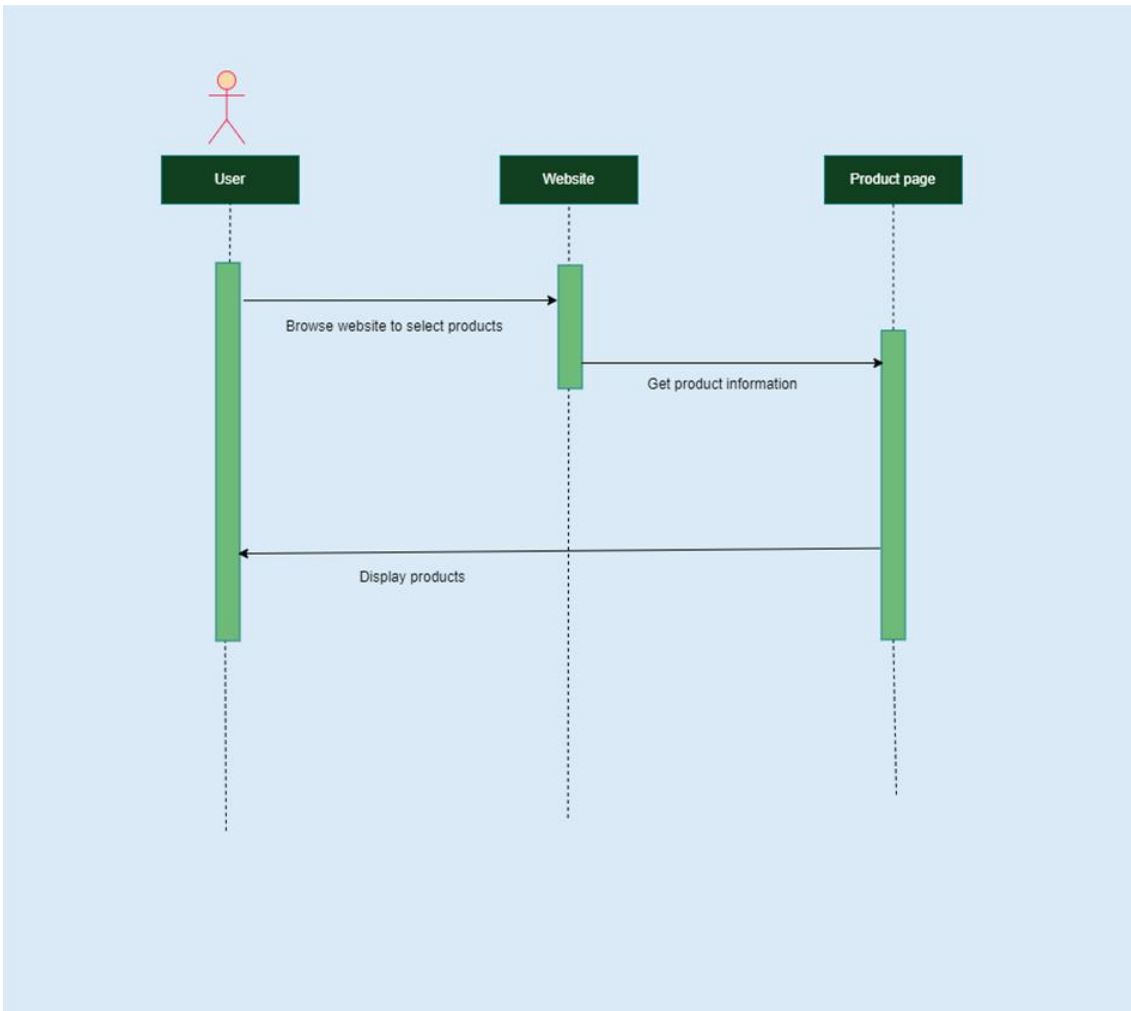
Registration:



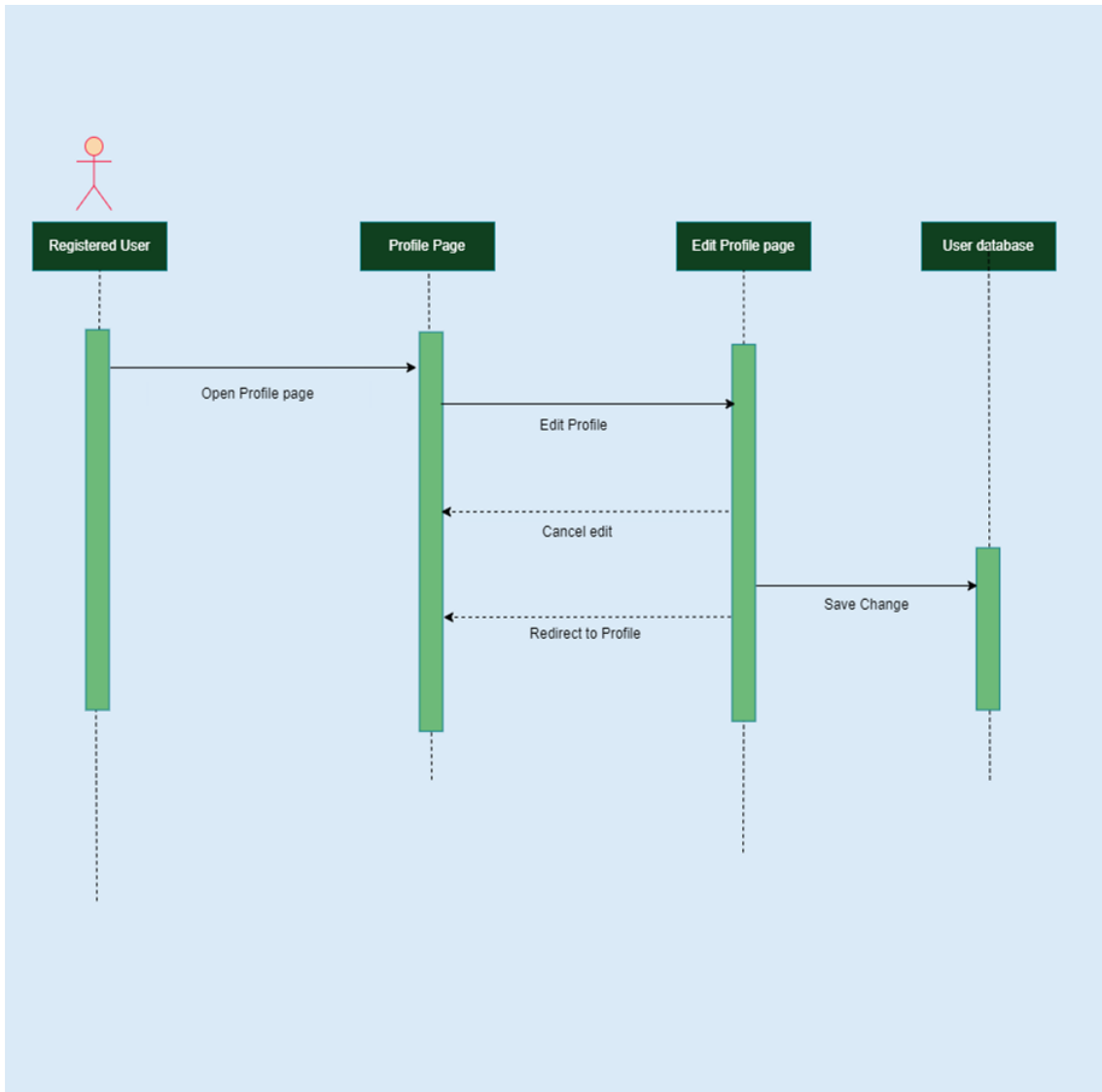
## Log in:



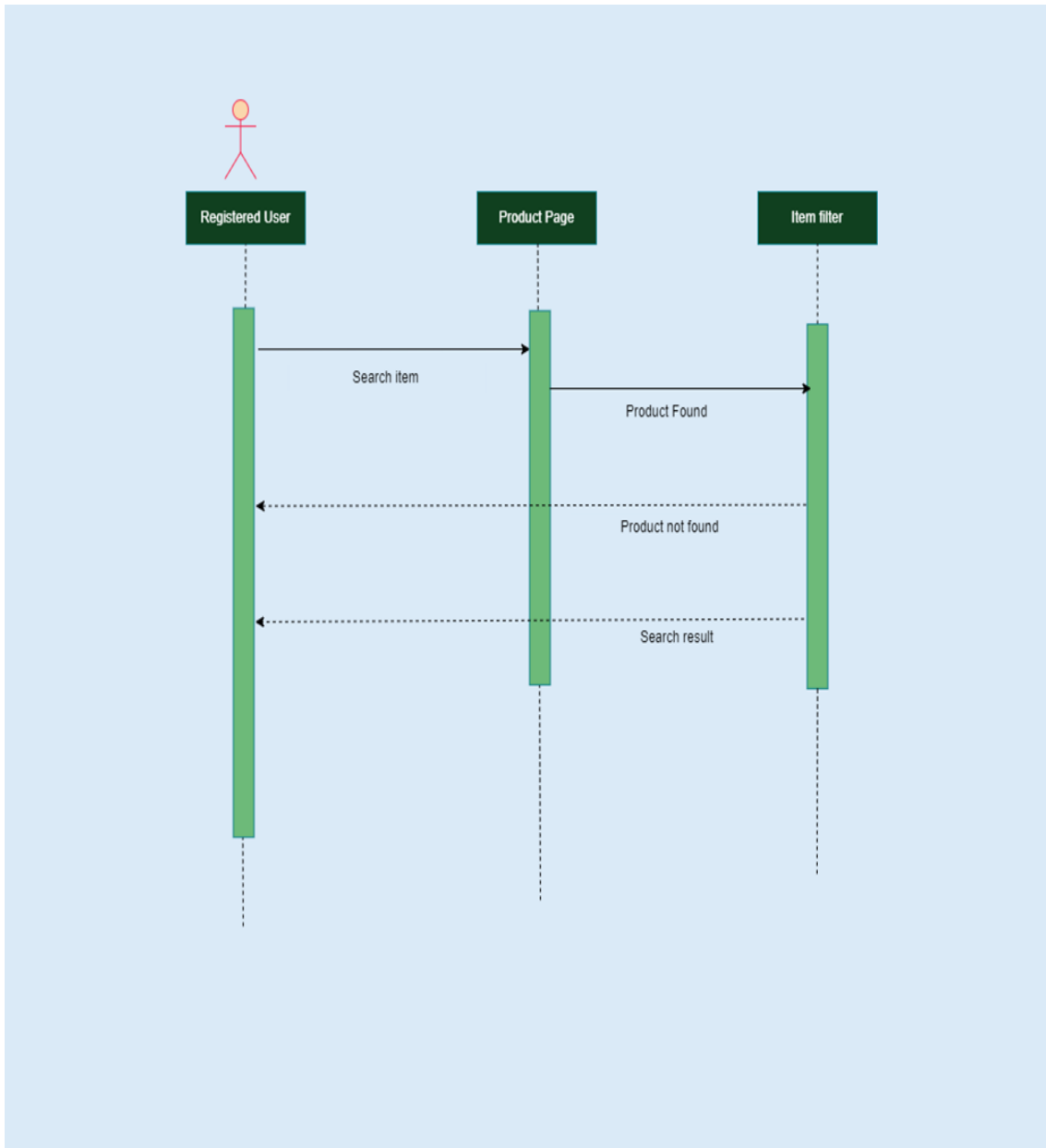
## View Products:



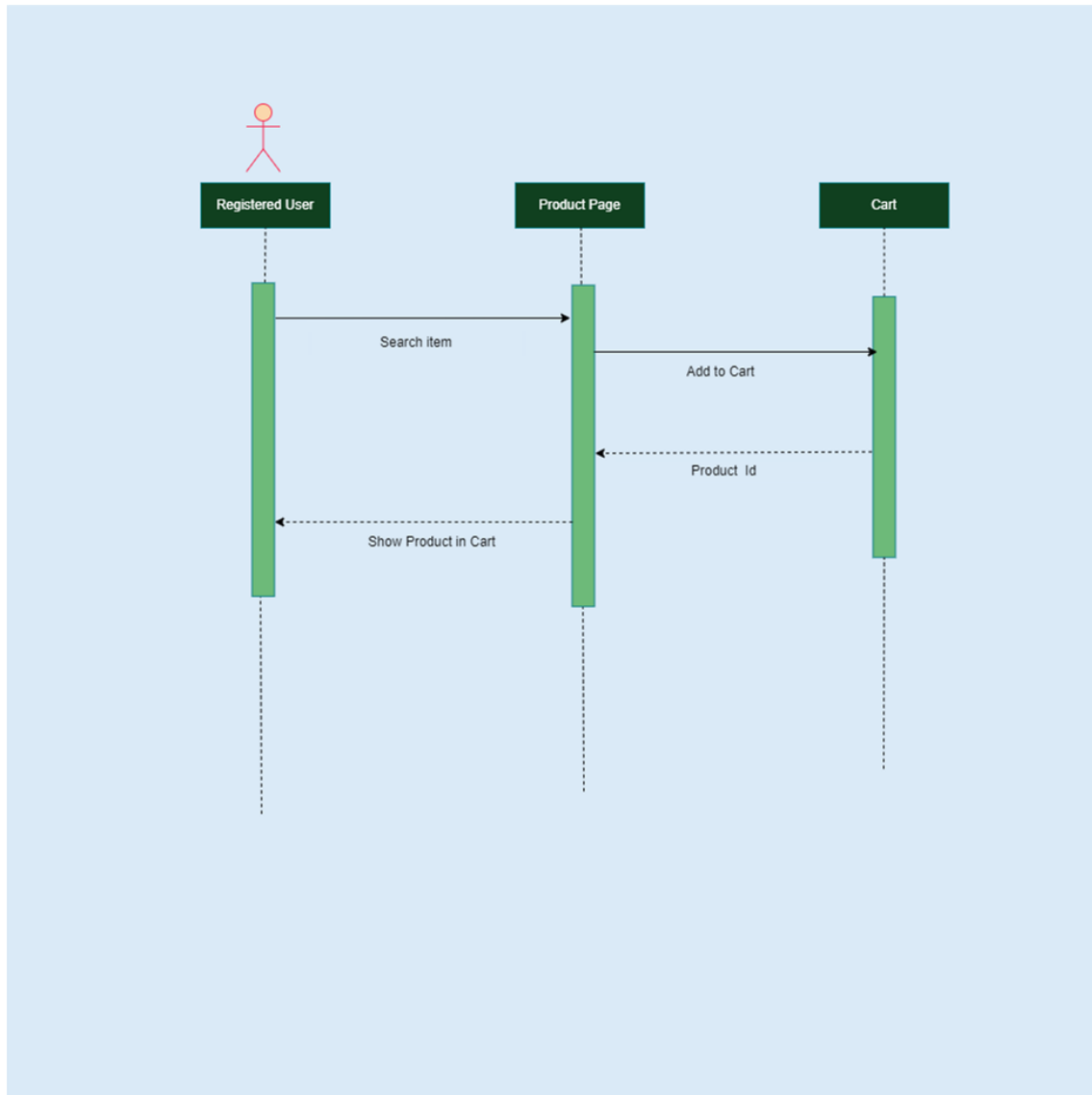
## Update Profile:



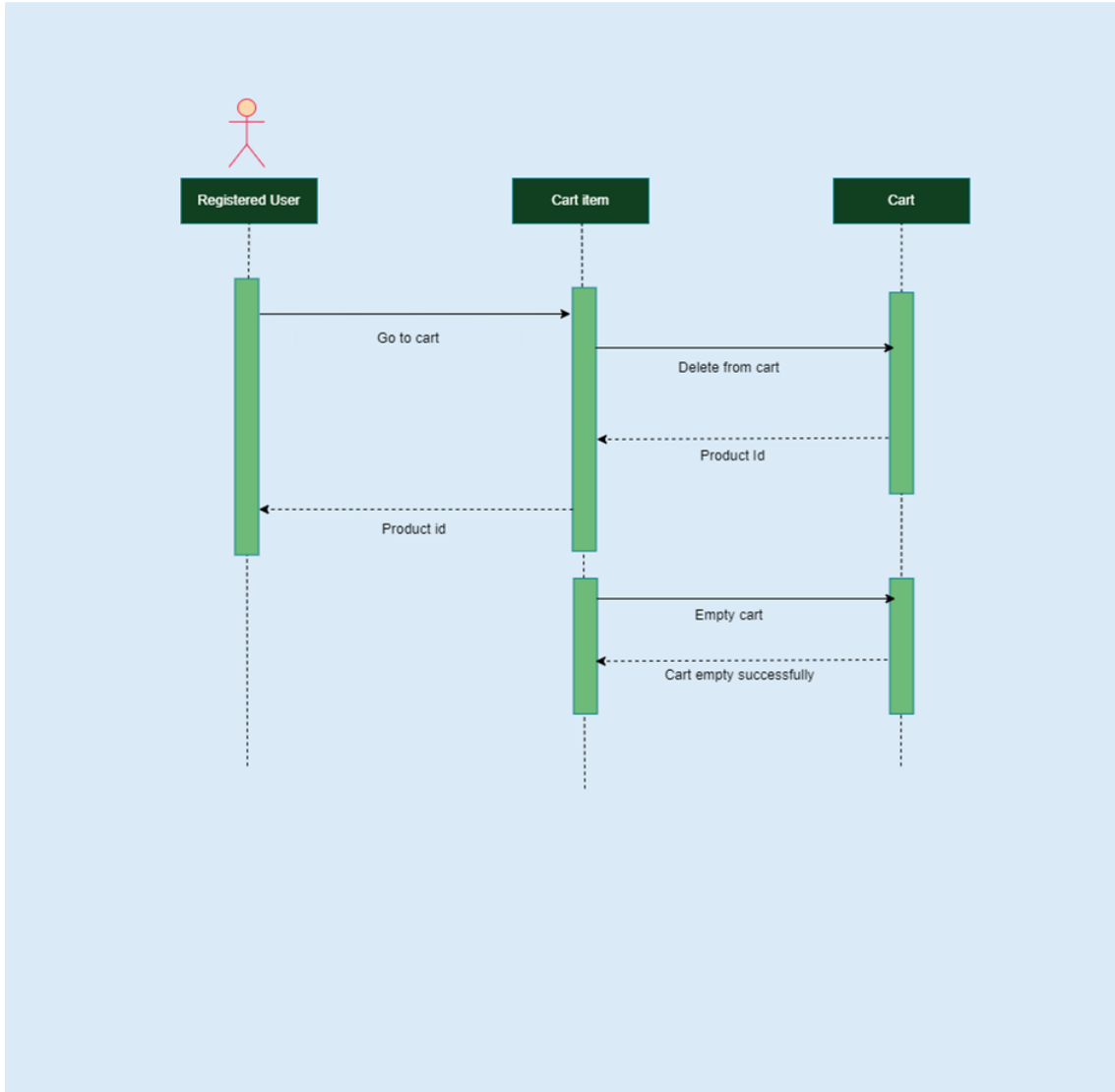
## Search Products:



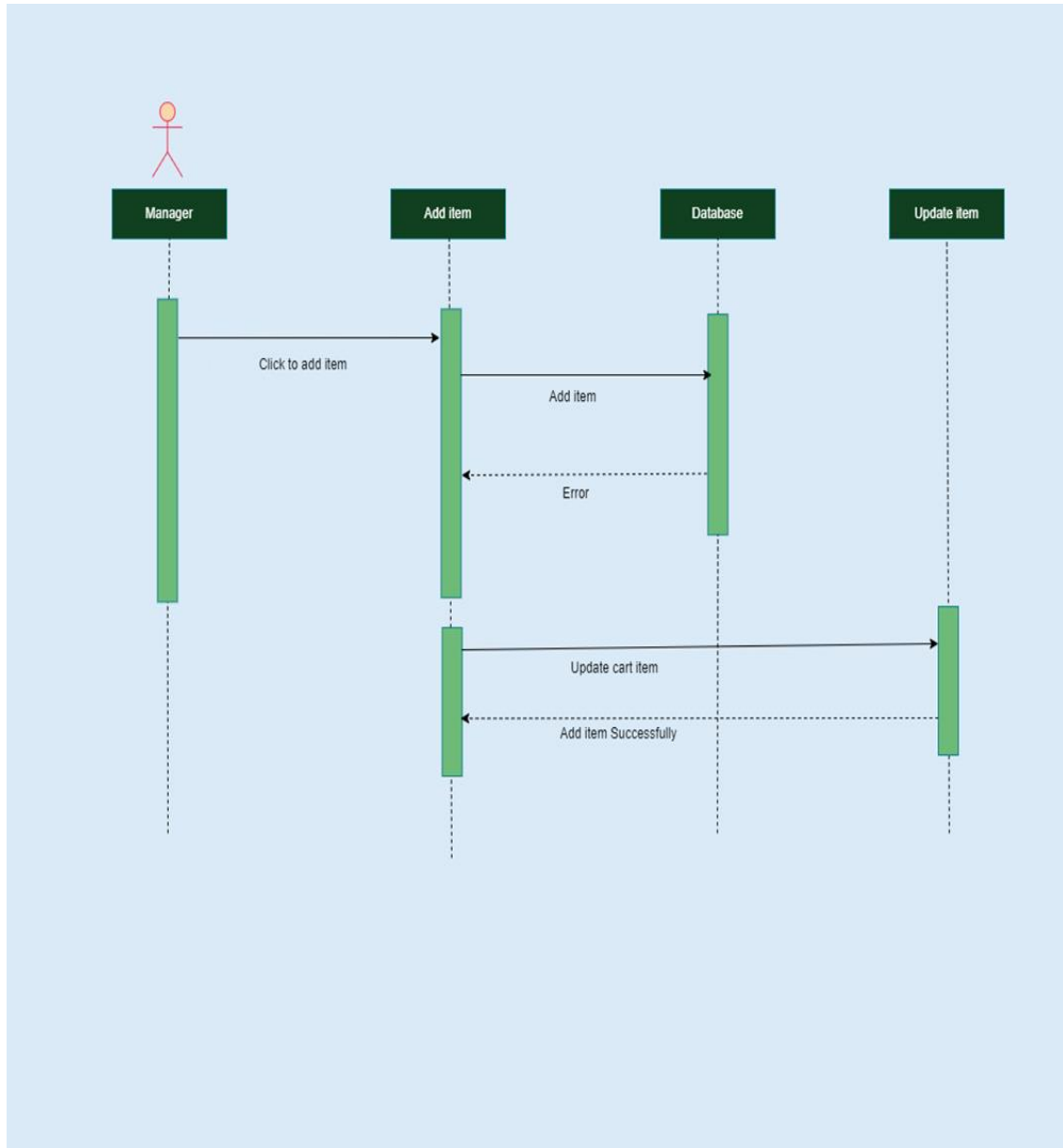
## Add to Cart:



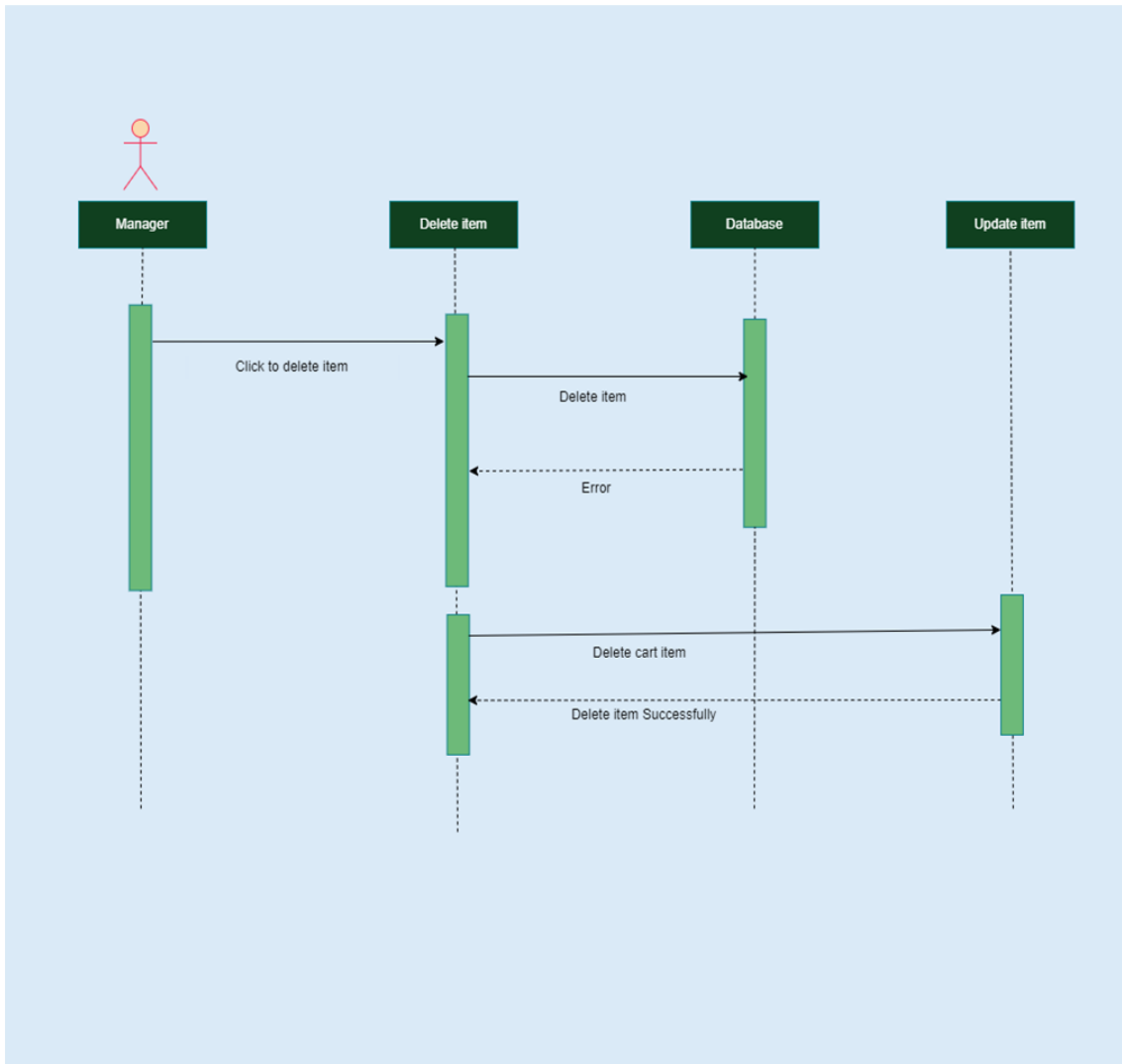
## Delete from Cart:



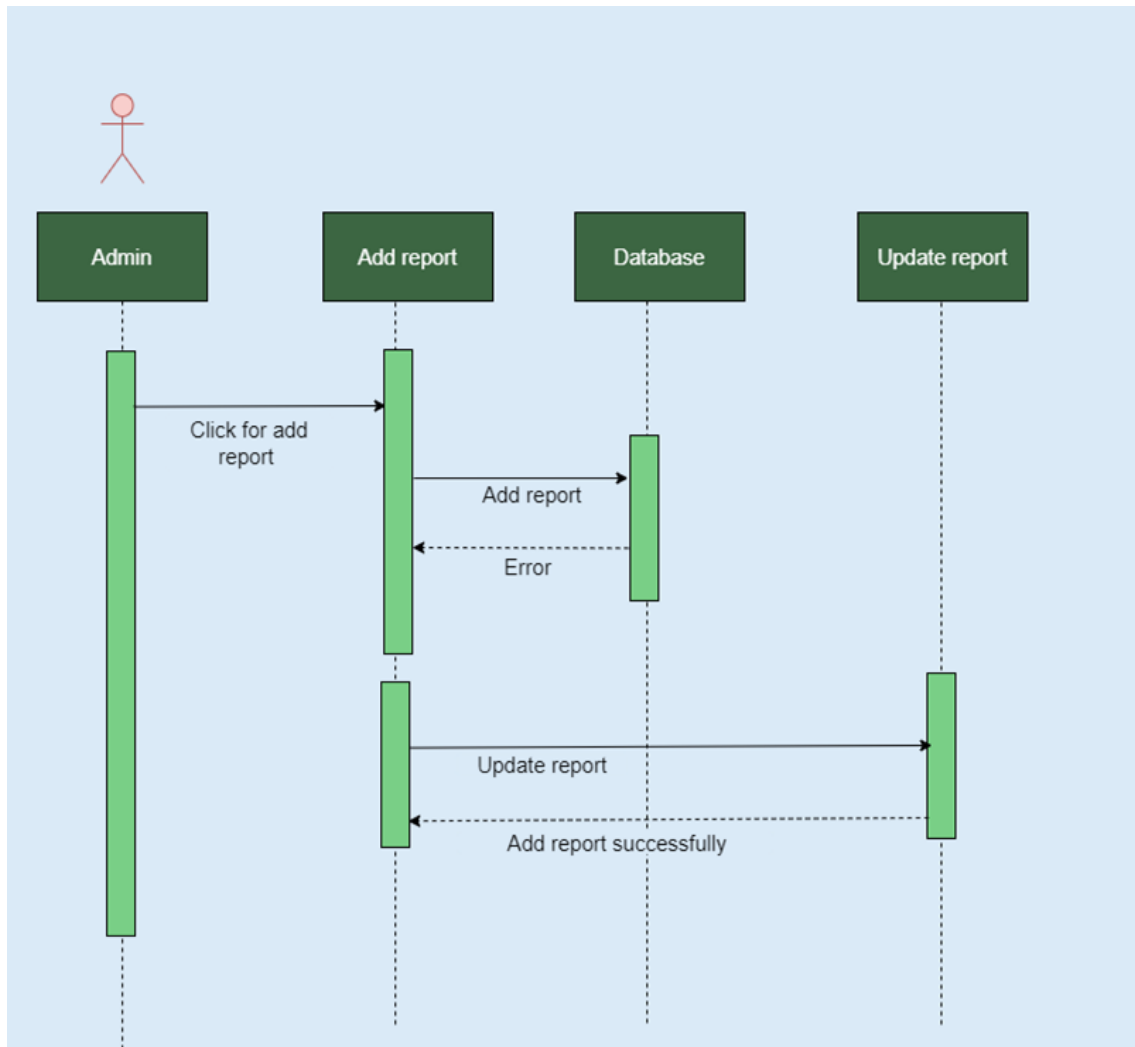
### Add/update/products:



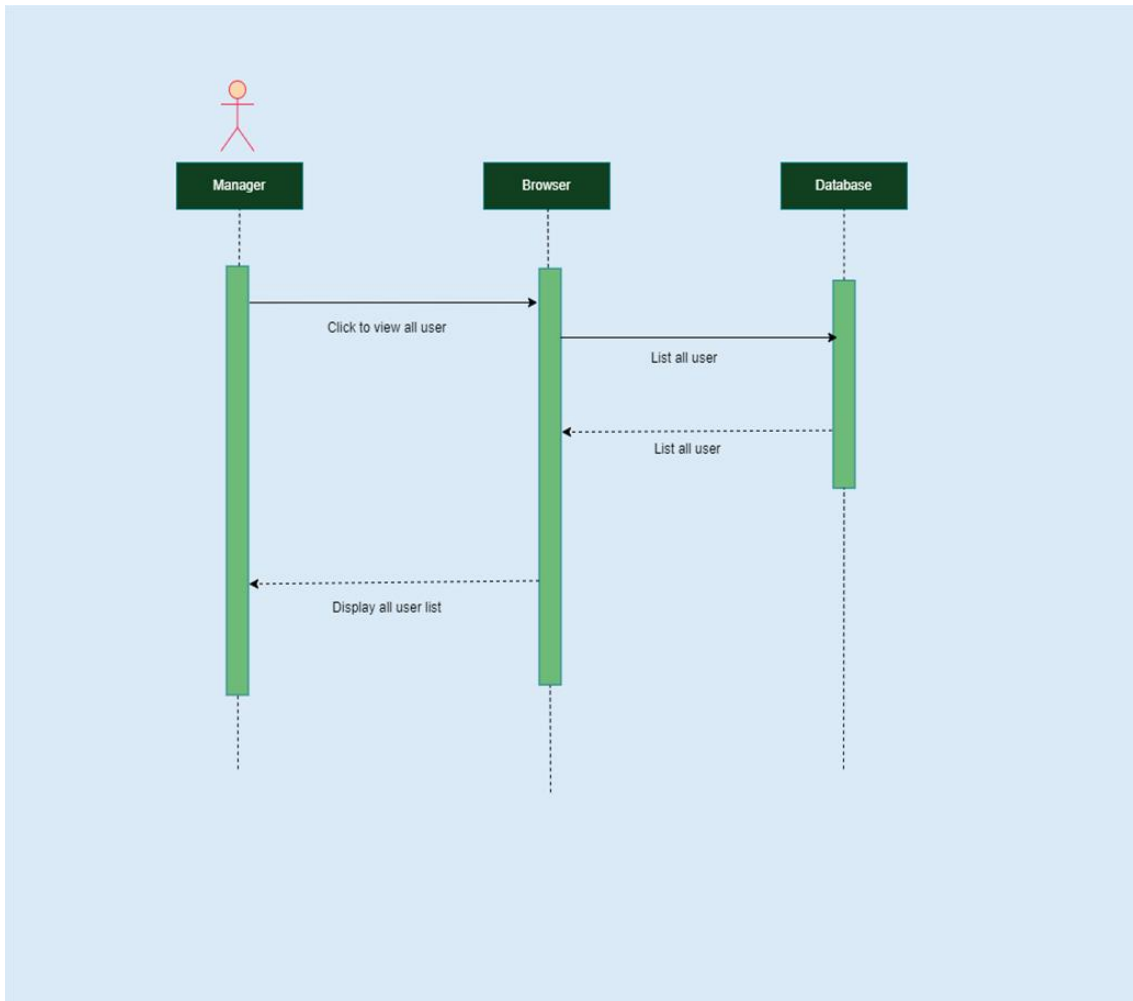
## Delete products:



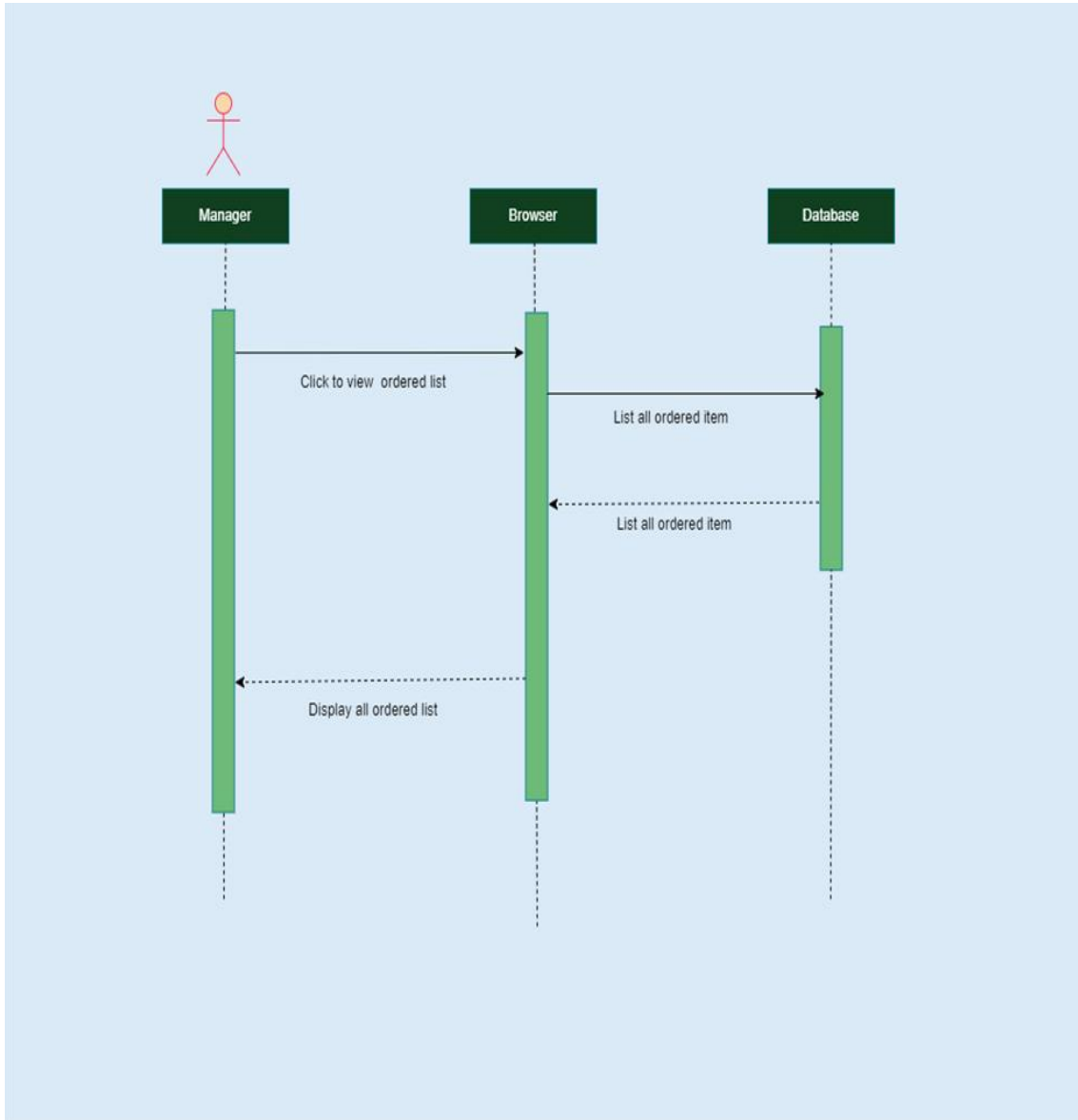
## Product/order/sales report:



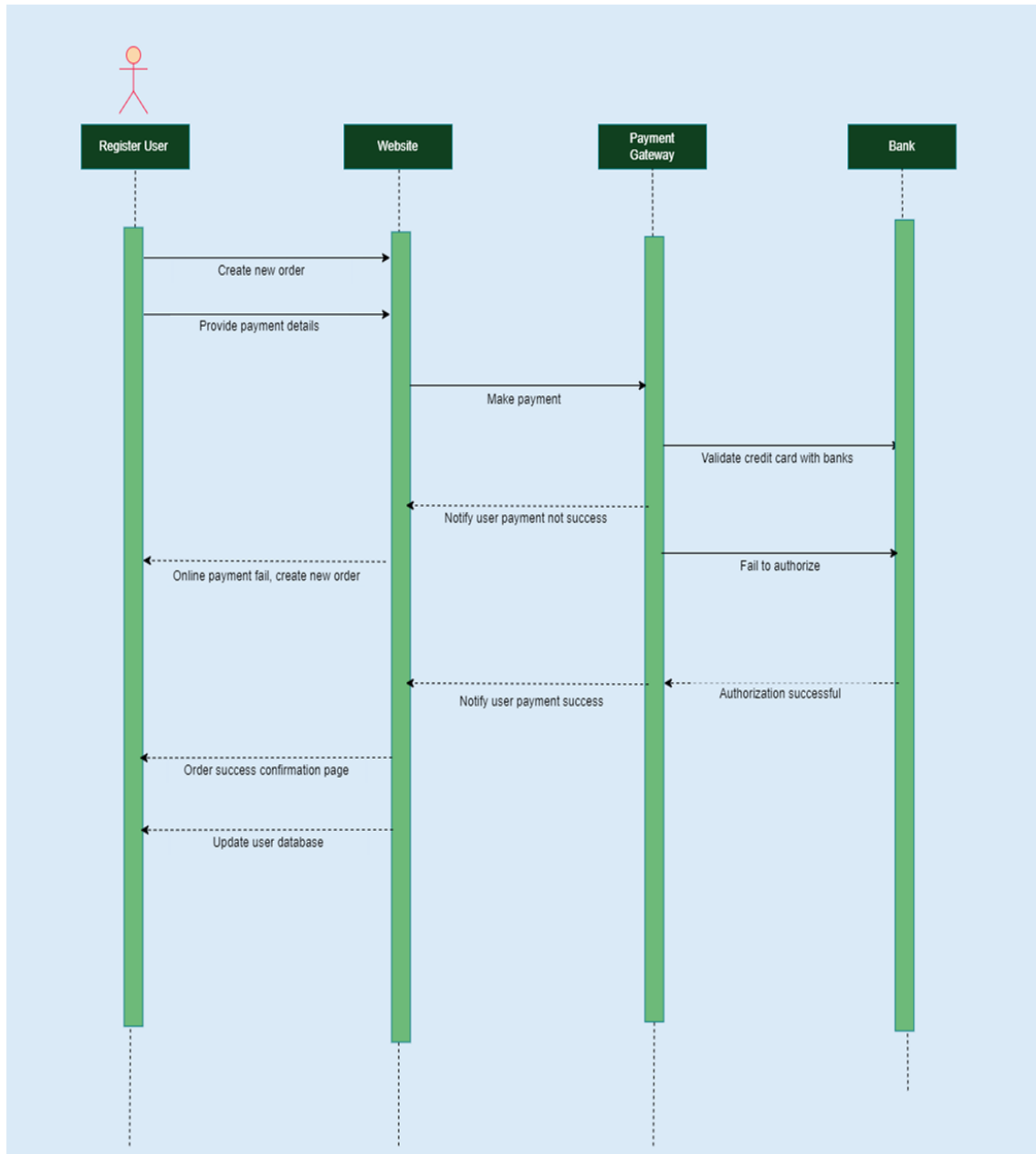
**View user list:**



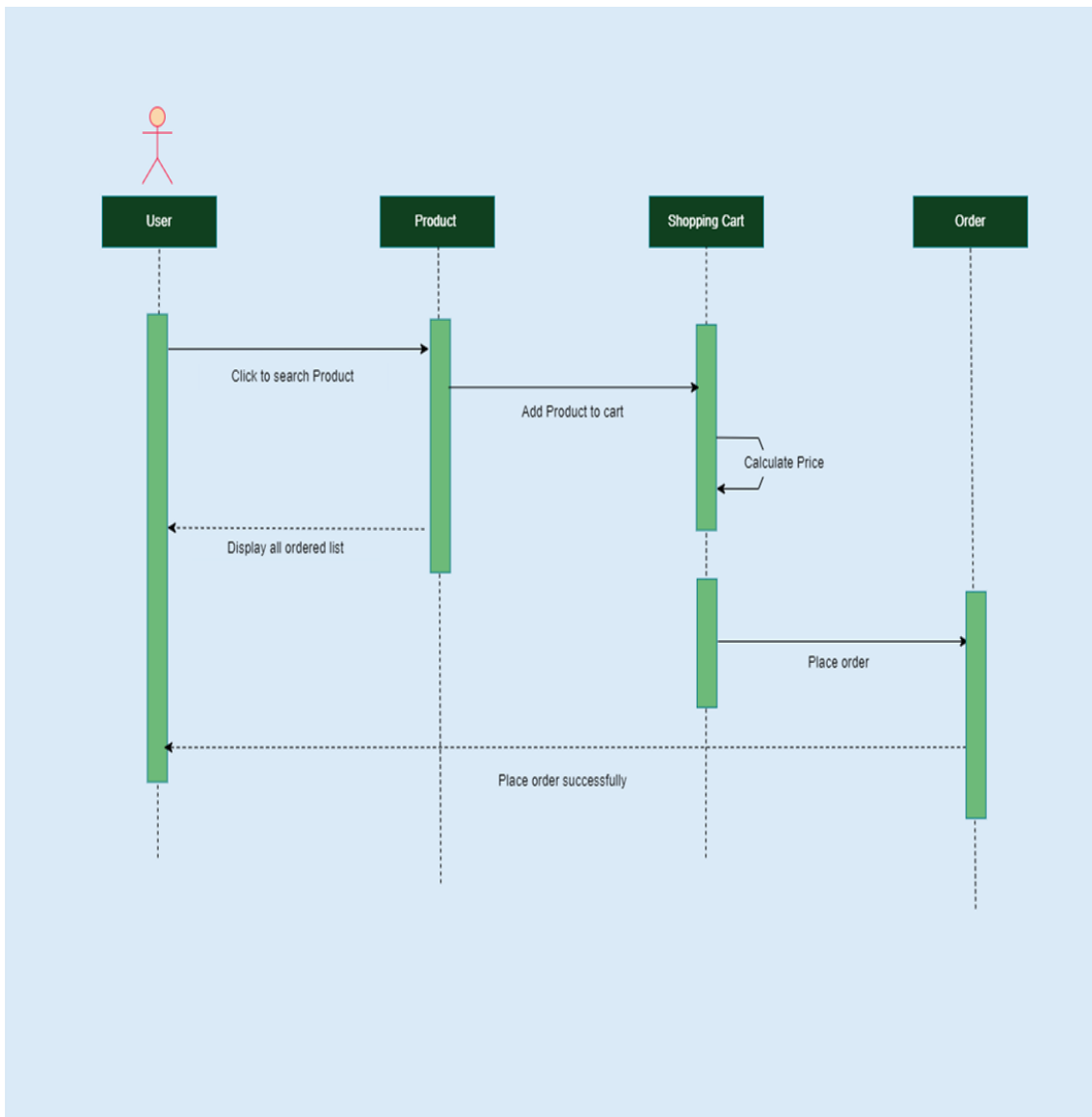
**View ordered list:**



## Make Payment:



## Place Order:



## 2.4.5 ER Diagram

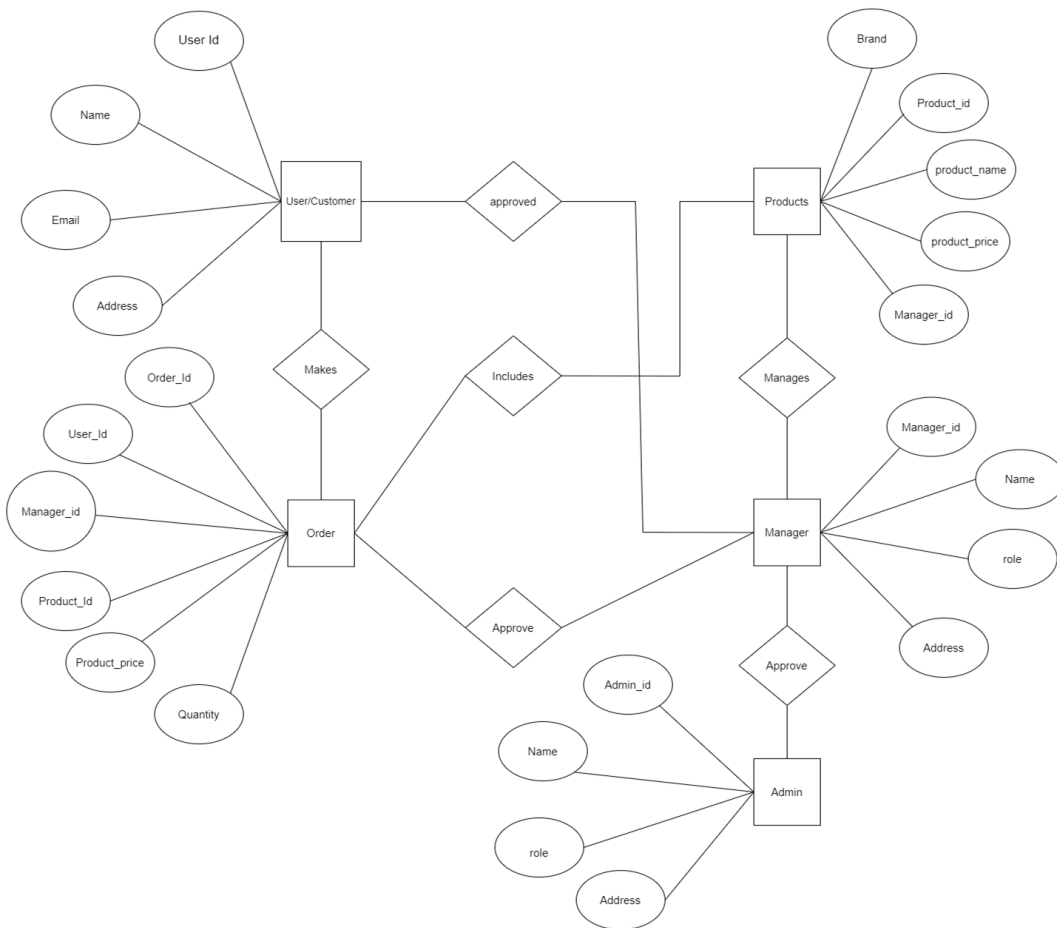


Figure 2.7: ER Diagram

# Chapter 3 Software Testing

## 3.1 Introduction

Software testing is the process of evaluating a software application to ensure it functions as intended and meets quality standards. It identifies defects, ensures reliability, and improves user satisfaction by validating the software's performance against requirements.

## 3.2 Testing Features

Software testing has several key features that ensure the delivery of high-quality software. It helps detect and fix bugs, ensuring the software functions as expected. Testing validates the performance, reliability, and scalability of the application under different conditions. It also focuses on usability, ensuring the software is user-friendly and meets customer needs.

### 3.2.1 Feature to Be Tested

Features	Priority	Description
Log in	1	Ensures smooth and secure account creation, login, logout, and password recovery processes.
Registration	1	Ensures smooth and secure account creation, login, logout, and password recovery processes
Search Product	2	Verifies accurate search results, filters, sorting, and search suggestions.
View Product	3	Checks product descriptions, images, reviews, specifications, and availability.
Confirm Order	1	Validates address entry, payment methods, order summary, and confirmation flow.
Make Payment	1	Ensures secure and successful transactions with various payment options (credit cards, wallets, etc.)
Order Management	1	Tests order tracking, order history, cancellations, and refunds functionality.
Update Products	2	Manager update product easily and wright proper description.

### 3.2.2 Testing Strategies

### 3.2.3 Test Strategies

To maintain system quality, two primary testing methods are utilized: black box testing and white box testing.

