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Project title: E-Commerce Website ShopO

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A project submitted in partial fulfillment of the requirement for the degree of
Bachelor of Science in Software Engineering

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APPROVAL

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This project titled on "ShopO E-Commerce website", submitted by Arifuzzaman (ID: 202-35-659) 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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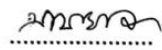
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DECLARATION

DECLARATION

I announce that I am rendering this study document under Afsana Begum, Assistant Professor & Coordinator, Department of Software Engineering. Daffodil International University. I therefore, state that this work or any portion of it was not proposed here therefore for Bachelor's degree or any graduation.

Supervised by:



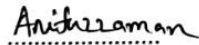
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ABSTRACT

This project entitled “E-Commerce Website ShopO” is a web-based application. In the rapidly evolving digital economy, e-commerce platforms have become integral to global commerce. The stakeholders of this website are three people, one is the admin, the other is the shop owner and the other is the user. This paper presents the development of a multi-vendor e-commerce website, designed to facilitate seamless online transactions between diverse vendors and consumers. The platform leverages advanced technologies to offer a scalable, user-friendly interface that supports a wide range of products and services. Key features include a dynamic vendor management system, secure payment gateways, real-time inventory tracking, chatting system and personalized user experiences through AI-driven recommendations. Emphasis is placed on security, with multi-layered encryption and fraud detection mechanisms. Additionally, the platform incorporates efficient logistics and order management solutions to enhance delivery efficiency. This study highlights the website's architecture, user interface design, and backend functionalities, demonstrating its potential to revolutionize the e-commerce landscape by providing a versatile and secure marketplace for vendors and consumers alike.

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CHAPTER 1

Introduction

1.1 Case Research:

The multi-vendor e-commerce website project demonstrated the effective application of modern web development technologies and best practices in creating a robust, user-friendly marketplace. E-commerce is a hot topic in the academic field. The platform's success highlights the importance of addressing scalability, security, and user experience in e-commerce solutions.

1.2 Identifying Errors:

These E-commerce project have become an essential part of product review, product purchase, dynamic vendor management system, online chatting, real time inventory tracking and many more. It also lead to increasing data science research dedicated to emoji-driven storytelling. It is possible to reduce the cost of hosting and the other sectors which are interconnected to E-commerce website.

1.3 Inspiration:

The world is shaping according to the latest trends and one such trend in the modern world is Data Scientists. It is one of the most sought-after career options for today's youth. From multinational companies to small startups, every organization requires a Data Scientist for proper usage of the huge amount of data it generates and stores. I am highly motivated to be a data scientist. For this purpose, I have chosen this deep learning project.

1.4 Concerning the Project:

This is a web-based software, developed with MERN stack. This is a multi-vendor ecommerce project.

1.5 Objective:

The objective is the outcome of this project, what we will get at the end of this project.

- Marketplace Creation.
- Business Growth for Vendors.
- Customer Convenience.
- Enhanced Shopping Experience.
- Revenue Generation.

1.6 Stakeholders:

1. Admin
2. Seller
3. Users

CHAPTER 2

System Analysis

2.0 Feasibility Study:

I will be reviewing all important elements, including market analysis, technical, financial, operational, and legal feasibility, in order to determine the viability of this software project. I will be able to determine at the end of this feasibility study whether or not our team is competent to create this project. I'll be examining its viability through an examination of the instruments and technology. The following is a summary of the requirements I'm discovering and the tools I'm going to use to contribute to various parts of this project:

2.1 Market Analysis:

Assess the demand for a multi-vendor platform in your target market. Identify existing competitors and analyze their strengths and weaknesses.

2.2 Technical Feasibility:

Establish the technical needs for developing the website, including those for hardware, software, and qualified workers. Several contemporary technologies will be employed in this project. Therefore, we must do an analysis based on a number of factors, such as the technologies we plan to deploy, the number of workers required to operate those technologies, and our plan for risk mitigation in the event that we lack personnel. Let's examine the technologies we plan to employ and the number of personnel on our team:

Technologies	Manpower	Methods for reducing
MongoDB, Express, React, Node.js, Tailwind CSS, Git.	2	Need to train 1 member
Base Tech AI, Deep learning	2	Train 1 member
Working with complex algorithms and APIs	3	Not Required

2.3 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.

2.4 Operational Feasibility:

Onboarding, training, and support for vendors. Efficient handling of customer inquiries, returns, and disputes. Efficient order fulfillment, shipping, and inventory management.

2.5 Legal Feasibility:

Adherence to e-commerce laws, data protection regulations (e.g., GDPR), and consumer rights. Protecting platform IP and ensuring vendors respect copyrights and trademarks.

2.6 Time Estimation:

Activity	Number of days
Requirement Collection	7
Feasibility Study	5
Drawing Diagrams	7
UI/UX design	12
MVC Architecture Design	8
Programming	30
Testing	6
Total	75

2.7 Estimating Costs:

Items	Units	Cost	Subtotals	Totals	% of Total
1.Project Organizing				\$310700	64.3%
Supervisor of Projects	961	\$81	\$76810		
Members of the Project Team	1200*3	\$66	\$235000		
2.Hardware				\$2625	.55%
2.1. Computer			\$2125		
2.2.Mobile Equipment			\$501		
3.Applications				\$401	.09%
3.1.Win 12			\$251		
3.2.Revisionist			\$201		
4.Servants			\$40001	\$40001	8.42%
5.Testing				\$72010	13.7%
5.1.Tester	480*2	\$66	\$73500		
6.Instruction & Assistance				\$45000	10.5%
7.Others				\$5000	2.85%
Total				\$475824	100%

CHAPTER 3

Software Requirement Specification

3.0 Functional Requirements:

This document outlines the functional needs for the project. There are a total of 31 functional requirements, which are shown in the table below:

3.1 FR for User:

FR-01U	User Registration and Login
Description	Users should have the capability to establish accounts and securely authenticate their login credentials.
Stakeholders	User
Priority	High

FR-02U	Product Browsing
Description	Users should be able to browse products by category, brand, or search by keywords.
Stakeholders	User
Priority	High

FR-03U	Product Details
Description	Detailed product pages should include images, descriptions, prices, and other relevant information.
Stakeholders	User
Priority	High

FR-04U	Shopping Cart
Description	Users should be able to add items to their shopping cart, view their cart, and manage the items in it.
Stakeholders	User
Priority	High

FR-05U	Checkout Process
Description	A streamlined checkout process with multiple payment options, including debit cards and CashOn delivery.
Stakeholders	User
Priority	High

FR-06U	Order Management
Description	Users should be able to track their orders, view order history, and manage returns or cancellations if allowed.
Stakeholders	User
Priority	High

FR-07U	Reviews and Ratings
Description	Users should be able to leave reviews and ratings for products they've purchased.
Stakeholders	User
Priority	High

FR-08U	User Profile
Description	Users should have a profile page where they can manage their personal information.
Stakeholders	User
Priority	High

FR-10U	Wishlist
Description	Users should be able to add products to a wishlist for future purchase.
Stakeholders	User
Priority	High

FR-11U	Notifications
Description	Users should receive notifications about order status updates, promotions, and other relevant information.
Stakeholders	User
Priority	High

FR-12U	Support and help
Description	Access to customer support direct chat with sellers, FAQs.
Stakeholders	User
Priority	High

FR-13U	Logout
Description	Users have the ability to log out when they have finished their task.
Stakeholders	User
Priority	High

3.2 FR for Sellers:

FR-01S	Seller Registration and Login
Description	Sellers should be able to register their accounts and login their account.
Stakeholders	Seller
Priority	High

FR-02S	Product Management
Description	Sellers should have the ability to add, edit, and delete their products, including uploading product images, descriptions, pricing, and inventory management.
Stakeholders	Seller
Priority	High

FR-03S	Order Management
Description	Sellers should be able to view and manage orders for their products, including order fulfillment, shipment tracking, and order cancellation if necessary.
Stakeholders	Seller
Priority	High

FR-04S	Dashboard
Description	Sellers should have access to a dashboard with analytics and reports on sales performance, revenue, customer behavior etc.
Stakeholders	Seller
Priority	High

FR-05S	Chat
Description	Sellers should be able to communicate with customers regarding product inquiries, order status updates, and customer service issues.
Stakeholders	Seller
Priority	High

FR-06S	Promotions and Discounts
Description	Sellers should have the ability to create promotions, discounts and coupons for their products to attract customers.
Stakeholders	Seller
Priority	High

FR-07S	Feedback and Reviews
Description	Sellers should be able to view customer reviews and ratings for their products.
Stakeholders	Seller
Priority	High

FR-08S	Seller Profile
Description	A customizable seller profile page where sellers can showcase their brand, company information, policies, and contact details.
Stakeholders	Seller
Priority	High

FR-09S	Logout
Description	Sellers have the option to log out when completing their task.
Stakeholders	Seller
Priority	High

3.3 FR for Admin:

FR-01A	Registration and Login
Description	Admin should be able to register his accounts and login his account.
Stakeholders	Admin
Priority	High

FR-02A	Vendor Management
Description	Manage vendor accounts, including approvals, suspensions, or terminations.
Stakeholders	Admin
Priority	High

FR-03A	Product Management
Description	Admin can customize products by chatting with sellers.
Stakeholders	Admin
Priority	High

FR-04A	User Management
Description	Manage user accounts. Monitor user activity, such as reviews and ratings.
Stakeholders	Admin
Priority	High

FR-05A	Seller Management
Description	Manage seller accounts. Monitor seller activity.
Stakeholders	Admin
Priority	High

FR-06A	Payment Management
Description	Configure payment gateways and methods.
Stakeholders	Admin
Priority	High

FR-07A	Content Management
Description	Manage website content, including banners, promotions, and announcements. Ensure consistency and quality of product listings and descriptions. Optimize content for search engine visibility.
Stakeholders	Admin
Priority	High

FR-08A	System Maintenance and Performance
Description	Monitor website performance and uptime. Conduct regular maintenance tasks such as backups and updates.
Stakeholders	Admin
Priority	High

FR-09A	Logout
Description	The administrator can log out upon completion of their tasks.
Stakeholders	Admin
Priority	High

3.4 Non-Functional Requirements:

The following table presents the six non-functional criteria for this project:

3.5 Performance:

NFR-01	The landing page will provide replies within one second.
Description	The response time for seeing information should not exceed five seconds.
Stakeholders	Developer

3.6 Safety Requirements:

NFR-02	The system must not negatively impact human users in any way while it is used.
Description	The system will be created in accordance.
Stakeholders	Admin, User

3.7 Tolerance for Faults:

NFR-03	The system needs to be accessible 24 x 7
Description	The system has to be accessible around-the-clock. Additionally, it has to be updated often.
Stakeholders	Developer

3.8 Upkeep:

NFR-04	The system assists in updating any data at any moment.
Description	The administrator updates or modifies any data under any circumstance.
Stakeholders	Admin

3.9 Safety:

NFR-05	Ensure robust security measures for every action performed in this module.
Description	To safeguard user data, including payment information, order history, and personal information, the website should have strong security mechanisms in place.
Stakeholders	Admin

3.10 Data Backup and Recovery:

NFR-06	Backup and Recovery
Description	Regular backups of the website database, configuration files, and media assets should be performed to prevent data loss in case of disasters or security breaches.
Stakeholders	Admin, Developer

CHAPTER 4

Design and Analysis of Systems

4.1 Diagram of Use Case:

Our use case diagram has three actors. My project will be fine-tuned in detail by this diagram.

4.2 Diagram of Use Case:

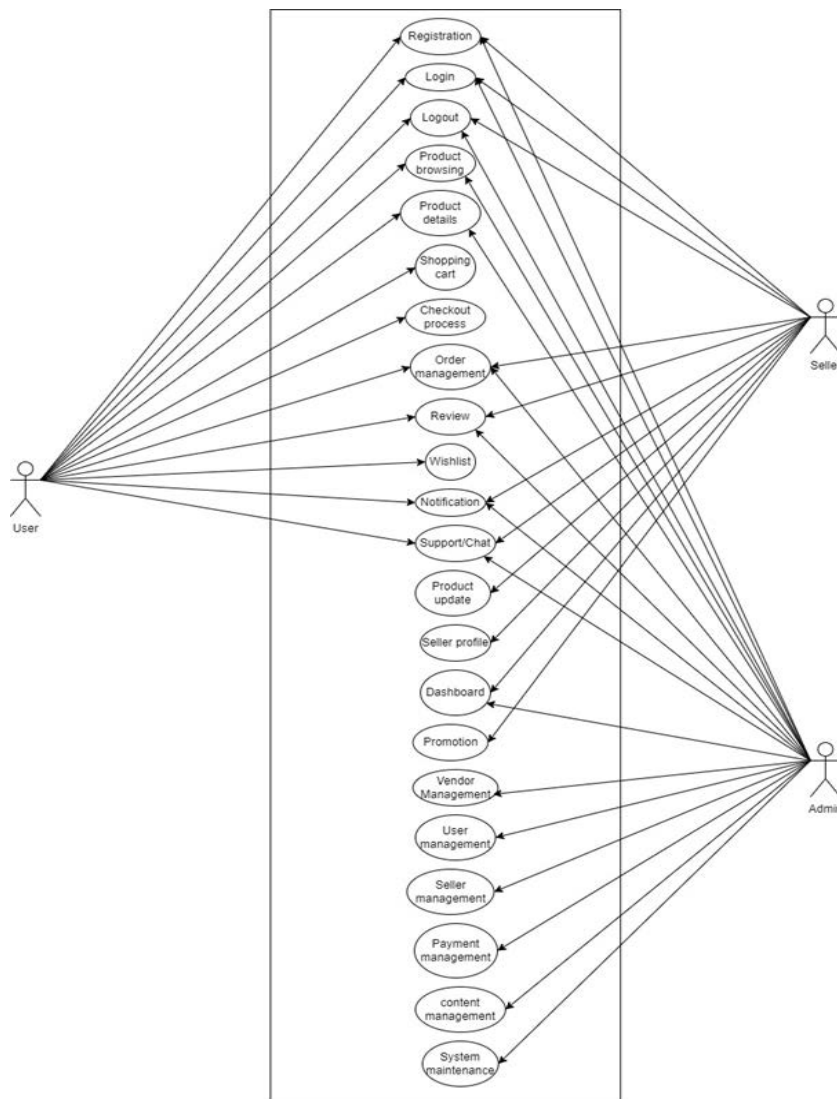


Figure 4.1 Diagram of Use Case

4.3 User's Description of a Use Case Diagram:

Name of Use Case	Registration
Actor	User
Description	User has to register with all the information.
Precondition	The user has to be on the page where they register.
Trigger	Click “Sign-up” button
Flow of Events	-Two text boxes with the login, password, and Gmail address should be present. 1.Enter text into the box 2. Send in data.
Post Condition	This system may be successfully registered by the user.

Name of Use Case	Login
Actor	User
Description	The user will access the system by utilizing their login information.
Precondition	The user is required to be on the login page.
Trigger	Click “Login” button.
Flow of Events	There should be two text boxes with the login and password entered. 1.Enter text into the box. 2. Send in data.
Post Condition	The user is able to successfully log in to the system.

Name of Use Case	Product browsing
Actor	User
Description	User can browse products very easily after visiting website.
Precondition	The user is required to be on the main page.
Trigger	Click “Home” button
Flow of Events	-User can see all kinds of products -User will get accurate information about all kinds of products
Post Condition	User can browse product successfully

Name of Use Case	Product details
Actor	User
Description	User can get product details very easily after visiting website and click on product.
Precondition	The user is required to be on the product page.
Trigger	Click “Products” button
Flow of Events	User clicks on the product button, all kinds of products will show. Users click on the details of the product, all kinds of information will visible
Post Condition	User will successfully know the details of the product

Name of Use Case	Shopping cart
Actor	User
Description	Users can add their chosen products to shopping cart for purchase.
Precondition	On the cart page, the user must be.
Trigger	Click “Add to cart” button
Flow of Events	-User has to login and click on product option -click on the small icon on the side of the product and add product on cart.
Post Condition	User successfully add products on cart.

Name of Use Case	Checkout
Actor	User
Description	Users click to check-out for payment option
Precondition	On the cart page, the user must be.
Trigger	Click “Check-out now” button
Flow of Events	-User need must first add any product to cart -Click on “Check Out now” button
Post Condition	User successfully enter the payment option.

Name of Use Case	Order management
Actor	User
Description	User can order any product or cancel the order at any time by order management page
Precondition	User needs to be on their profile page.
Trigger	Click “Orders” button
Flow of Events	-User must first click on his profile option -Click on order option from profile
Post Condition	User view his orders successfully.

Name of Use Case	Reviews and rating
Actor	User
Description	User can only give review and rating after buying any product.
Precondition	Visit the product information page first.
Trigger	Click “Product review” button
Flow of Events	-Click on “orders” page -Click on Product History -Click on the product review button
Post Condition	User successfully review that product.

Name of Use Case	Wishlist
Actor	User
Description	User can add his/her favorite items to wish list for future purchase.
Precondition	User must be on wish icon which is right side of every product.
Trigger	Click the “Wish list” button on the top of website.
Flow of Events	-Click on product details -Click on wish icon option and add to Wishlist
Post Condition	Product has been successfully added to the wish list by user.

Name of Use Case	Notification
Actor	User
Description	popup like notification will appear every time a task is completed by user.
Precondition	User must be on website.
Trigger	Click the “Submit/Enter” button.
Flow of Events	-Click on product for purchase -Show pop-up notification after purchase
Post Condition	Users see notification successfully.

Name of Use Case	Support and FAQ
Actor	User
Description	User can contact the seller anytime through chat. Besides, he can know policy by clicking on the FAQ.
Precondition	Users need to click send message button and also click FAQ button for more information.
Trigger	Click the “Send message/ FAQ” button.
Flow of Events	-Click on product details -Click on send messages option -Click on FAQ page
Post Condition	Users contact the seller successfully.

Name of Use Case	Logout
Actor	User
Description	Users will have the ability to reset their account password.
Precondition	Authentication is required for user access.
Trigger	Click on logout button
Flow of Events	-The user will log into the database system. -The user will press the "logout" button.
Post Condition	The user will be logged out of the system and automatically routed to the login page.

4.4 Seller's description of the use case diagram:

Name of Use Case	Registration
Actor	Seller
Description	Seller has to register with all the information.
Precondition	Seller must be on registration page
Trigger	Click the “Sign-up” button
Flow of Events	-Should have six text box which contain Shop-name, phone number, email-address, address, zip-code, password. -Enter text into the box. - Send in data.
Post Condition	Seller can register this system successfully

Name of Use Case	Login
Actor	Seller
Description	The seller will access the system by utilizing their login credentials.
Precondition	Seller required to be on the login page.
Trigger	Click on “Login” button
Flow of Events	1. Two text boxes with the password and email fields should be present. 2. Complete the text field. 3. Send in data.
Post Condition	Seller is able to successfully log in to

	this system.
--	--------------

Name of Use Case	Product management
Actor	Seller
Description	Seller can manage the product in any way after going to his dashboard option.
Precondition	Seller must be on Dashboard page
Trigger	Click the “All product” button
Flow of Events	-Seller need login go to dashboard option -Then click on All Product option
Post Condition	Seller can manage product successfully.

Name of Use Case	Order management
Actor	Seller
Description	Seller can manage all types of orders.
Precondition	Seller must be on Dashboard page
Trigger	Click the “All orders” button
Flow of Events	-Seller need login go to dashboard option -Then click on All order option
Post Condition	Seller manages order successfully.

Name of Use Case	Seller Dashboard
Actor	Seller
Description	Seller can manage everything using his dashboard.
Precondition	Seller must be on dashboard page.
Trigger	Click the “Go dashboard” button
Flow of Events	-Seller need login go to dashboard option -Then he can manage everything for his shop
Post Condition	Seller manages dashboard successfully.

Name of Use Case	Chat
Actor	Seller
Description	Seller can chat with users.
Precondition	Seller must be on product details page.
Trigger	Click the “products” button
Flow of Events	-Seller must click on Dashboard option -The seller need to click on shop inbox
Post Condition	Sellers can chat with buyers Successfully.

Name of Use Case	Promotions and discount
Actor	Seller
Description	Seller can promote his products and offer discounts there.
Precondition	Seller must be on Discount codes page.
Trigger	Click the “Create coupon code” button
Flow of Events	-Seller must click on Discount codes option -The seller needs to click on create coupon code page -Then click submit button
Post Condition	The seller will generate discount coupons for his products successfully.

Name of Use Case	Reviews and feedback
Actor	Seller
Description	Seller can see what users have reviewed their products.
Precondition	Seller must be on all products page.
Trigger	Click the “Preview” button
Flow of Events	1.Seller must click on all products page 2.The seller needs to click on preview option. 3.Then click product review option
Post Condition	Seller can view all reviews successfully.

Name of Use Case	Seller profile
Actor	Seller
Description	Seller can make any kind of changes in his profile.
Precondition	Seller must be on Dashboard page.
Trigger	Click the profile icon logo.
Flow of Events	-Seller entered dashboard page -The seller needs to click profile logo option -Then update his profile and finally click update button
Post Condition	Seller can update his profile successfully.

Name of Use Case	Logout
Actor	Seller
Description	The seller can change the password for their own account.
Precondition	The seller needs to log in.
Trigger	Click logout button.
Flow of Events	1.The system will require the seller to register in. 2.The seller will select the "logout" option.
Post Condition	The seller will be sent to the login page after being removed from the system.

4.5 Admin's Use Case Diagram Description:

Name of Use Case	Registration
Actor	Admin
Description	Admin has to register with all the information.
Precondition	Admin must be on registration page
Trigger	Click the “Sign-up” button
Flow of Events	1. Two text boxes with the password and email address should be present. 2. Enter text into the box. 3. Send in data.
Post Condition	Admin may effectively register this system.

Name of Use Case	Login
Actor	Admin
Description	The administrator will access the system by utilizing their login credentials.
Precondition	The administrator has to be on the page where users log in.
Trigger	Click on “Login” button
Flow of Events	1. Two text boxes with the password and email fields should be present. 2. Enter text into the box. 3. Send in data.
Post Condition	The system administrator can successfully log in.

Name of Use Case	Vendor management
Actor	Admin
Description	Admin can control all the vendors and he can remove or add them.
Precondition	Admin must be on Admin dashboard page
Trigger	Click the “All sellers” button
Flow of Events	-After login click on admin dashboard page -Then click on All Sellers option
Post Condition	Admin maintains vendors successfully.

Name of Use Case	Product management
Actor	Admin
Description	Admin can manage and see all product.
Precondition	Admin must be on Admin dashboard page
Trigger	Click the “All products” button
Flow of Events	-After login click on admin dashboard page -Then click on All products option
Post Condition	Admin manage product successfully.

Name of Use Case	User management
Actor	Admin
Description	Admin can ban any user or keep the website.
Precondition	Admin must be on website.
Trigger	Click the “All users” button
Flow of Events	-After login click on admin dashboard page -Then click on All users option
Post Condition	Admin manage users successfully.

Name of Use Case	Payment management
Actor	Admin
Description	Admin can handle all types of payment in this website.
Precondition	Admin must be on admin dashboard page.
Trigger	Click the “Withdraw request” button
Flow of Events	-After login click on admin dashboard page -Then click on withdraw request option -Update their payment status
Post Condition	Admin update their payment successfully.

Name of Use Case	Seller management
Actor	Admin
Description	Admin can control all the Seller and he can remove or add them.
Precondition	Admin must be on Admin dashboard page
Trigger	Click the “All sellers” button
Flow of Events	-After login click on admin dashboard page -Then click on All Sellers option
Post Condition	Admin maintain sellers successfully.

Name of Use Case	Content management
Actor	Admin
Description	Admin can manage all types of content for this website.
Precondition	Admin must be on Admin dashboard page
Trigger	Click the “All events” button
Flow of Events	-After login click on admin dashboard page -Then click on All events option
Post Condition	Admin manage content successfully.

Name of Use Case	System Update
Actor	Admin
Description	Admin can update system any time.
Precondition	Admin must be on Admin dashboard page
Trigger	Click the “dashboard” button
Flow of Events	-After login click on admin dashboard page -Then open vs code and update.
Post Condition	Admin update system successfully.

Name of Use Case	Logout
Actor	Admin
Description	The administrator can change the password for their own account.
Precondition	An admin login is required.
Trigger	Click logout button
Flow of Events	1.The administrator will sign into the system. 2.Admin will press the button to log out.
Post Condition	The administrator will be sent to the login screen after being removed from the system.

4.6 Diagram of an activity:

Within this framework, we shall provide a comprehensive examination of the system's functionality across several components. To achieve this objective, we will dissect all the activities into smaller components and subsequently integrate them into activity diagrams. The objective of creating these activity diagrams is:

- To depict the way our solution's activities flow.
- To explain the flow from one task to the next.