- **Black Box Testing:** In black box testing, the tester is unaware of the internal workings of the system, focusing solely on evaluating the software's outputs based on different inputs. This type of testing is also referred to as functional or behavioral testing, as it examines the system's functionality from the user's perspective.
- **White Box Testing:** White box testing, also known as clear box testing, involves testing the internal logic, structure, and code of the software. It ensures the flow of inputs through the system and helps in improving areas such as design, usability, and security by directly analyzing the software's internal components.

### 3.2.3 Testing Schedule

Test Phase	Time
Create Test Plan	2 Week
Unit Testing	During Development
Component Testing	During Development
User Interface Testing	2Week
Performance Testing	1Week
Accessibility Test	1Week

## 3.2 Test Cases

### 3.1.1 Test Case for Registration

Test Case 01	Case Name: The registration panel testing
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the registration process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the register button.	Required Message	Required Message	Pass
2	Enter the name, password, phone number, address, pet name, and an incorrect email.	Error Message	No Required Message	Fail
3	Enter a valid email, leaving the name, password, phone number, address, and pet name fields blank.	Error Message	No Required Message	Fail
4	Enter a valid name, password, phone number, address, pet name, and email.	Registered	User Registered Successfully	Pass

### 3.1.2 Test Case for Login

Test Case 02	Case Name: The login panel testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the login process.	

<b>Steps</b>	<b>Action</b>	<b>Action Result</b>	<b>Expected System Response</b>	<b>Pass/Fail</b>
<b>1</b>	Select the login button.	Required Message	Required Message	Pass
<b>2</b>	Enter a valid email and an incorrect password.	Error Message	No Required Message	Fail
<b>3</b>	Leave the email and password fields blank.	Error Message	No Required Message	Fail
<b>4</b>	Enter a valid email and password.	Login	Login Successfully	Pass

### 3.1.3 Test Case for Update Profile

Test Case 03	Case Name: The update profile panel Testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the profile update process.	

<b>Steps</b>	<b>Action</b>	<b>Action Result</b>	<b>Expected System Response</b>	<b>Pass/Fail</b>
<b>1</b>	Select the login button.	Required Message	Required Message	Pass
<b>2</b>	Enter a valid email and an incorrect password.	Required Message	Required Message	Pass
<b>3</b>	Leave the email and password fields blank.	Error Message	No Required Message	Fail

### 3.1.4 Test Case for View Orders

Test Case 04	Case Name: The view orders panel testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the view order process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the login button.	Required Message	Required Message	Pass
2	Continue without logging in.	Required Message	No Required Message	Fail

### 3.1.5 Test Case for Confirm Order

Test Case 05	Case Name: The place order panel testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the Confirm order process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the login button.	Required Message	Required Message	Pass
2	Continue without logging in.	Please Login to continue	No Required Message	Fail

### 3.1.6 Test Case for Make Payment

Test Case 06	Case Name: Testing the make payment panel testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the make payment process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the login button.	Required Message	Required Message	Pass
2	Continue without logging in.	Please Login to continue	No Required Message	Fail

### 3.1.7 Test Case for Update Products

Test Case 08	Case Name: The update product panel testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the update product process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the login button.	Required Message	Required Message	Pass
2	Continue without logging in.	Redirect to Home Page	No Required Message	Fail
3	Select on Update Product	Product Updated Successfully	No Required Message	Password

### 3.1.8 Test Case for Create Products

Test Case 11	Case Name: Testing the Create Products panel testing
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the create products process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the login button.	Required Message	Required Message	Pass
2	Continue without logging in.	Redirect to Home Page	No Required Message	Fail
3	Select the Create Product button without entering a name, description, price, quantity, shipping details, or selecting a category.	Error Message	No Required Message	Fail
4	Select the Create Product button after entering all the required information.	Required Message	Required Message	Pass

### 3.1.9 Test Case for Manage Users

Test Case 12	Case Name: Testing the manage users panel testing.
Designed By: Md. Moniruzzaman	Design date: 20.11.24
Executed By: Md. Moniruzzaman	Execute Date: 20.11.24
Short Description: This case handles the manage users process.	

Steps	Action	Action Result	Expected System Response	Pass/Fail
1	Select the login button.	Required Message	Required Message	Pass
2	Proceed without Login	Redirect to Home Page	No Required Message	Fail
3	Select on users to see all users.	No Required Message	No Required Message	Pass

### 3.5 Summary

Software testing is a critical process that involves evaluating a software application to ensure it works as intended, is free of defects, and meets user requirements. It helps improve software quality, reliability, and performance. Testing can be manual or automated, and it plays a key role in preventing issues before the software is released to users. Ultimately, software testing ensures that the final product delivers a positive user experience and meets industry standards.

## Chapter 4 Deployment and Maintenance

## 4.1 Introduction

Deployment and Maintenance are critical stages in the lifecycle of e-commerce projects, ensuring a seamless launch and sustained performance post-launch.

Deployment involves preparing and launching the platform in a live environment, including server setup, domain configuration, final testing, and making the site accessible to users. Maintenance focuses on keeping the platform secure, updated, and functional, with activities like bug fixes, feature updates, security enhancements, and performance monitoring. These phases ensure the e-commerce platform remains reliable, user-friendly, and scalable to meet growing business and customer needs.

# Chapter 5 User Manual

## 5.1 User Registration:

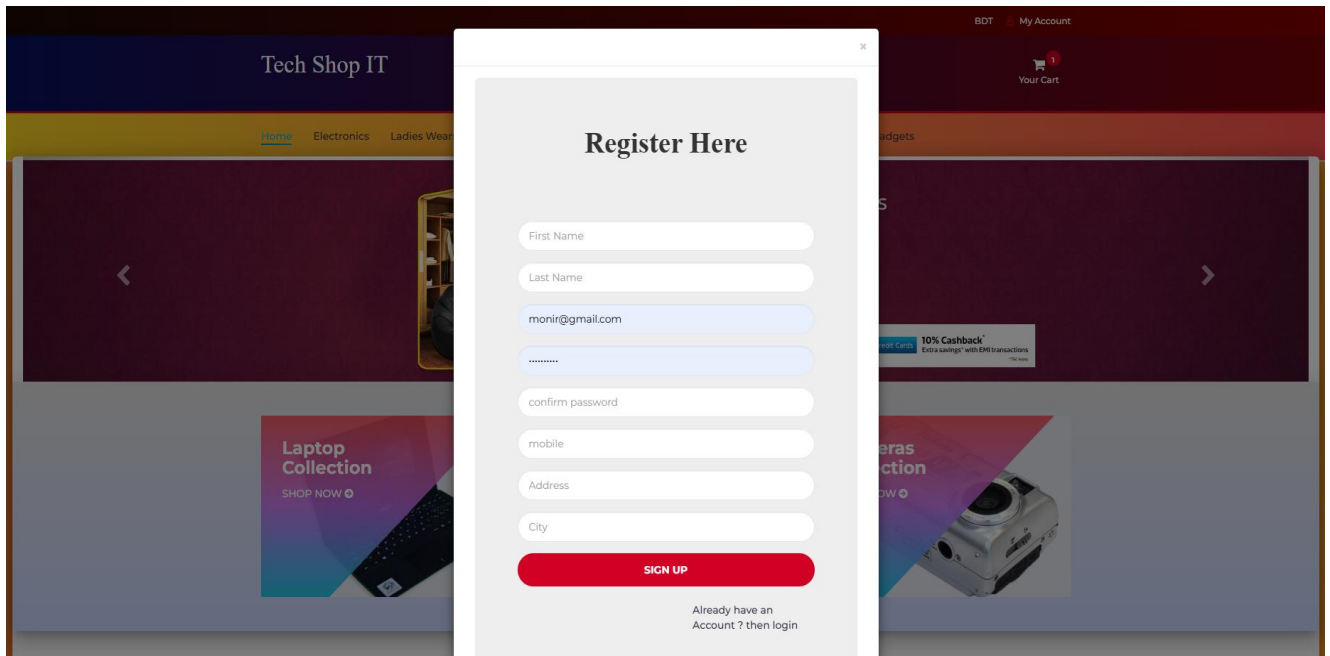


Figure 5.1

## 5.2 Login:

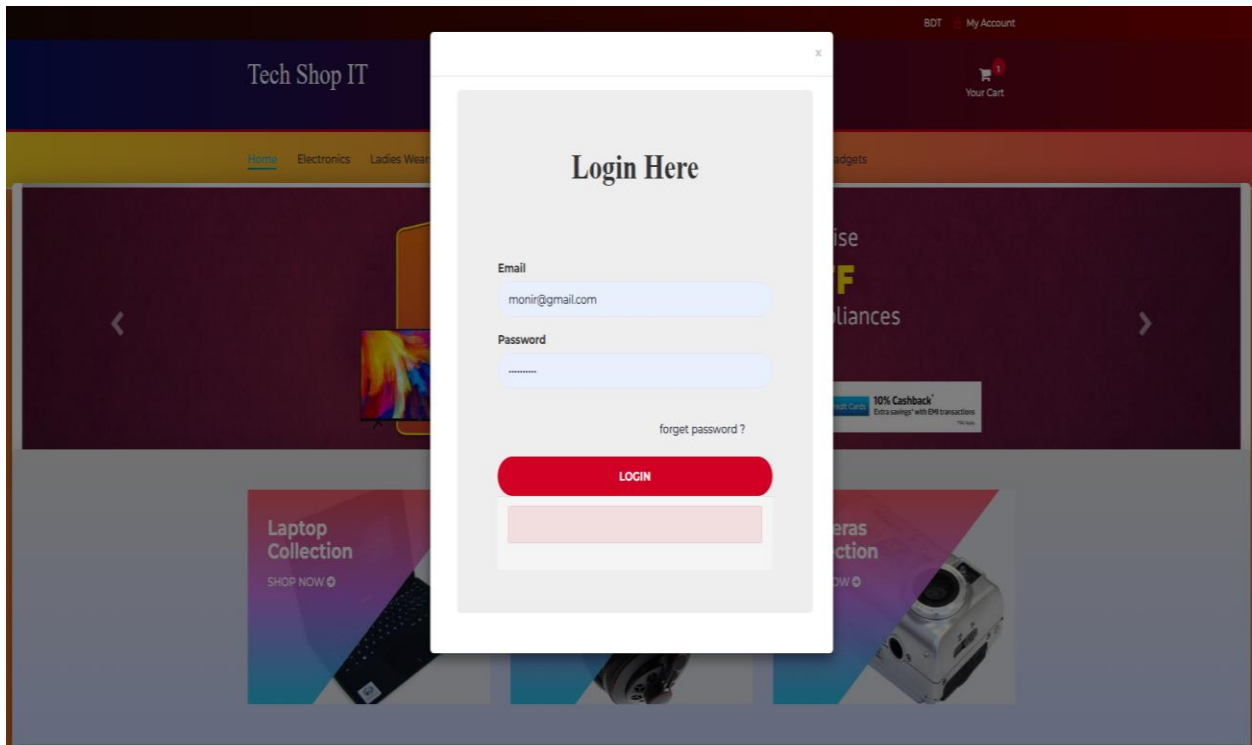



Figure 5.2

## 5.3 Tech Shop IT – Home Pages:


The screenshot displays the Tech Shop IT website interface. At the top, there is a navigation bar with the site name, a search bar, and a shopping cart icon. Below the navigation bar is a main promotional banner for a 'Festive Dhamaka Surprise' offering up to 75% off on TVs and appliances from November 6th to 10th. The banner includes images of a TV, a refrigerator, a washing machine, and a blender, along with logos for '10% Instant Discount' and '10% Cashback'. Below the banner are three product collection tiles: 'Laptop Collection', 'Accessories Collection', and 'Cameras Collection', each with a 'SHOP NOW' button. The 'NEW PRODUCTS' section features four product cards, each with a '30% NEW' tag, a product image, a title, a price, and a star rating. The products are: HP i5 Laptop (5500), HP i7 Laptop 8GB RAM (5500), Boys Jeans Pant (399), and Samsung Galaxy S7 (5000). At the bottom, a 'HOT DEAL THIS WEEK' section features a laptop and headphones, with a countdown timer showing 02 days, 10 hours, 34 mins, and 60 secs, and a 'SHOP NOW' button.

localhost/online-shopping-system/index.php


TOP SELLING Formals Shirts T-Shirts Pants




MENS WEAR  
**BOYS SHIRTS**  
215 3990.00  
★★★★★



MENS WEAR  
**BOYS SHIRTS**  
299 3990.00  
★★★★★



MENS WEAR  
**BOYS JEANS PANT**  
550 3990.00  
★★★★★



MENS WEAR  
**BOYS JEANS PANT**  
460 3990.00  
★★★★★

TOP SELLING    TOP SELLING    TOP SELLING

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

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CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

localhost/online-shopping-system/index.php

TOP SELLING    TOP SELLING    TOP SELLING

ELECTRONICS  
**SAMSUNG GALAXY S7 EDGE**  
5000 3990.00

ELECTRONICS  
**IPHONE 5S**  
25000 3990.00

ELECTRONICS  
**IPAD AIR 2**  
30000 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00


CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

CATEGORY  
PRODUCT NAME GOES HERE  
\$980.00 3990.00

Sign Up for the OFFERUPDATES



**CONTACT US**

address

01765-324820

monir@gmail.com

Copyright ©2025 All rights reserved

**CATEGORIES**

- Mobiles
- Men
- Women
- Kids
- Accessories

## 5.4 View Products:

Home | Electronics | Ladies Wears | Mens Wear | Kids Wear | Furnitures | Home Appliances | Electronics Gadgets

**CATEGORIES**

Electronics (20)  
Ladies Wears (7)  
Mens Wear (26)  
Kids Wear (7)  
Furnitures (1)  
Home Appliances (7)  
Electronics Gadgets (3)

**PRICE**

1.00 - 999.00

**BRAND**

HP (5)  
Samsung (9)  
Apple (4)  
motorolla (4)  
LG (5)  
Cloth Brand (40)

SORT BY: Popular | SHOW: 20

REFRIGERATOR: 35000 (NEW -30%)  
EMERGENCY LIGHT: 1000 (NEW -30%)  
VACCUM CLEANER: 6000 (NEW -30%)  
IRON: 1500 (NEW -30%)  
LED TV: 20000 (NEW -30%)  
MICROWAVE OVEN: 3500 (NEW -30%)

## 5.5 Search Products:

Tech Shop IT | All Categories | Mobile | Search | Your Cart (1)

Home | Electronics | Ladies Wears | Mens Wear | Kids Wear | Furnitures | Home Appliances | Electronics Gadgets

**CATEGORIES**

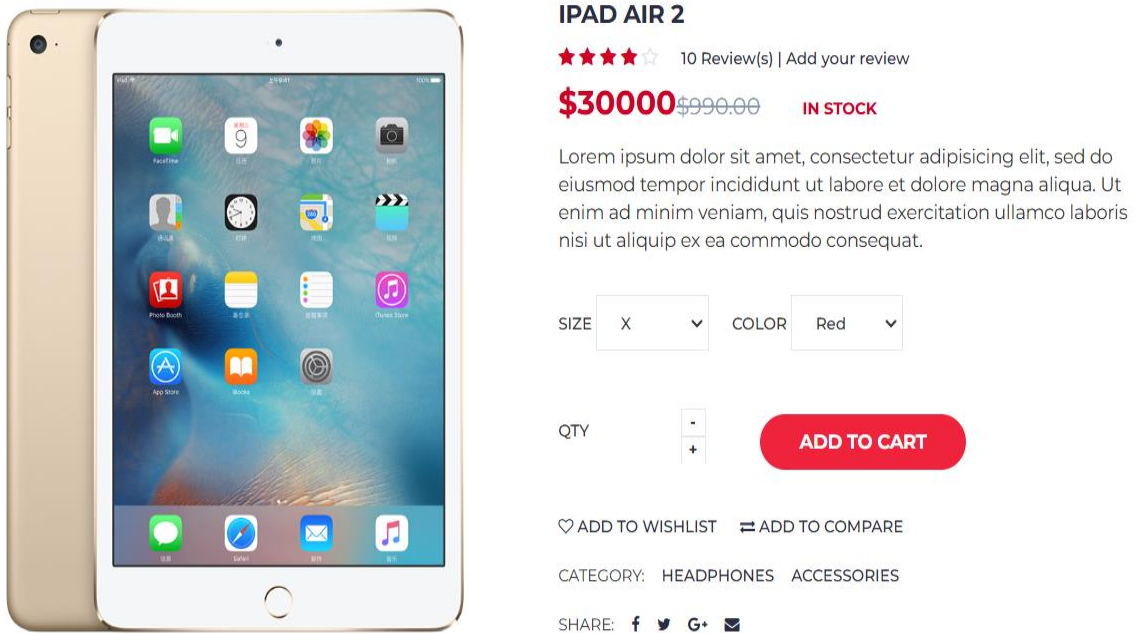
Electronics (20)  
Ladies Wears (7)  
Mens Wear (26)  
Kids Wear (7)  
Furnitures (1)  
Home Appliances (7)  
Electronics Gadgets (3)

**PRICE**

SORT BY: Popular | SHOW: 20

SAMSUNG GALAXY S7 EDGE: 5000 (NEW -30%)  
IPHONE 5S: 25000 (NEW -30%)  
IPAD AIR 2: 30000 (NEW -30%)

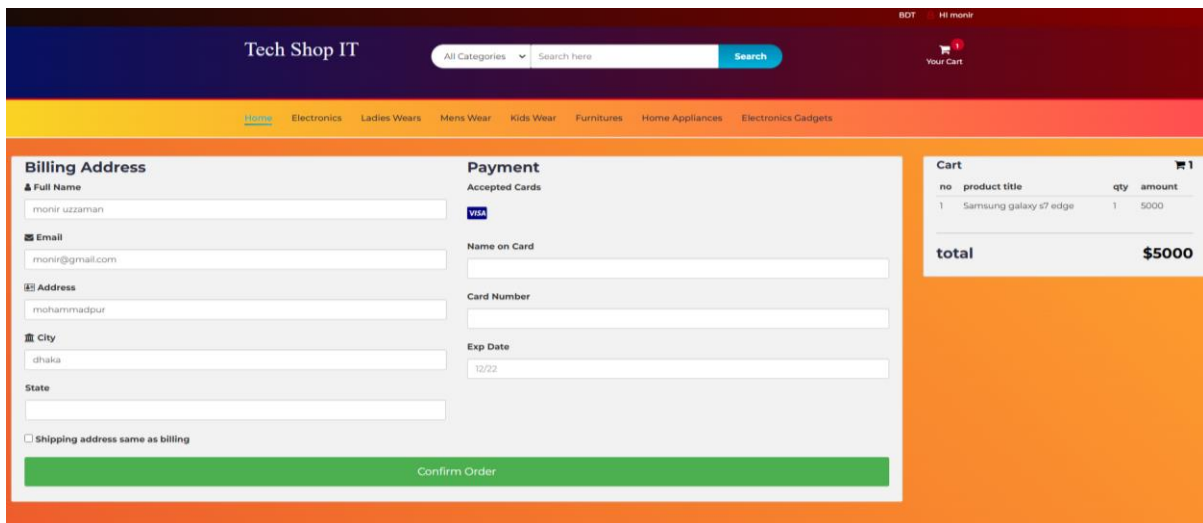
## 5.6 Add to Cart:



The image shows a product page for an iPad Air 2. On the left is a gold iPad Air 2. On the right, the product name "IPAD AIR 2" is displayed with a 4.5-star rating and "10 Review(s) | Add your review". The price is "\$30000" with a crossed-out original price of "\$990.00" and "IN STOCK" status. A placeholder text "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat." is present. Below the text are dropdown menus for "SIZE" (set to "X") and "COLOR" (set to "Red"). A quantity selector is set to "1". A prominent red "ADD TO CART" button is visible. At the bottom, there are links for "ADD TO WISHLIST" and "ADD TO COMPARE", a category list "CATEGORY: HEADPHONES ACCESSORIES", and social sharing icons for Facebook, Twitter, Google+, and Email.