4.7 Diagram of Activities for User Registration:

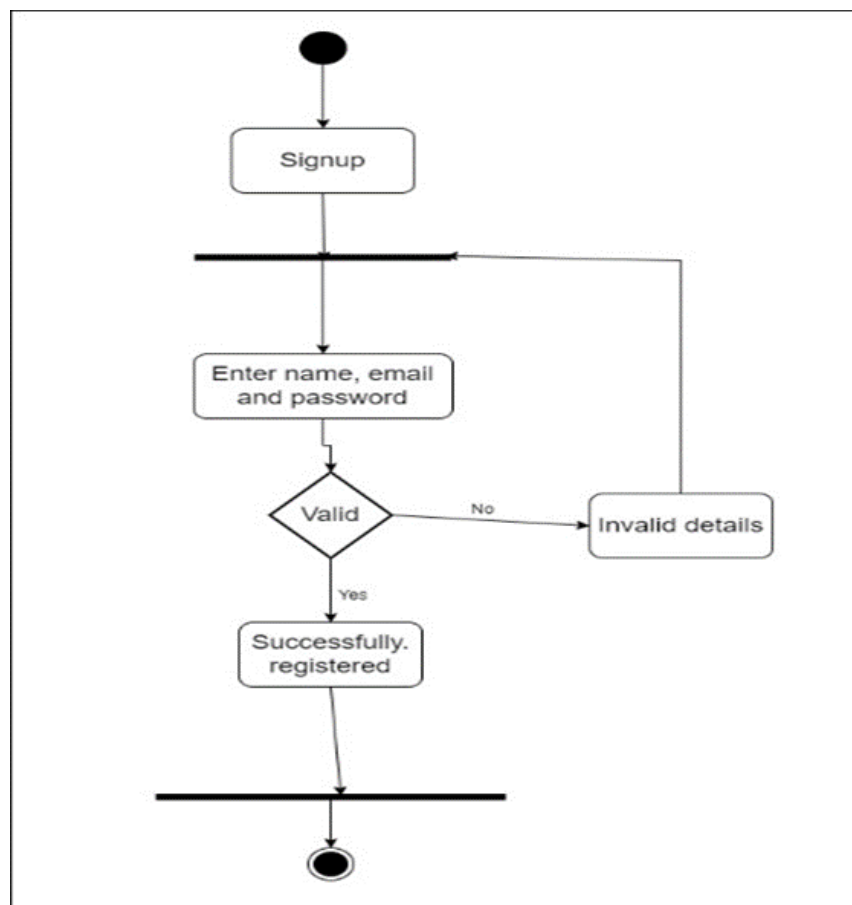


Figure 4.2 Registration Activity Diagram

4.8 Activity diagram for user login:

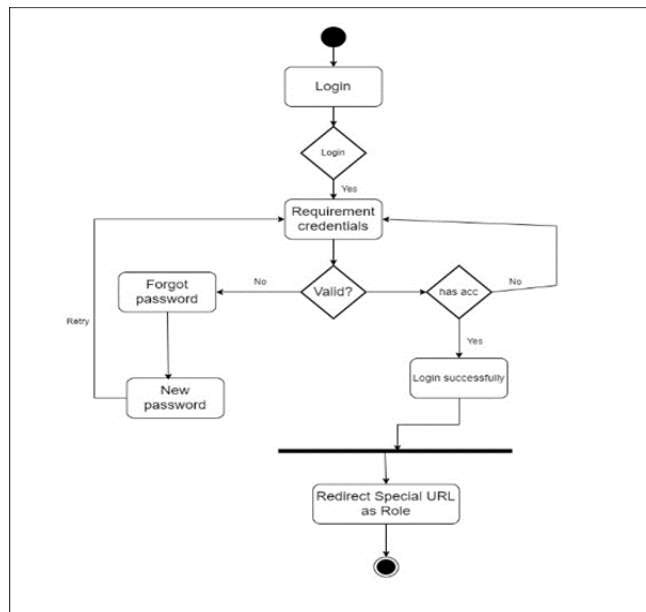


Figure 4.3 Login Activity Diagram

4.9 Activity diagram for user product browsing:

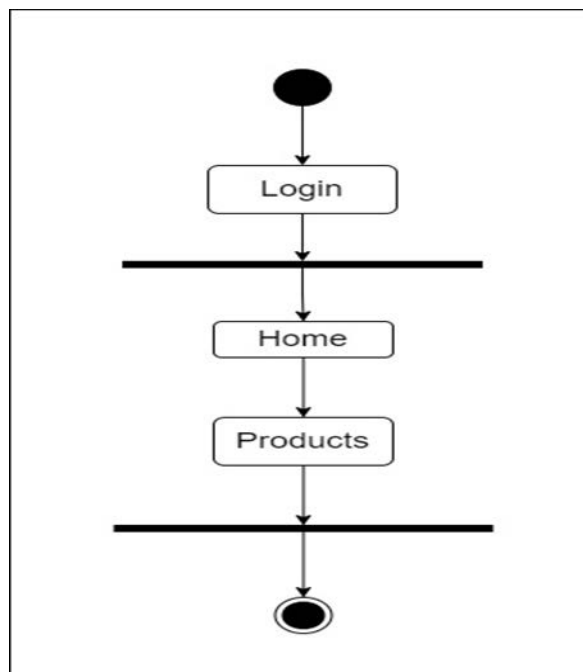


Figure 4.4 Product Browsing Activity Diagram

4.10 Activity diagram for user product details:

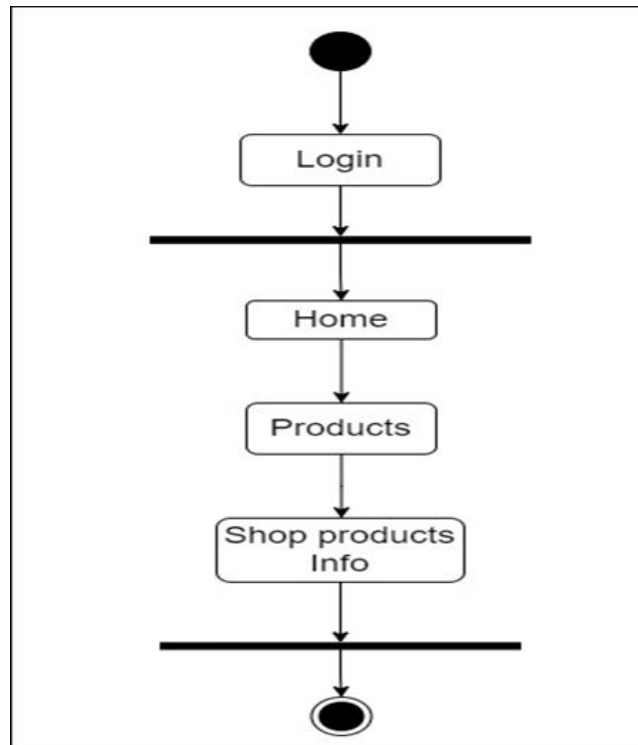


Figure 4.5 Product Details Activity Diagram

4.11 User shopping cart activity diagram:

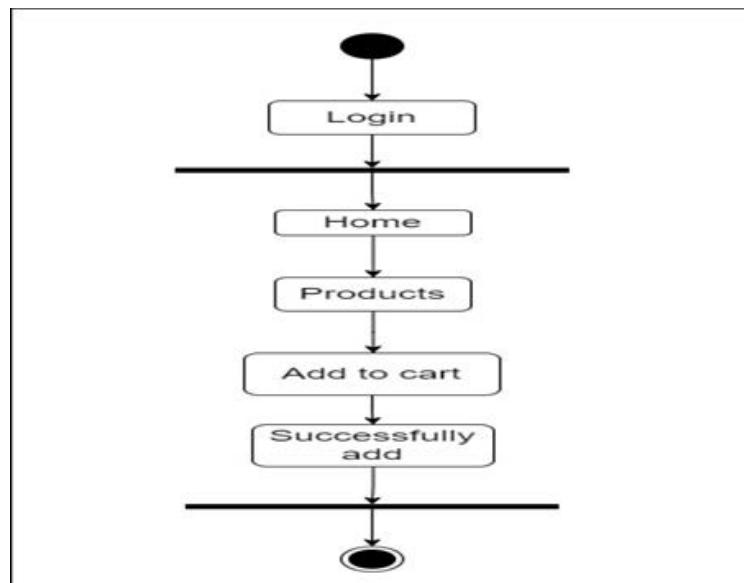


Figure 4.6 User shopping cart activity diagram

4.12 Activity diagram for user check-out process:

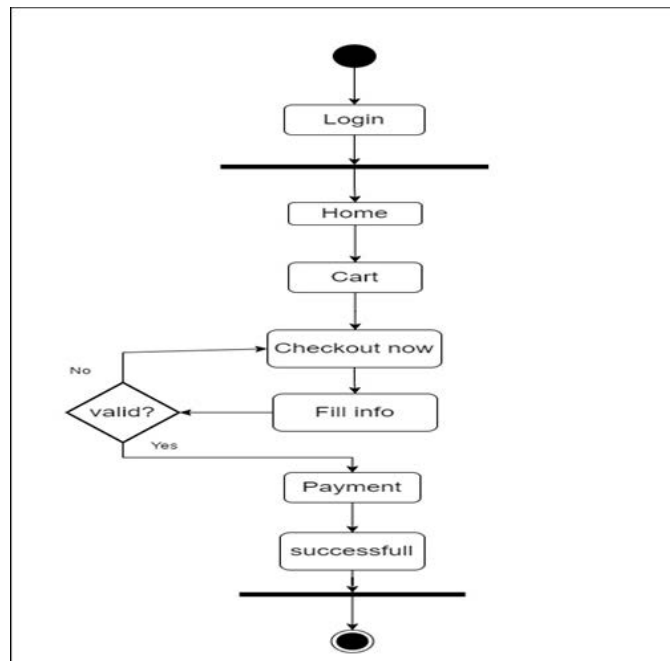


Figure 4.7 Checkout Process Activity Diagram

4.13 Activity diagram for user order management:

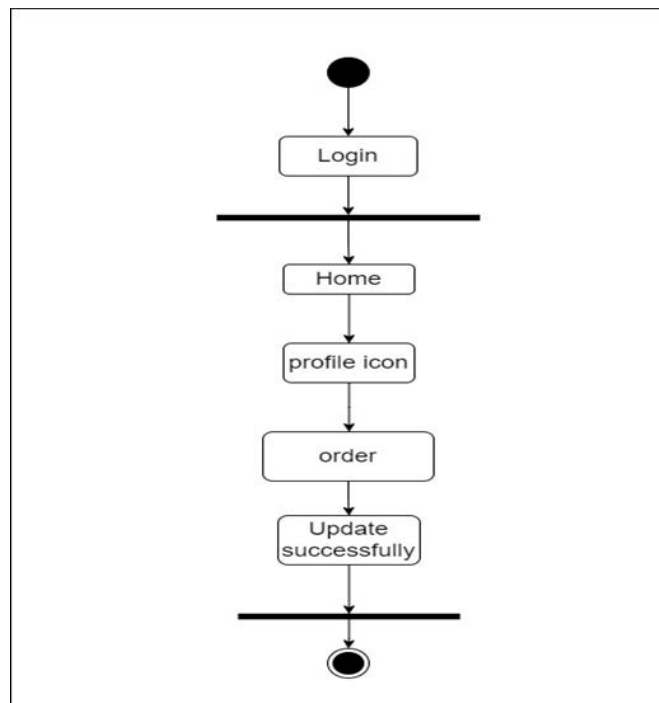


Figure 4.8 Order Management Activity Diagram

4.14 Activity diagram for user review:

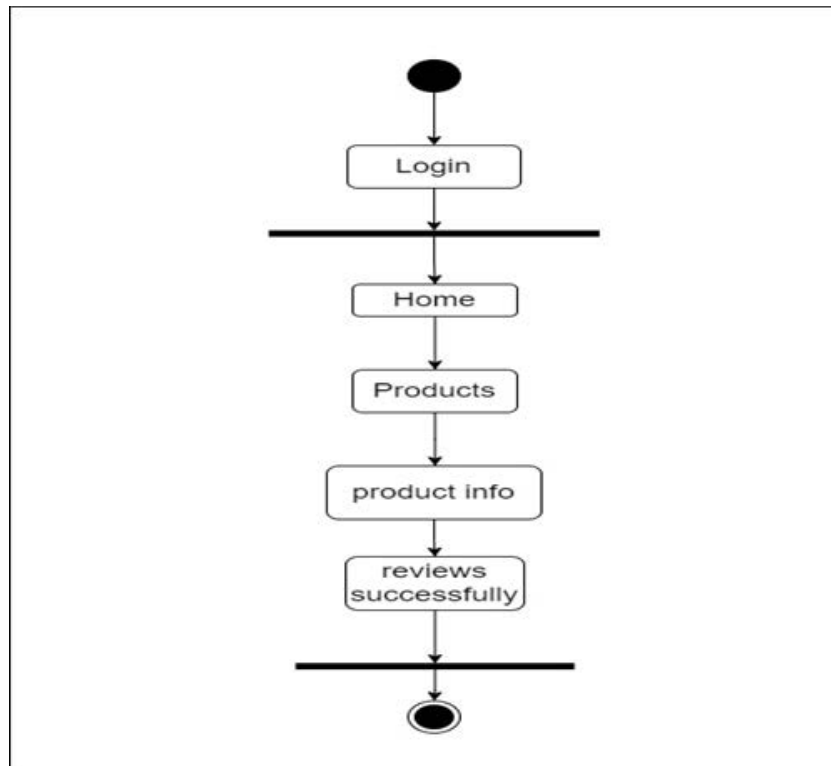


Figure 4.9 User Review Activity Diagram

4.15 Activity diagram for user Wishlist:

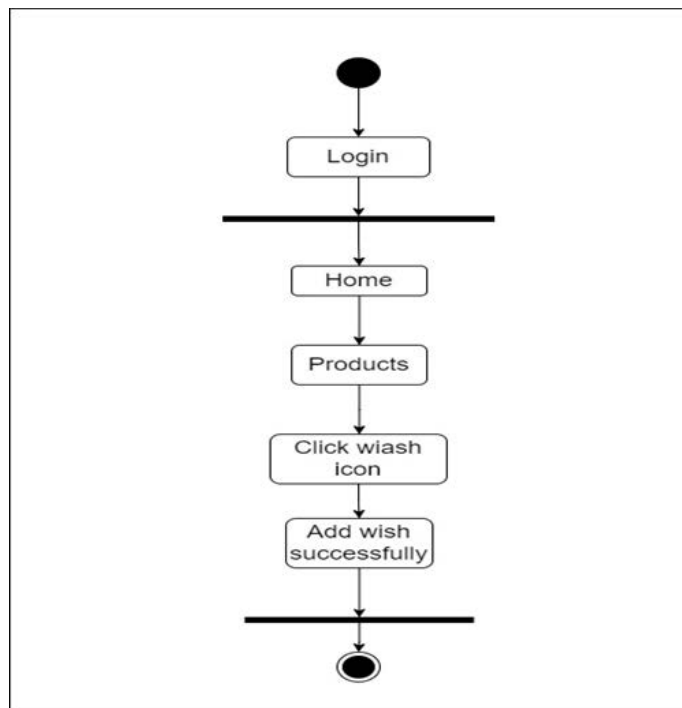


Figure 4.10 User Wishlist Activity Diagram

4.16 Activity diagram for user notifications:

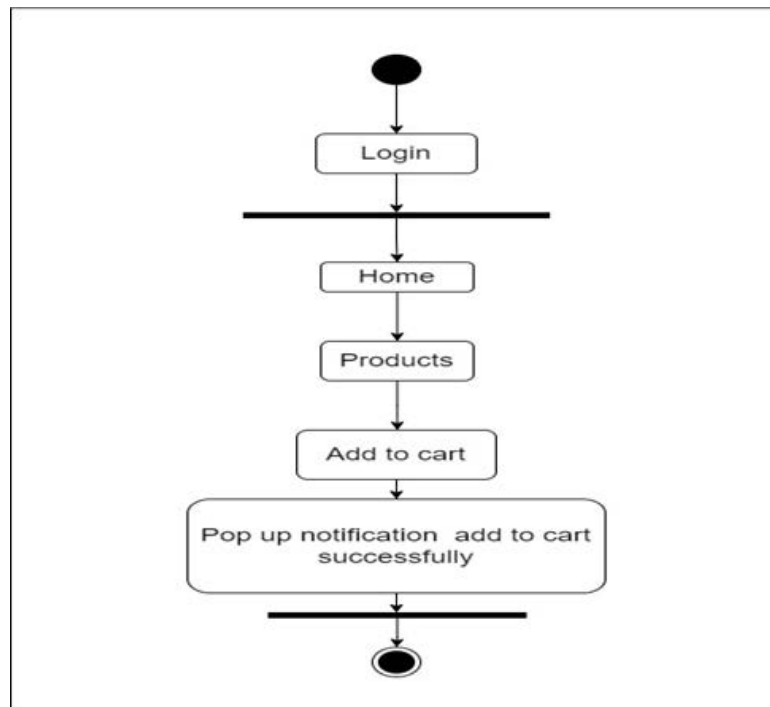


Figure 4.11 User Notification Activity Diagram

4.17 Activity diagram for user support/chat:

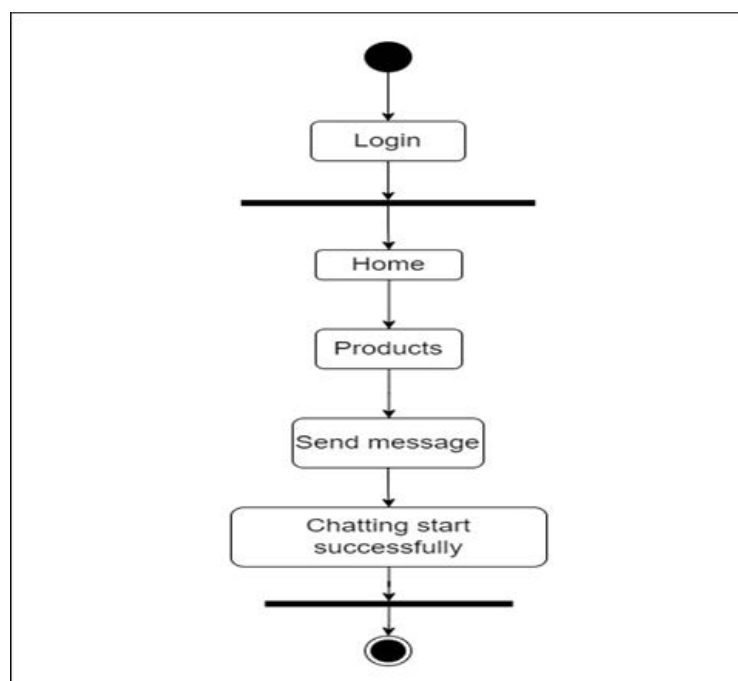


Figure 4.12 User Support/Chat Activity Diagram

4.18 Activity diagram for Seller Registration:

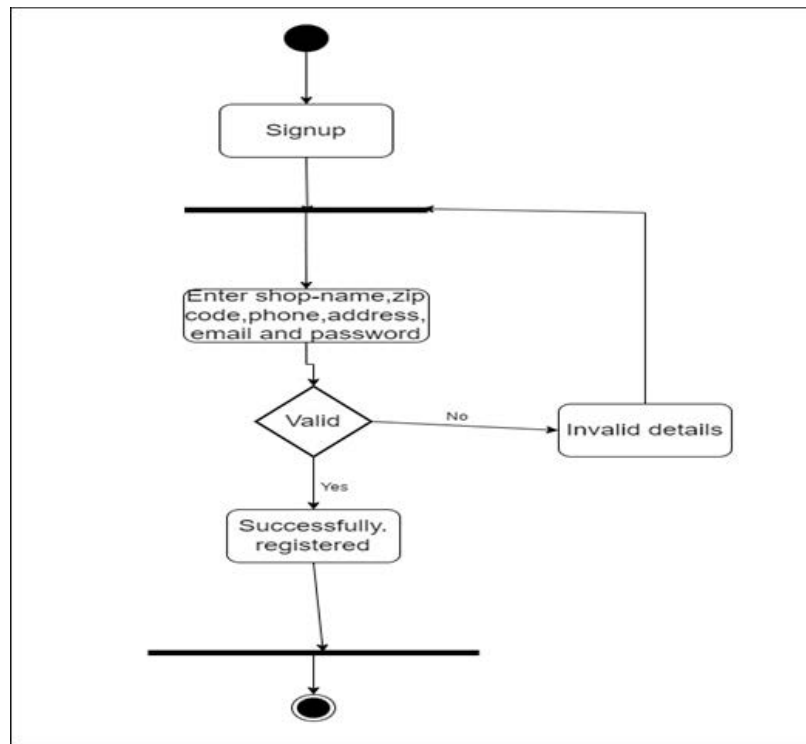


Figure 4.13 Seller Registration Activity Diagram

4.19 Activity diagram for Seller Login:

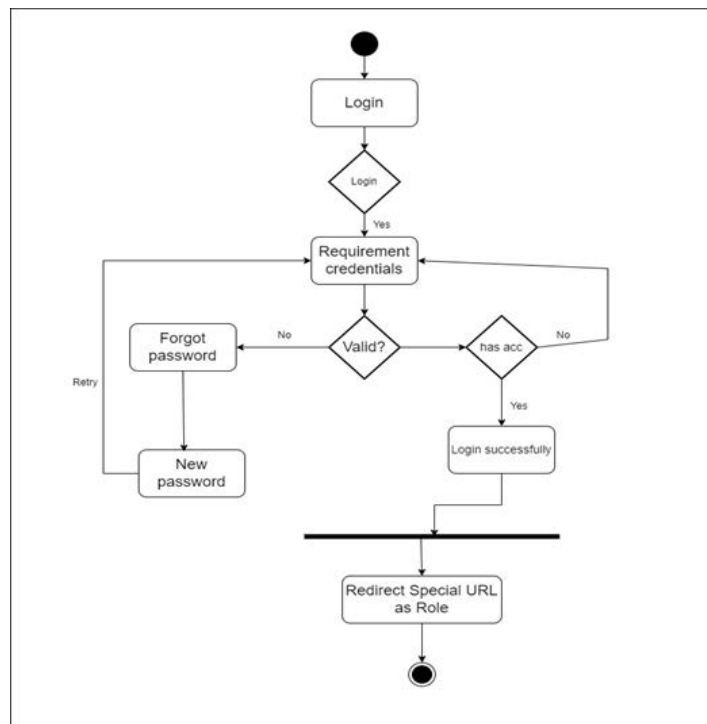


Figure 4.14 Seller Login Activity Diagram

4.20 Activity diagram for Seller Product Management:

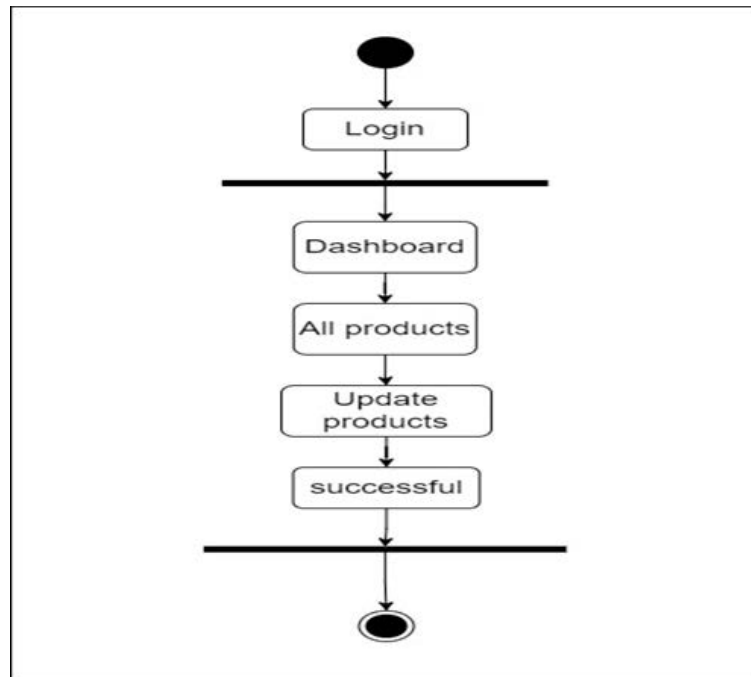


Figure 4.15 Seller Product Management Activity Diagram

4.21 Activity diagram for Seller Order management:

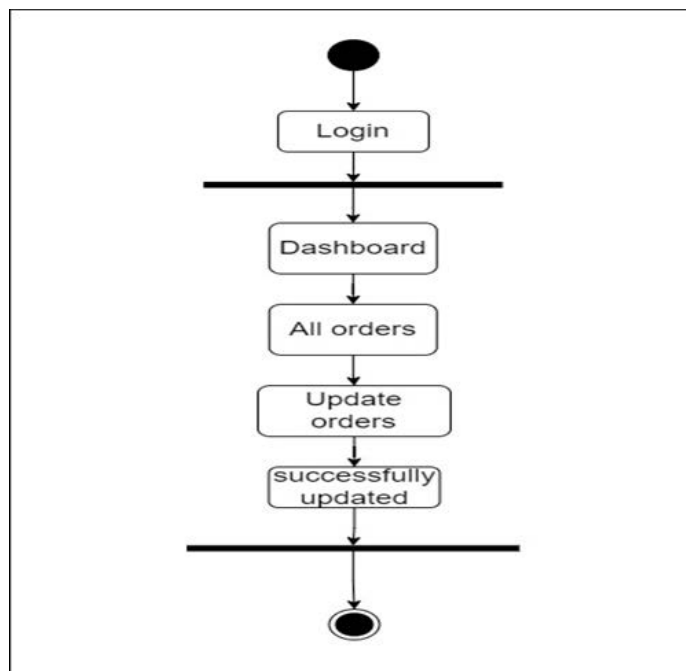


Figure 4.16 Seller Order Management Activity Diagram

4.22 Activity diagram for Seller Dashboard:

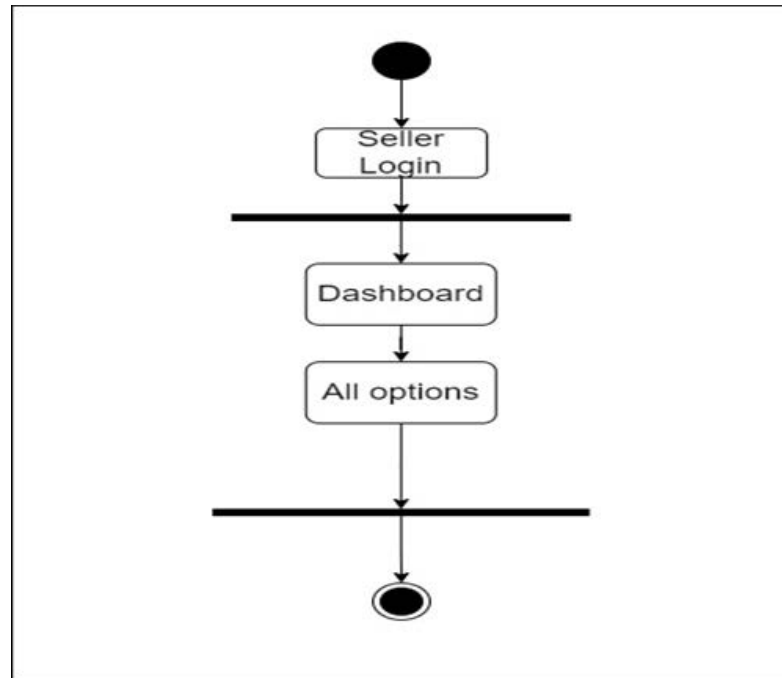


Figure 4.17 Seller Dashboard Activity Diagram

4.23 Activity diagram for Seller Chat:

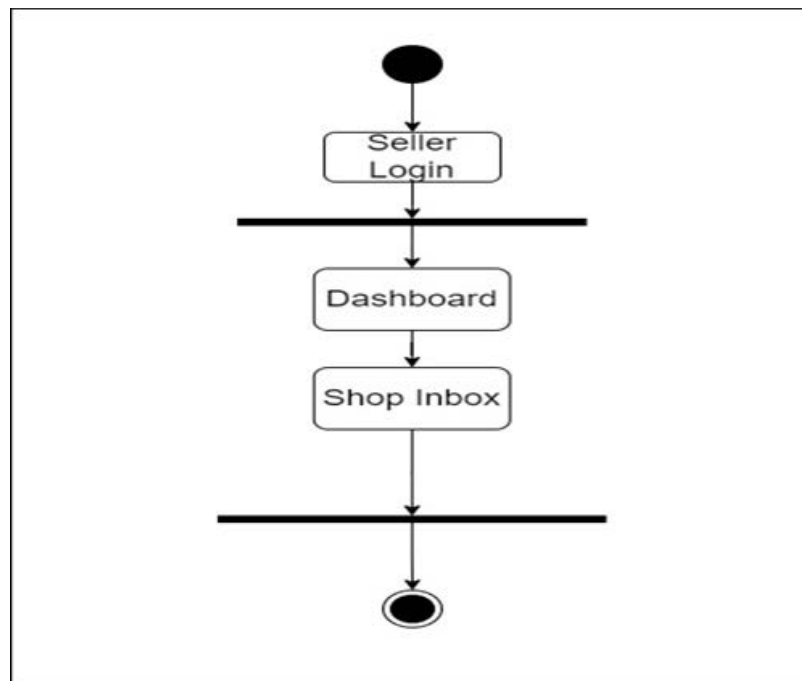


Figure 4.18 Seller Inbox/Chat Activity Diagram

4.24 Activity diagram for Seller Promotion and discount:

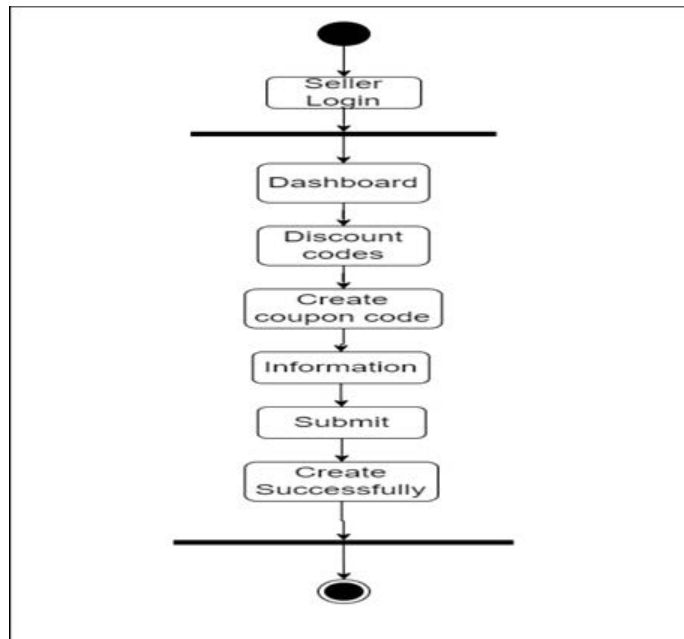


Figure 4.19 Seller Promotion and discount Activity Diagram

4.25 Activity diagram for Seller reviews:

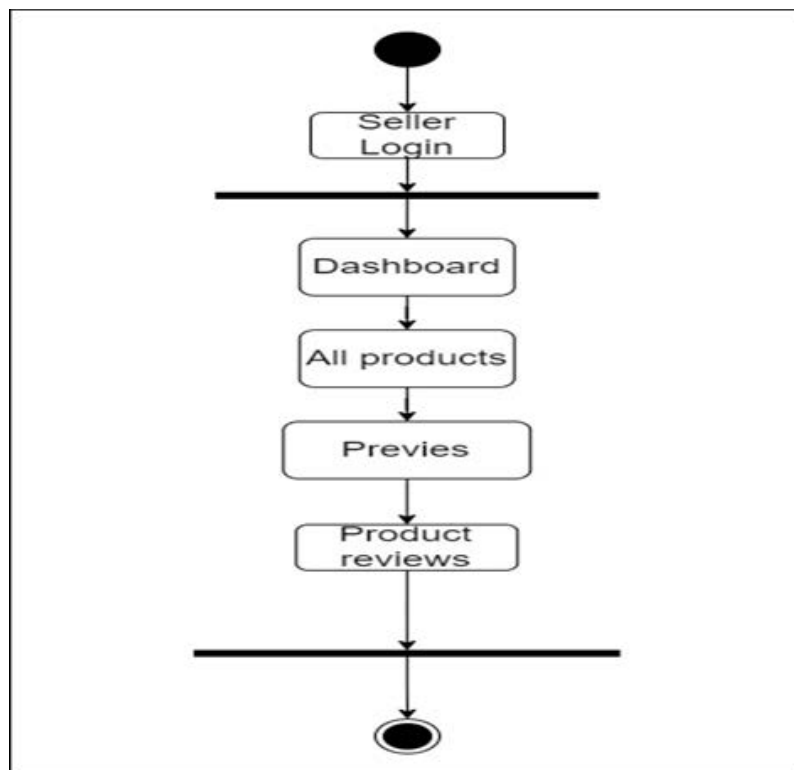


Figure 4.20 Seller Reviews Activity Diagram

4.26 Activity diagram for Seller profile:

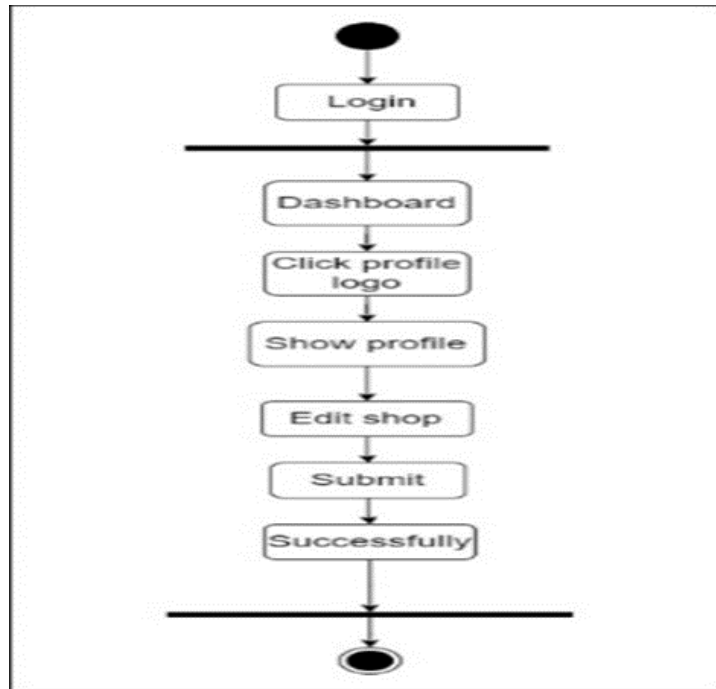


Figure 4.21 Seller Profile Activity Diagram

4.27 Activity diagram for Admin Registration:

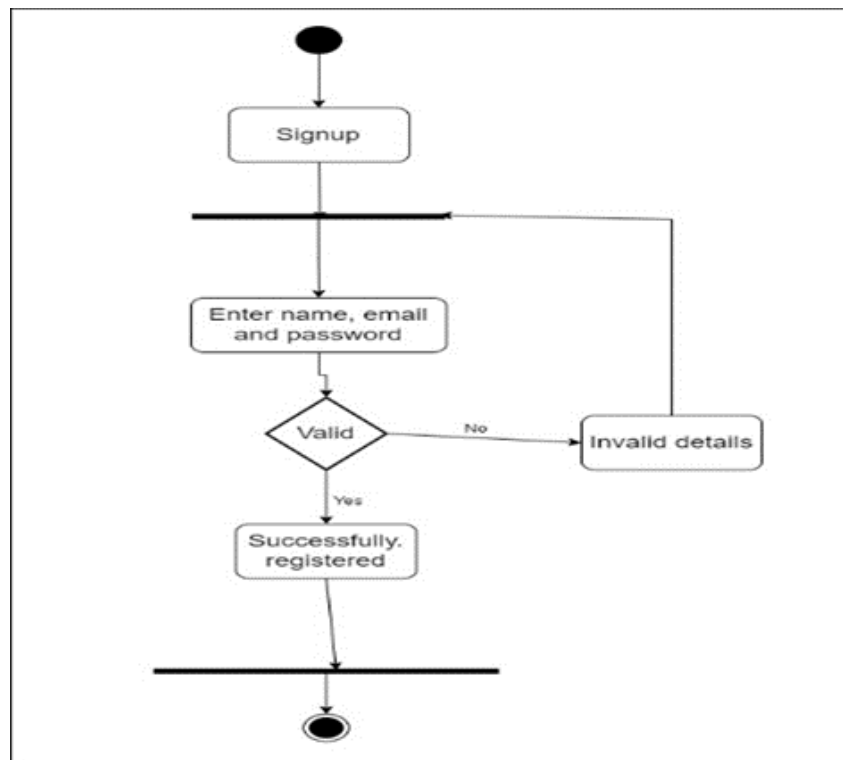


Figure 4.22 Admin Registration Activity Diagram

4.28 Activity diagram for Admin Login:

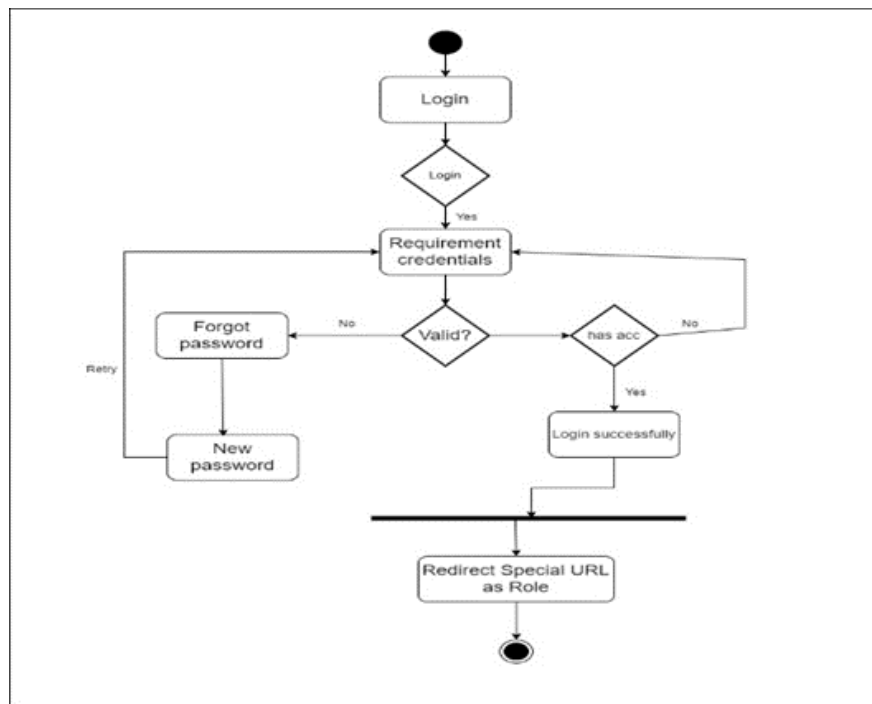


Figure 4.23 Admin Login Activity Diagram

4.29 Activity diagram for vendor Management Admin:

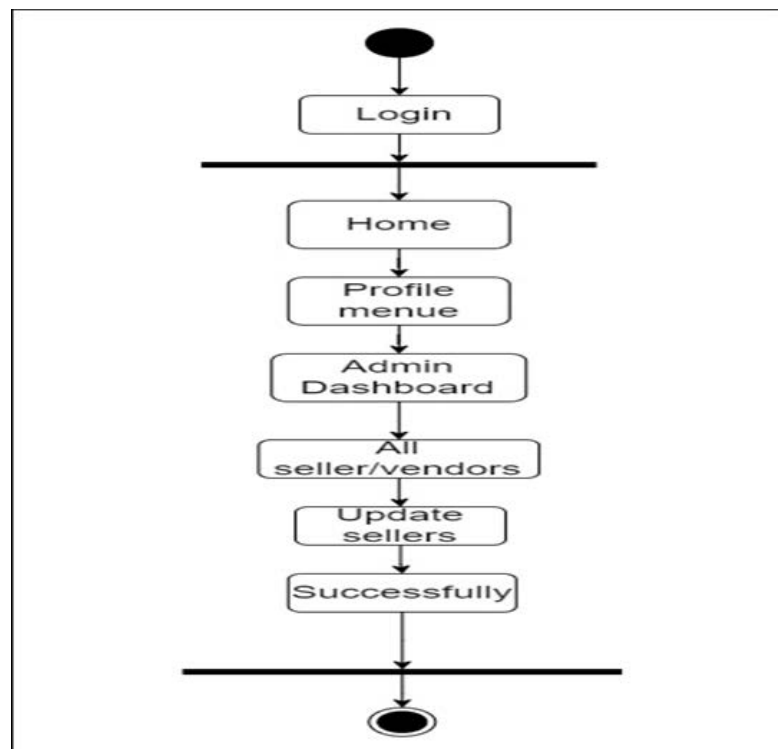


Figure 4.24 Admin Vendor Management Activity Diagram

4.30 Activity diagram for Admin Product management:

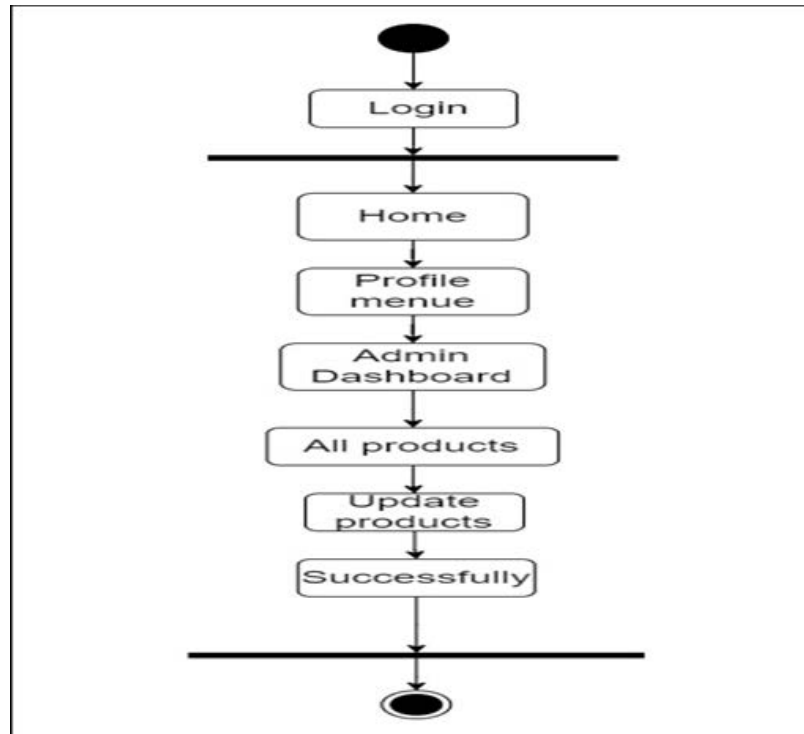


Figure 4.25 Admin Product Management Activity Diagram

4.31 Activity diagram for Admin User management:

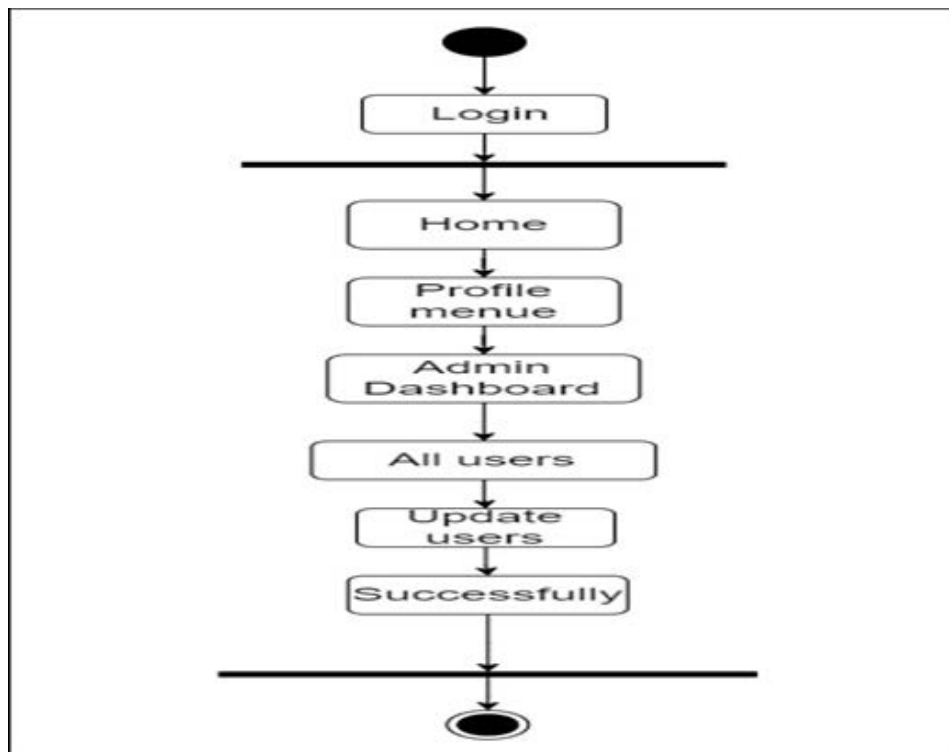