Figure 5.4

## 5.7 Order Confirm and Payment:



The image shows a checkout page for "Tech Shop IT". The page has a dark blue header with the store name, a search bar, and a user greeting "Hi monir". A navigation menu includes "Home", "Electronics", "Ladies Wears", "Mens Wear", "Kids Wear", "Furnitures", "Home Appliances", and "Electronics Gadgets". The main content area is divided into three sections: "Billing Address", "Payment", and "Cart".

**Billing Address:** Full Name (monir uzzaman), Email (monir@gmail.com), Address (mohammadpur), City (dhaka), State ( ), and a checkbox for "Shipping address same as billing".

**Payment:** Accepted Cards (VISA), Name on Card ( ), Card Number ( ), and Exp Date (12/22).

**Cart:** A table with columns "no", "product title", "qty", and "amount". It contains one item: "Samsung galaxy s7 edge" with qty 1 and amount 5000. A "total" row shows "\$5000".

A green "Confirm Order" button is located at the bottom of the Billing and Payment sections.

Figure 5.5

## 5.8 View Order:

ADMIN

PUNEETHREDDY

DASHBOARD

ADD USER

PRODUCT LIST

ORDERS

ADD PRODUCTS

MANAGE USER

LOGOUT

### Orders / Page

CUSTOMER NAME	PRODUCTS	CONTACT   EMAIL	ADDRESS	DETAILS	SHIPPING	TIME
puneeth	Laptop Pavilion	puneethreddy951@gmail.com 9448121558	123456789 ZIP: sdcjns,djc sdcjns,djc	50000	1	DELETE

## 5.9 Admin Dashboard:

ADMIN

PUNEETHREDDY

DASHBOARD

ADD USER

PRODUCT LIST

ORDERS

ADD PRODUCTS

MANAGE USER

LOGOUT

### Users List

ID	FIRSTNAME	LASTNAME	EMAIL	PASSWORD	CONTACT	ADDRESS	CITY
12	puneeth	Reddy	puneethreddy951@gmail.com	puneeth	9448121558	123456789	sdcjns,djc
19	abhishek	bs	abhishekbs@gmail.com	asdcadcc	9871236534	bangalore	hassan
26	monir	uzzaman	monir@gmail.com	Monir@1234	0167354689	mohammadpur	dhaka

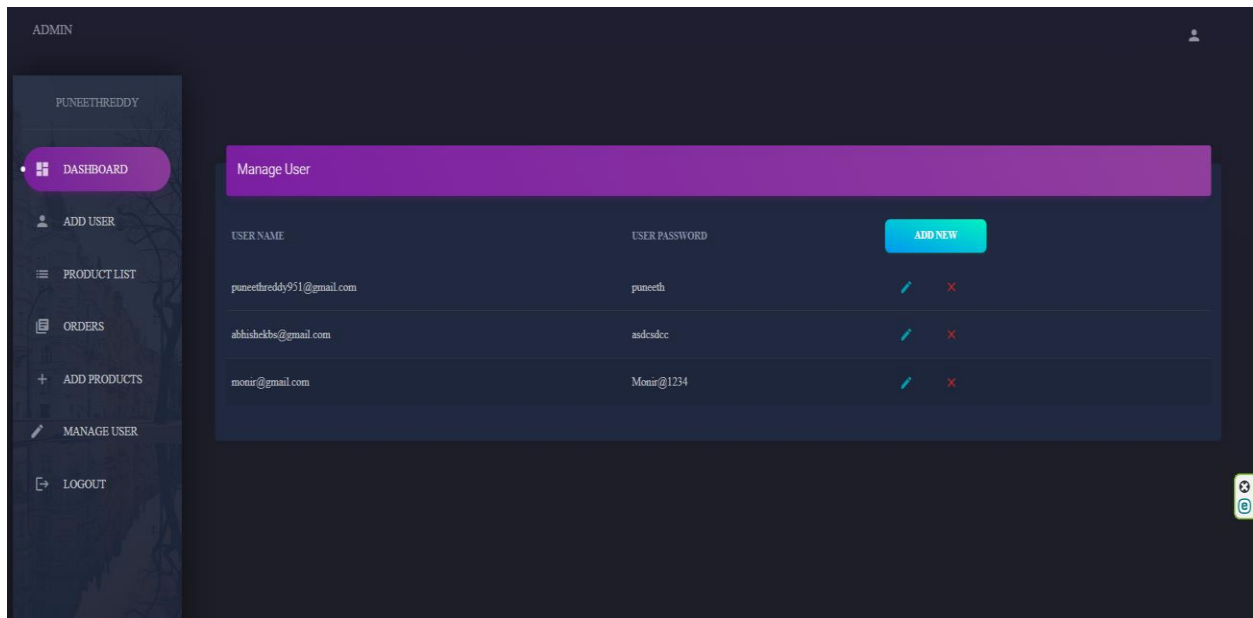
### Categories List

ID	CATEGORIES	COUNT
1	Electronics	20
2	Ladies Wears	7
3	Mens Wear	26
4	Kids Wear	7
5	Furnitures	1
6	Home Appliances	7
7	Electronics Gadgets	3

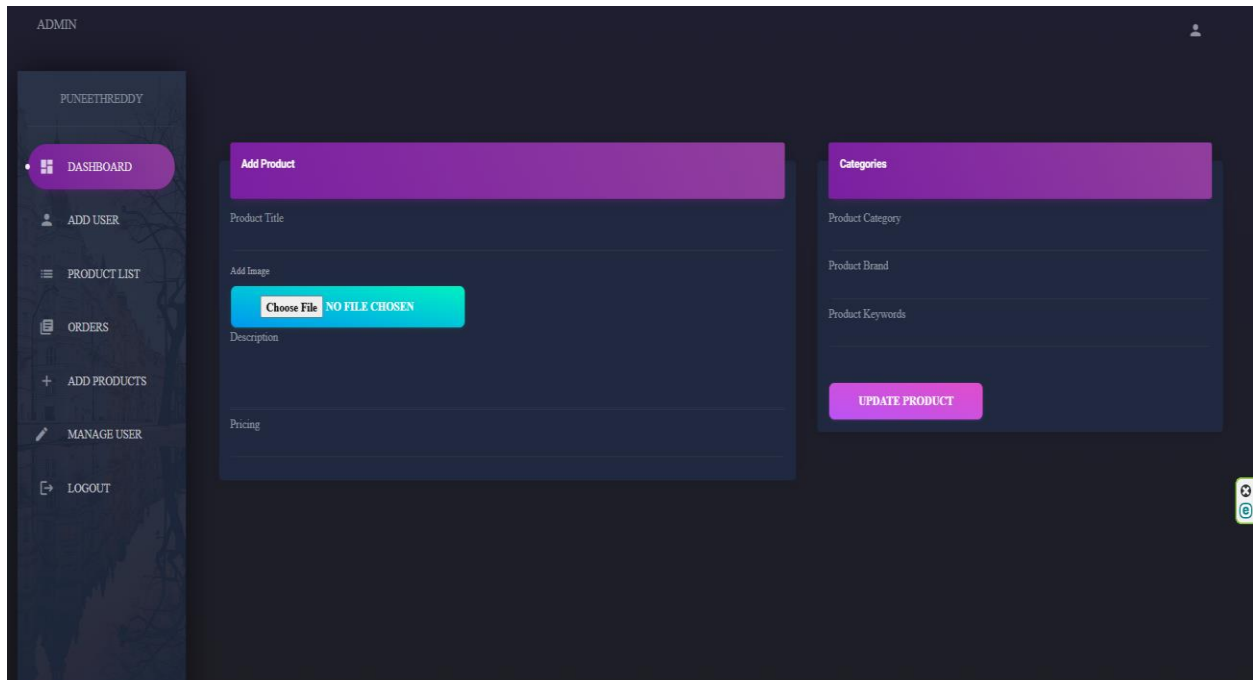
### Brands List

ID	BRANDS	COUNT
1	HP	5
2	Samsung	9
3	Apple	4
4	motorolla	4
5	LG	5
6	Cloth Brand	40

## 5.10 Manage User:



## 5.11 Add Product:



# Chapter 6 Project Summary

## 1.2 6.1 Introduction

The "Tech Shop IT" is a web-based e-commerce platform accessible on both desktop and mobile. It features two actors: users and admins, both requiring login. Users can browse products, add them to their cart, and place orders. Admins manage orders, update product details, add or delete categories, and view reports. Admins also control user access and system settings. The project is designed for quick implementation and ongoing updates.

## 1.3 6.2 Project Limitation

- The payment option is limited for demo purposes.
- There is a risk of unauthorized access.
- Users cannot cancel or modify orders after payment

## 1.4 6.3 Future Work

In the future, additional payment options, order modification, and payment proof features can be added. Implementing REST API technology will enhance security. These improvements will make the project more effective, user-friendly, and suitable for any e-commerce business.

## 1.5 6.4 Conclusion

In conclusion, the "Tech Shop IT" e-commerce platform offers a smooth online shopping experience for tech products, focusing on user-friendly design, secure payments, and reliable delivery. With ongoing improvements and a customer-focused approach, it is poised for success in the competitive market.

## 6.5 Reference:

1. <https://www.scribd.com/document/224306640/PROJECT-REPORT-ON-E-Commerce>
2. <https://sites.google.com/site/ignoubcafinalearprojects/project-report/ecommerce-project-report>

# E-COMMERCE WEB DEVELOPMENT PROJECT FOR TECH SHOP IT

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Student Dashboard

₹722,200.00

Total Payable

₹722,200.01

Total Paid

-₹0.01

Total Due

₹5,250.00

Total Others

### Payment Scheme

Daffodil International University

Fee Name	Amount (Taka)
Admission Fee	15000.00
Campus Development Fee	4500.00
Extra Curriculum Fee	1500.00
Lab Fee	2000.00
Library Fee	3000.00
Rover Scout & BNCC Fee	1000.00
Semester Fee	5500.00
Student Life Insurance	4000.00
Smart Card	1000.00
Tuition Fee	2500.00
Tuition Fee	3750.00
Tuition Fee	4000.00
Tuition Fee	3200.00
Tuition Fee	4500.00
Tuition Fee	5000.00
Tuition Fee	6000.00
Tuition Fee	4000.00