Figure 4.26 Admin User Management Activity Diagram

4.32 Activity diagram for Admin Seller management:

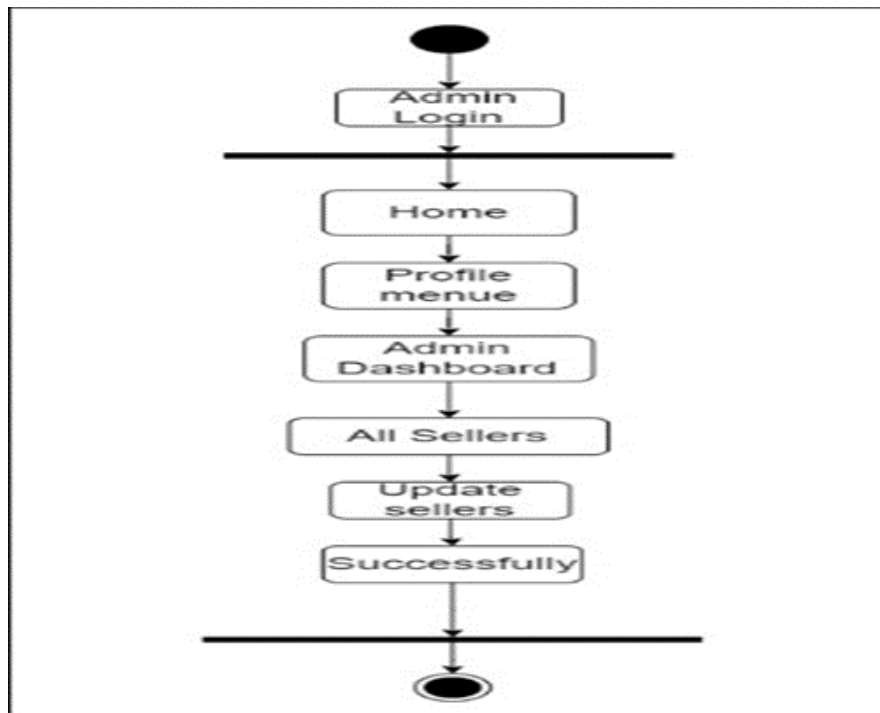


Figure 4.27 Admin Seller Management Activity Diagram

4.33 Activity diagram for Admin Payment management:

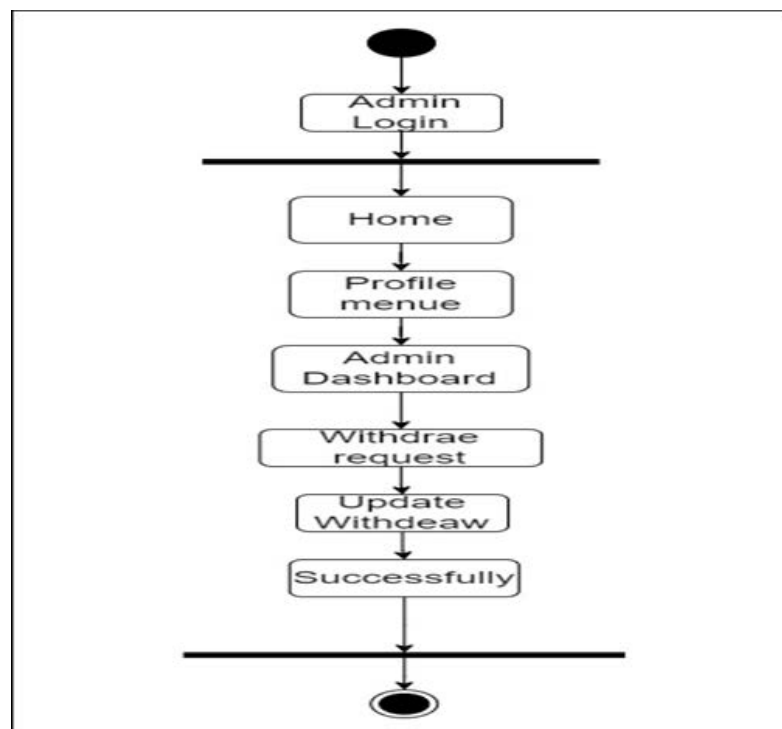


Figure 4.28 Admin Payment Management Activity Diagram

4.34 Activity diagram for Admin Content management:

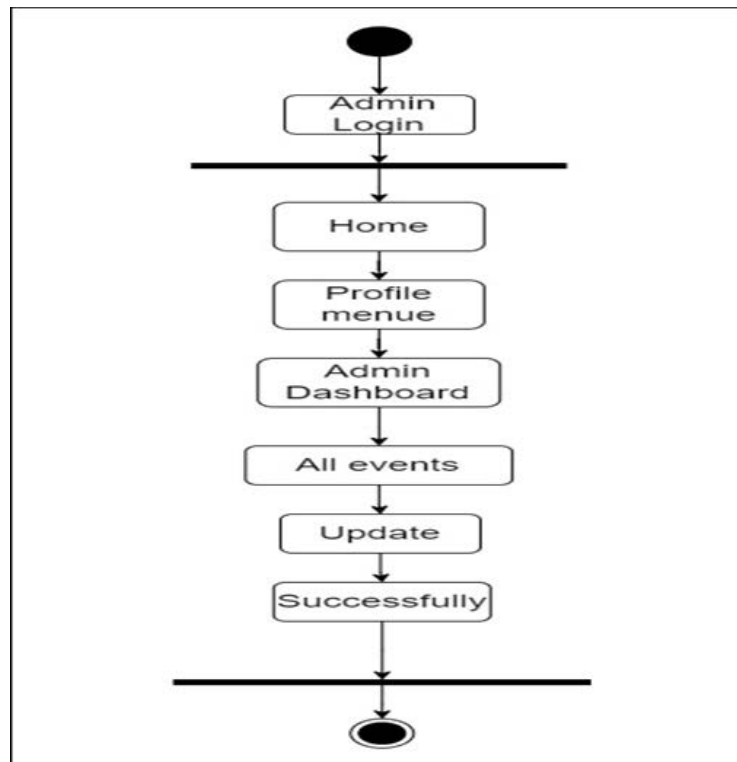


Figure 4.29 Admin Content Management Activity Diagram

4.35 Sequence Diagram:

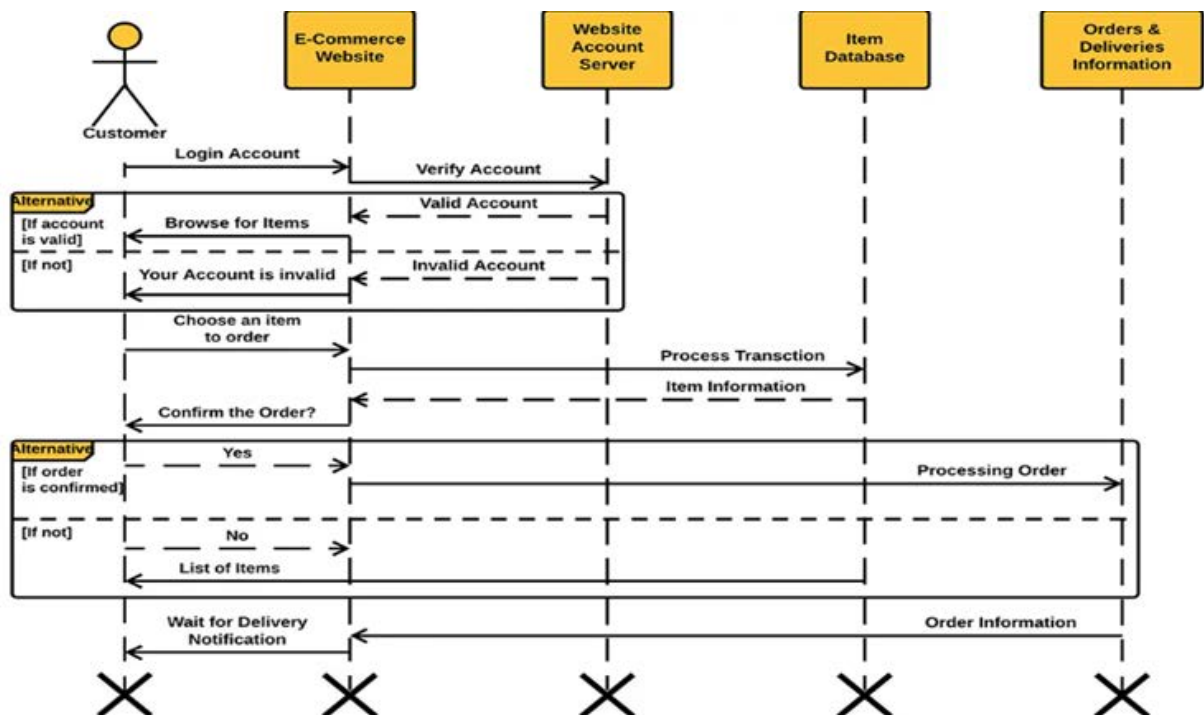


Figure 4.30 Sequence Diagram

4.36 Diagram of ER:

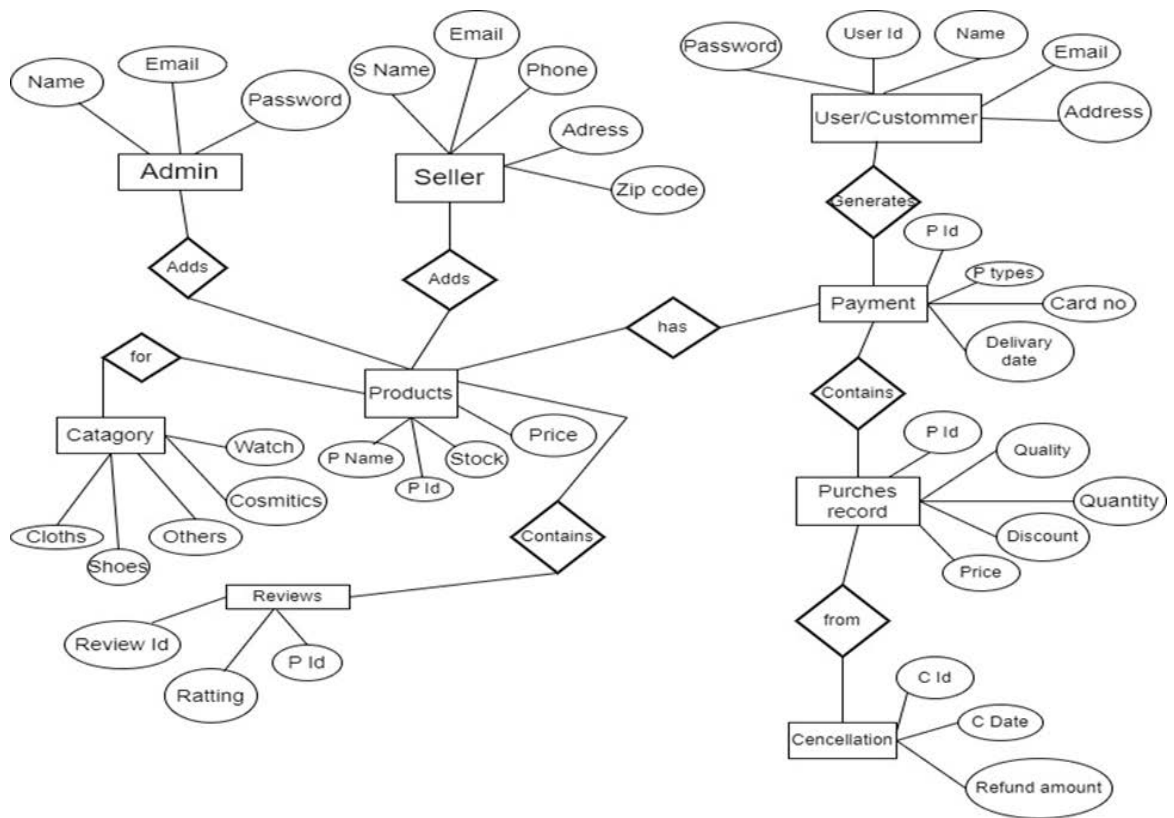


Figure 4.31 Diagram

User manual

Login to your account

Email address
user1@gmail.com

Password

☐ Remember me [Forgot your password?](#)

[Submit](#)

Not have any account? [Sign Up](#)

Register as a new user

Full Name
Anfuzzaman

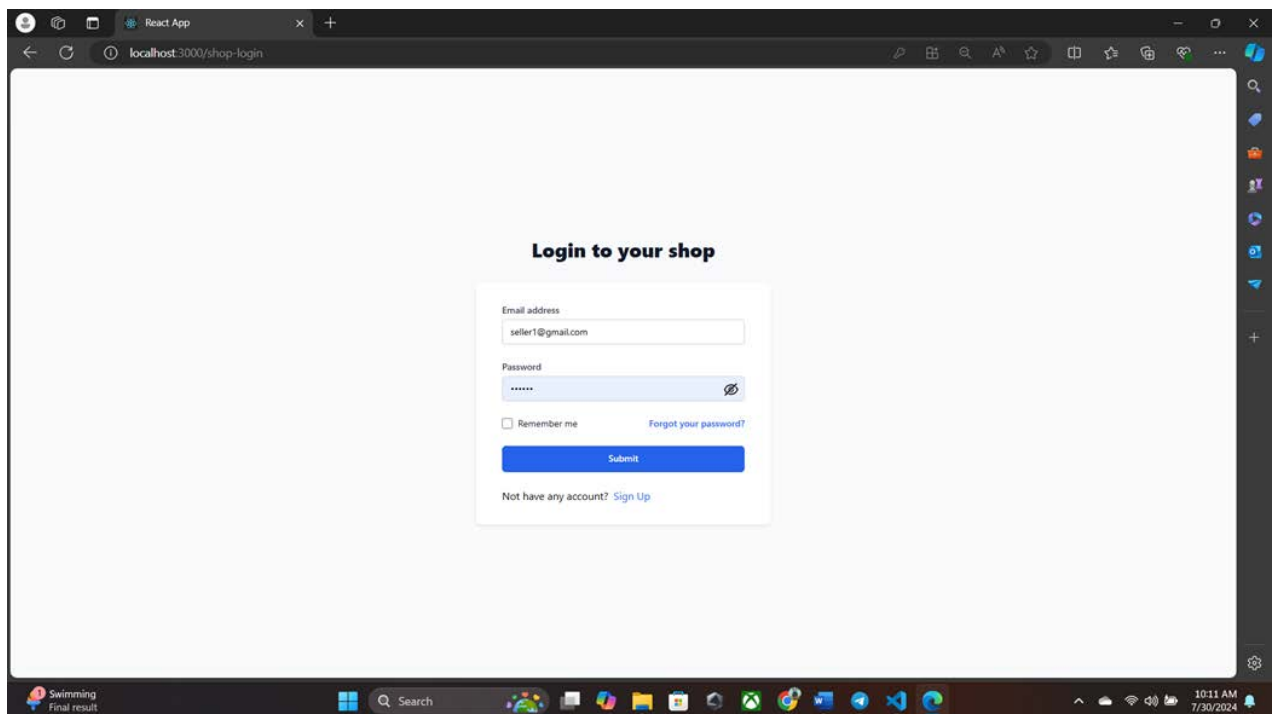
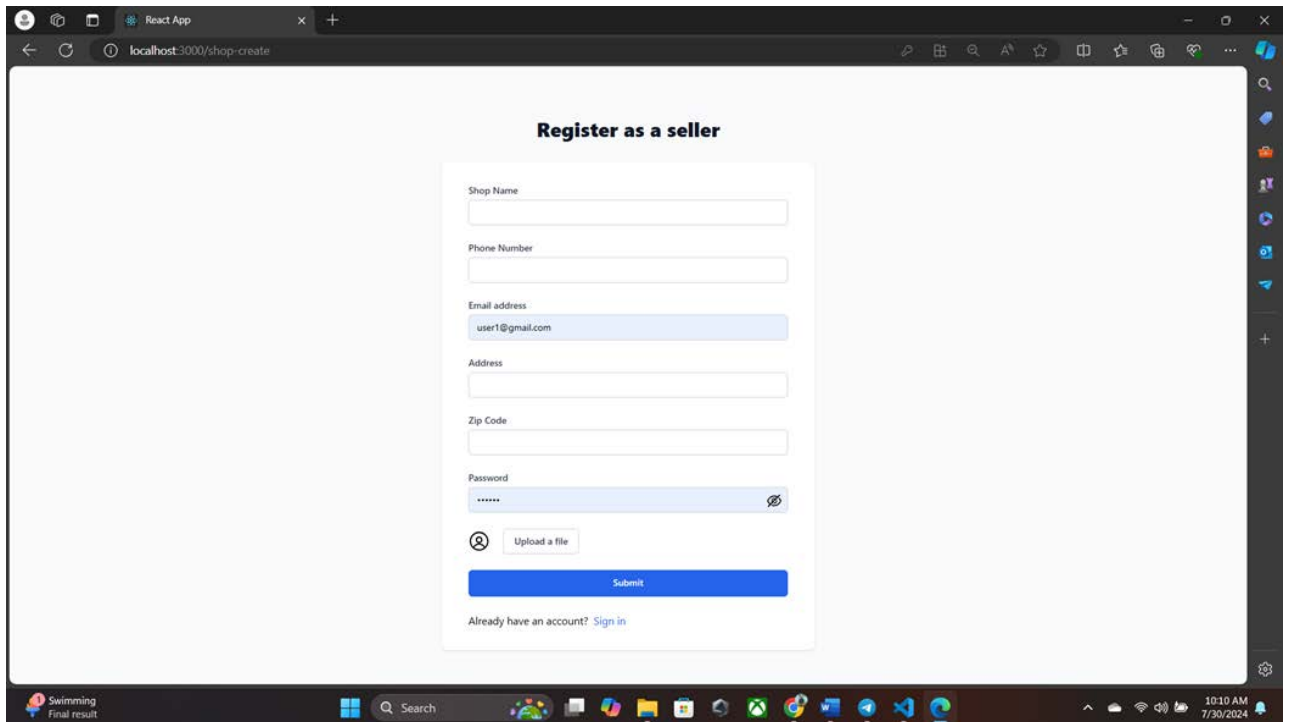
Email address
user1@gmail.com

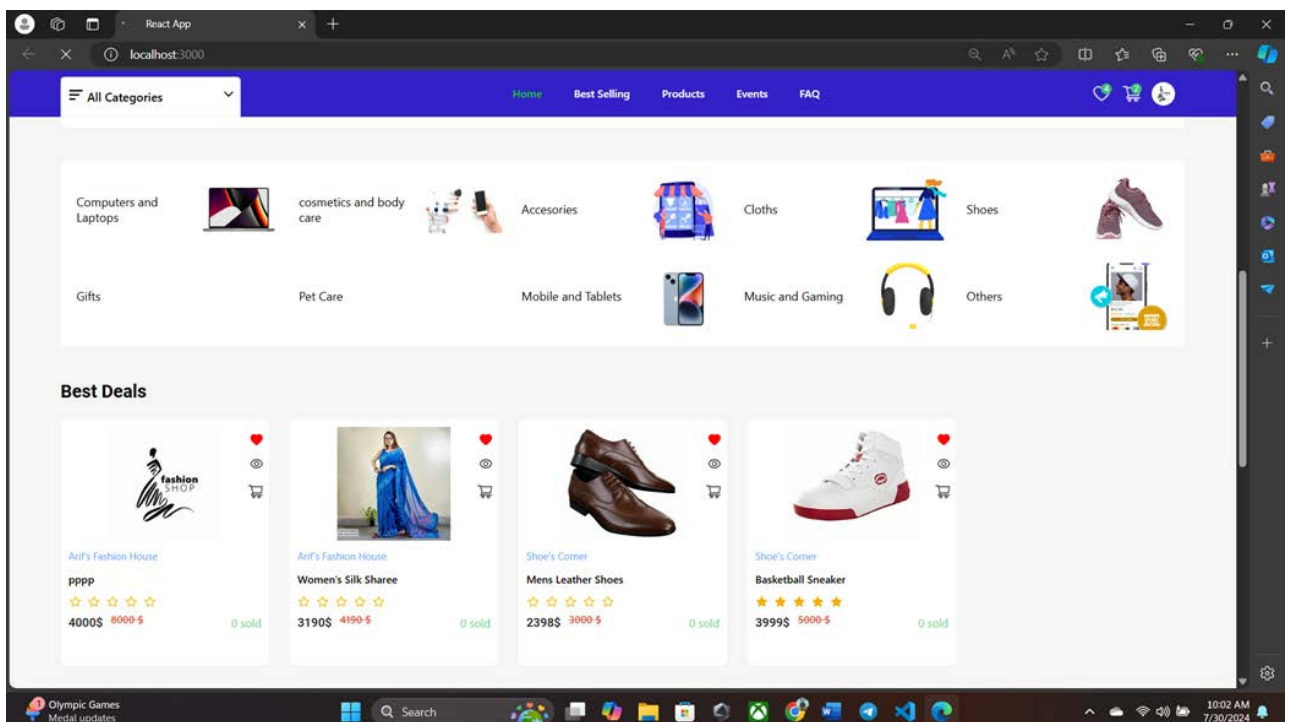
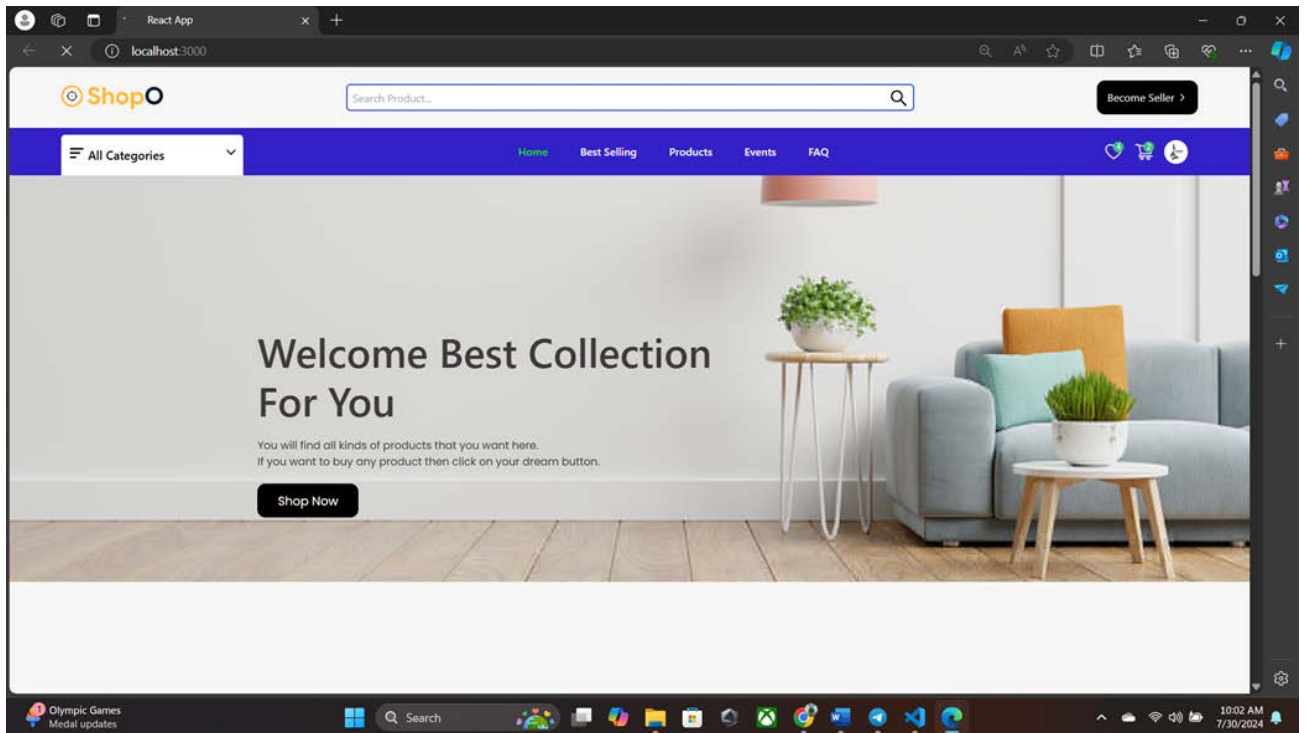
Password

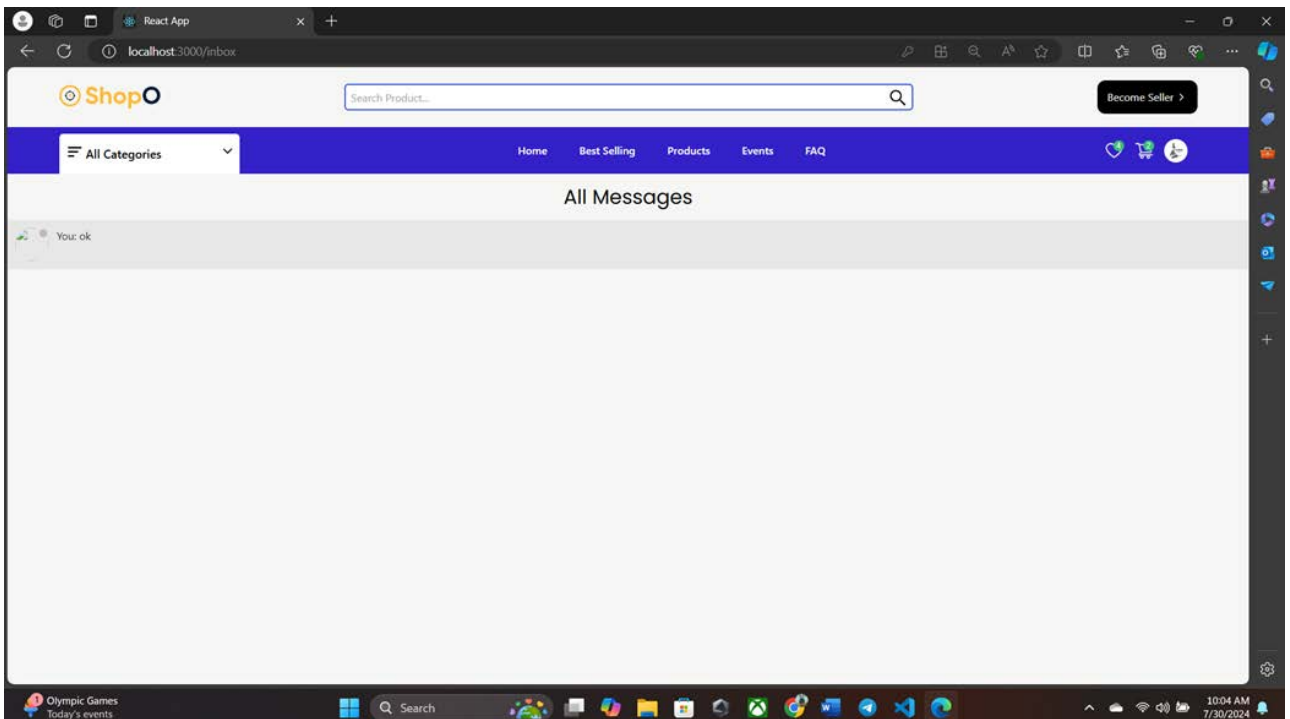
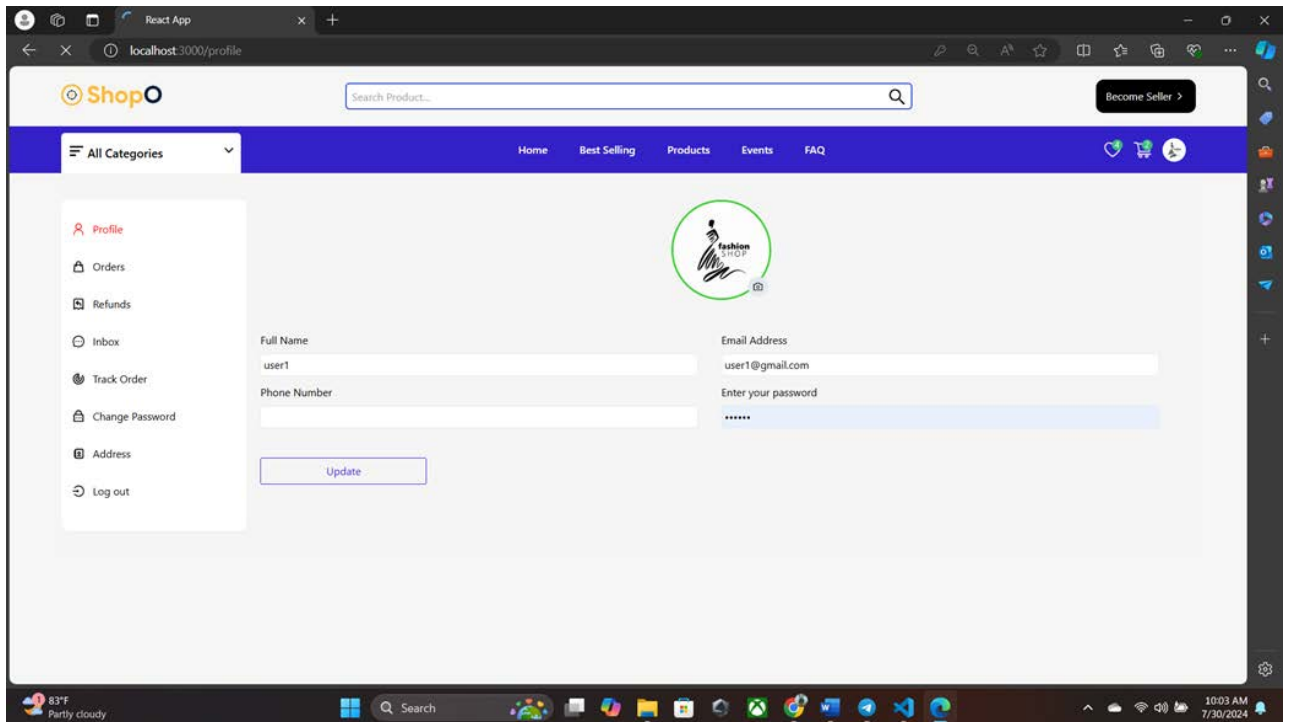
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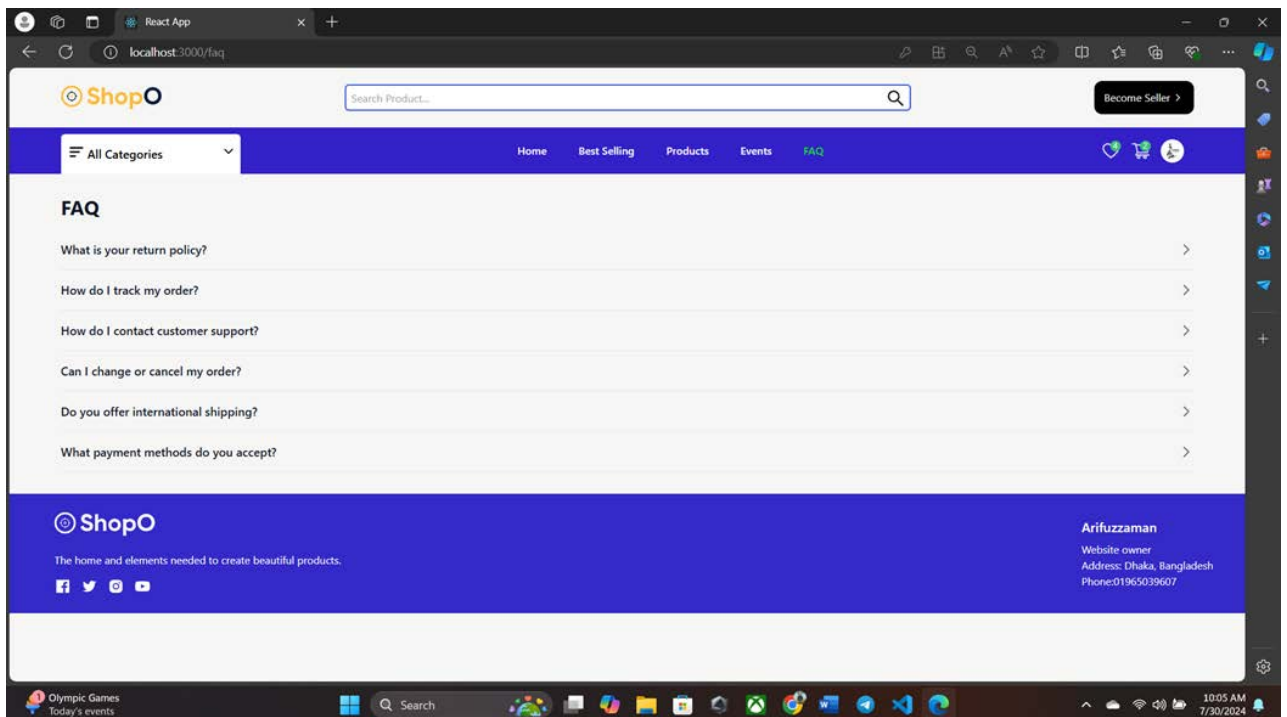
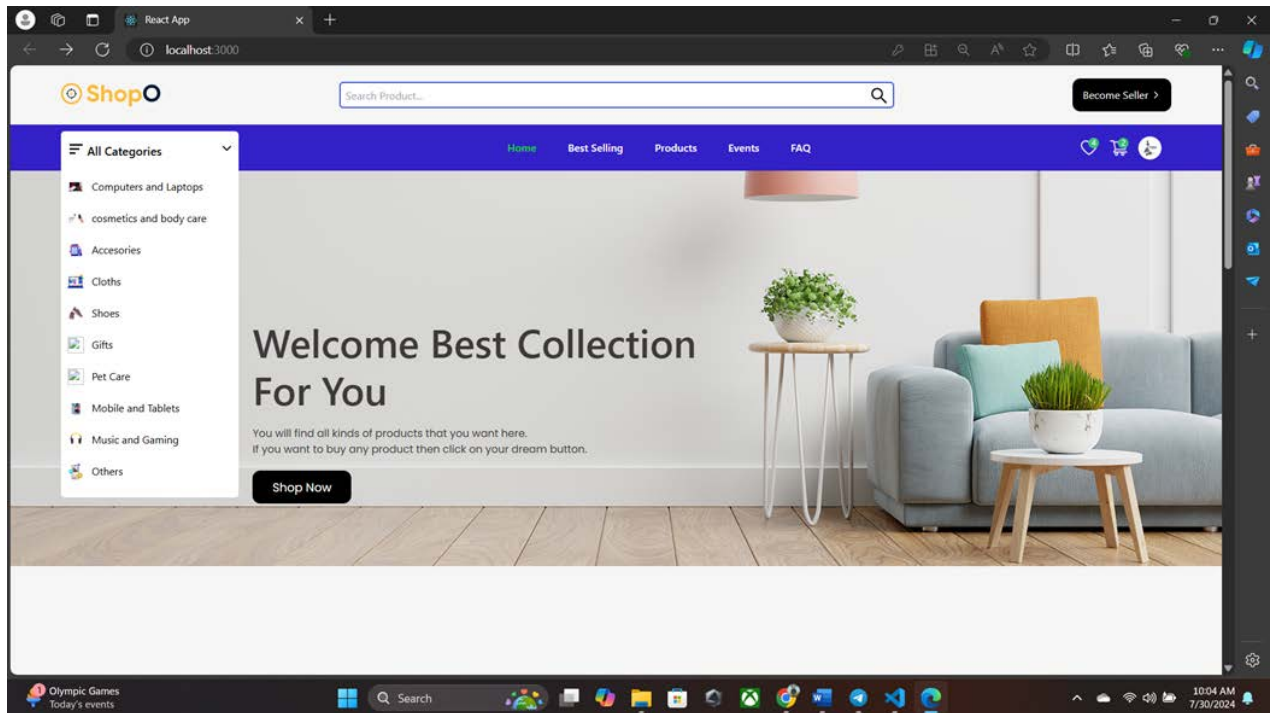
[Submit](#)

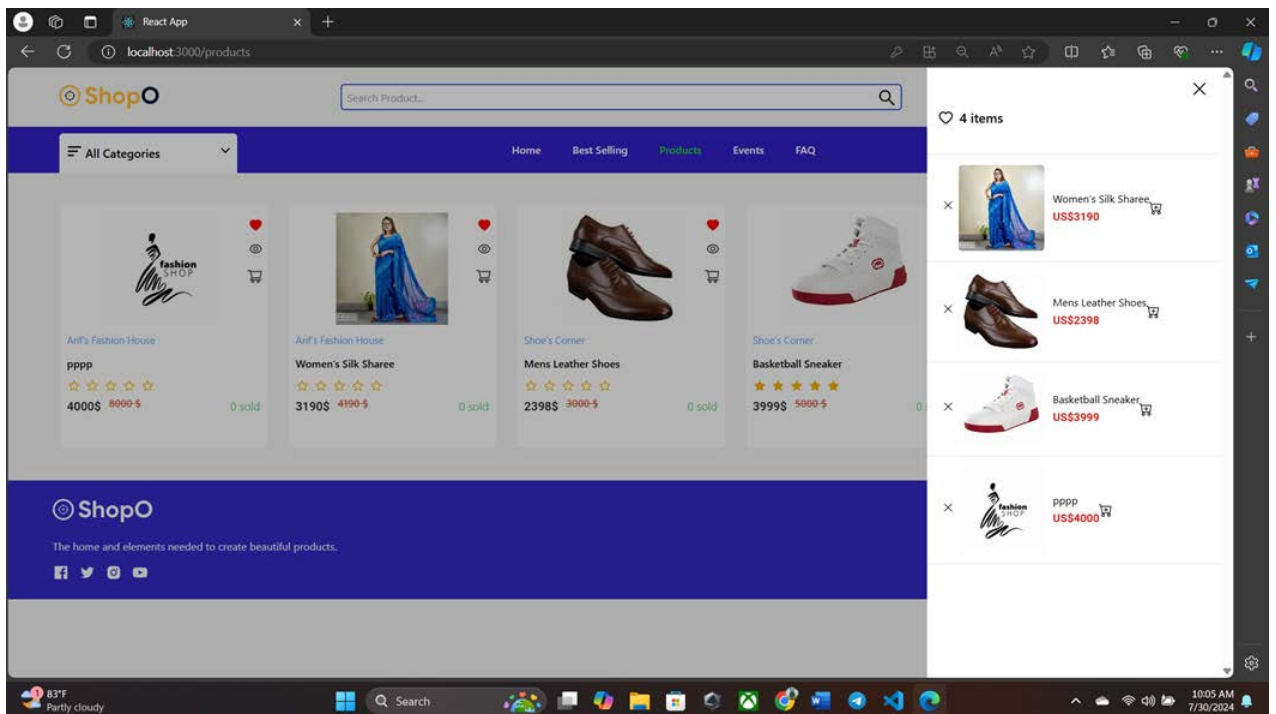
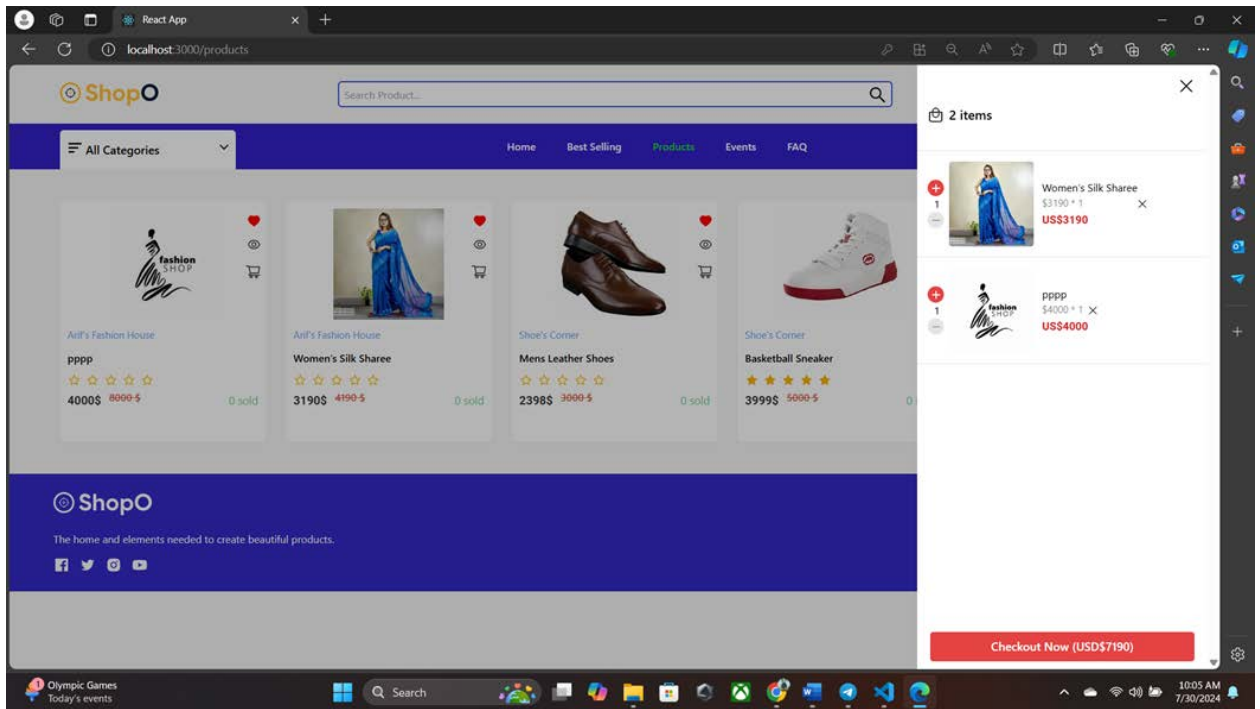
Already have an account? [Sign In](#)

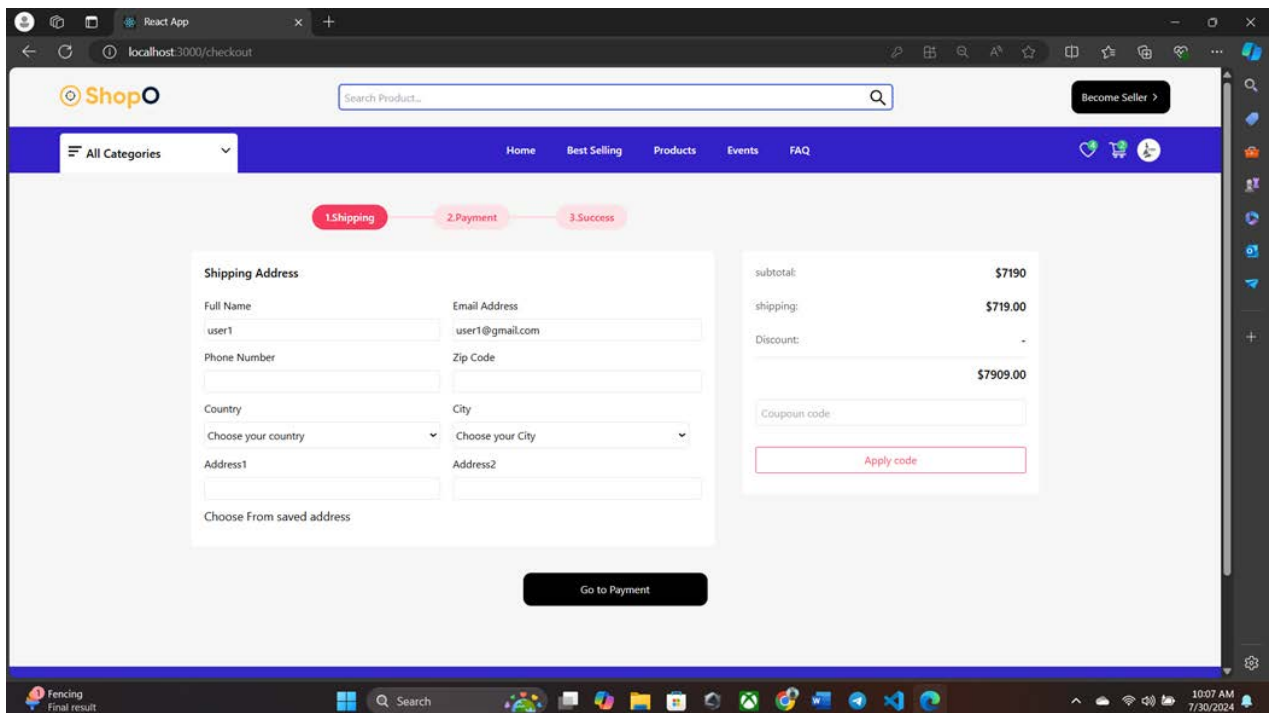
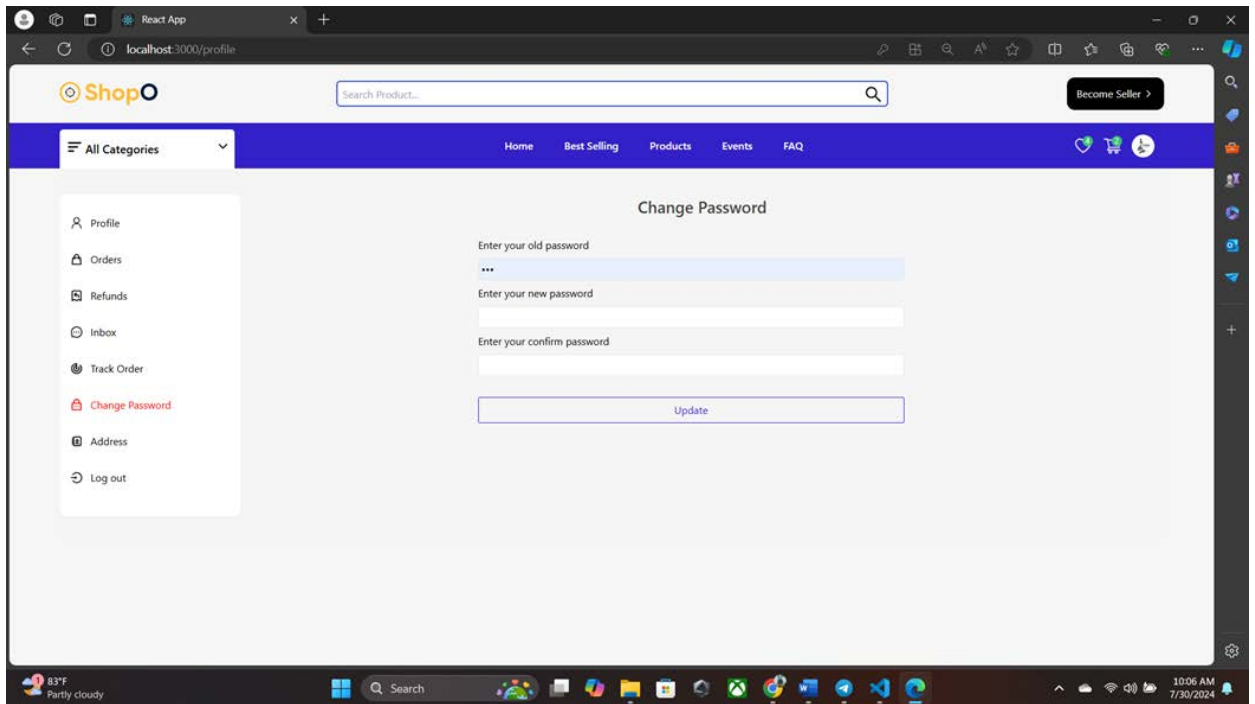


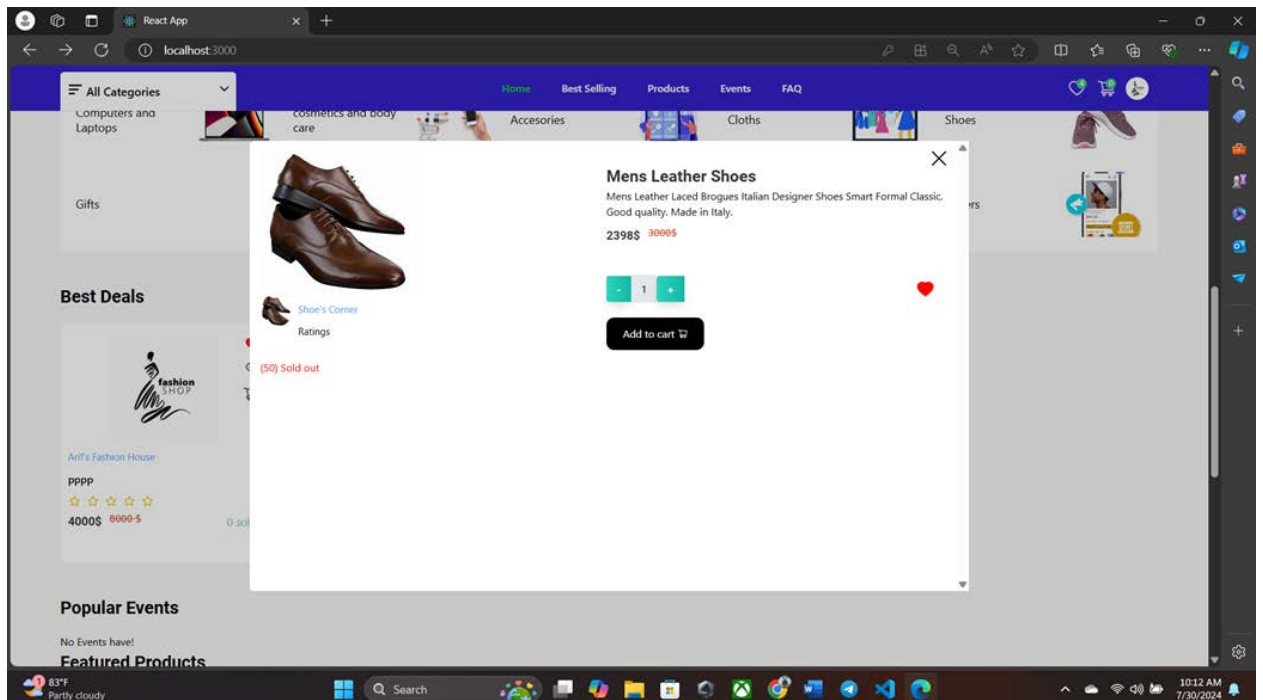
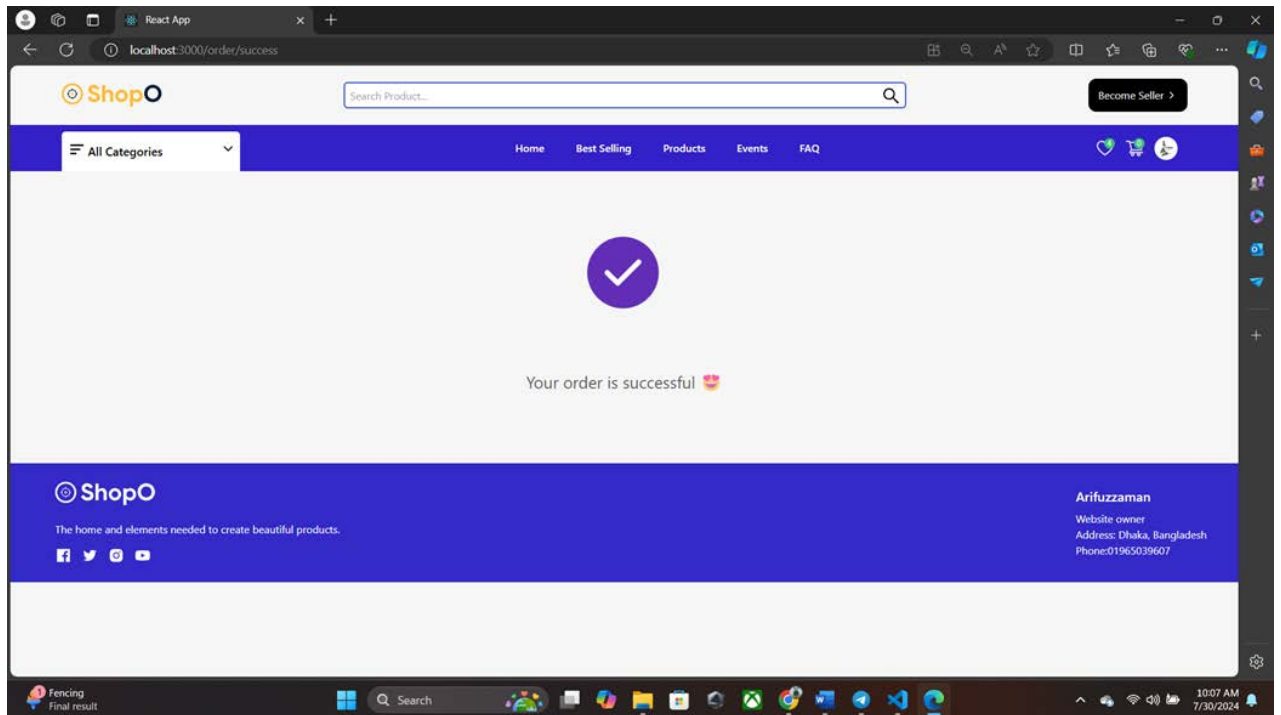


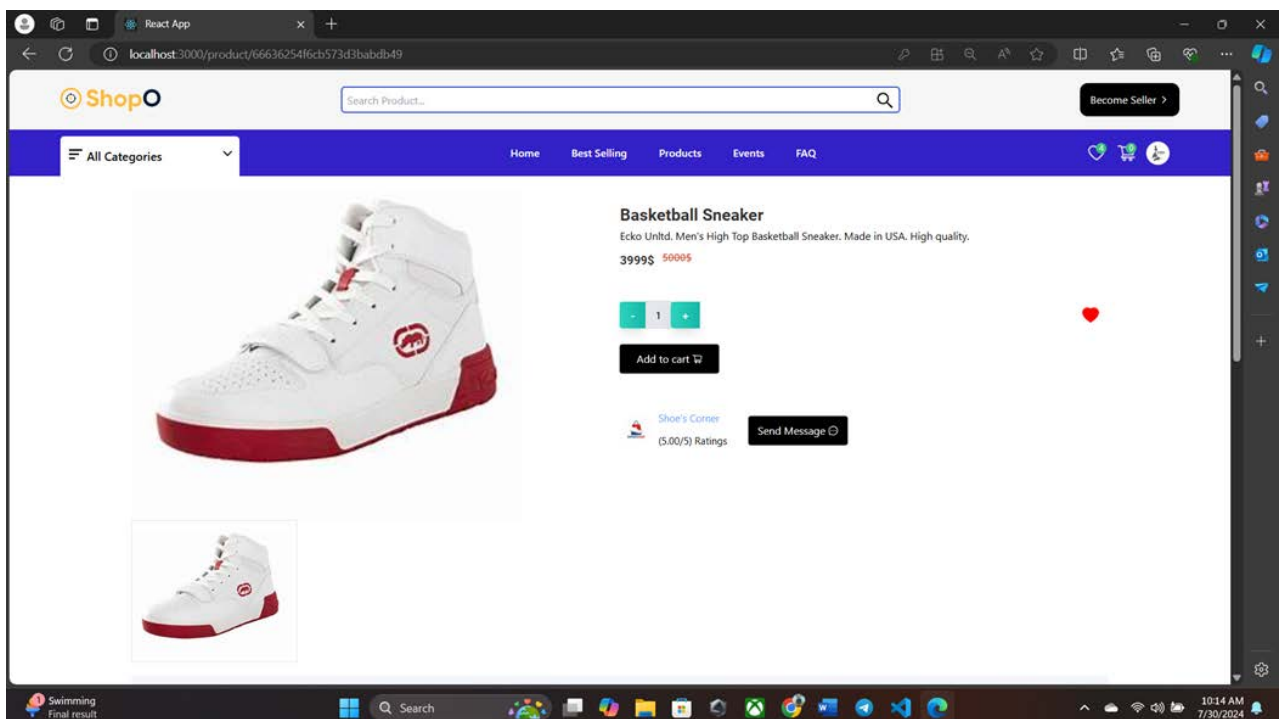
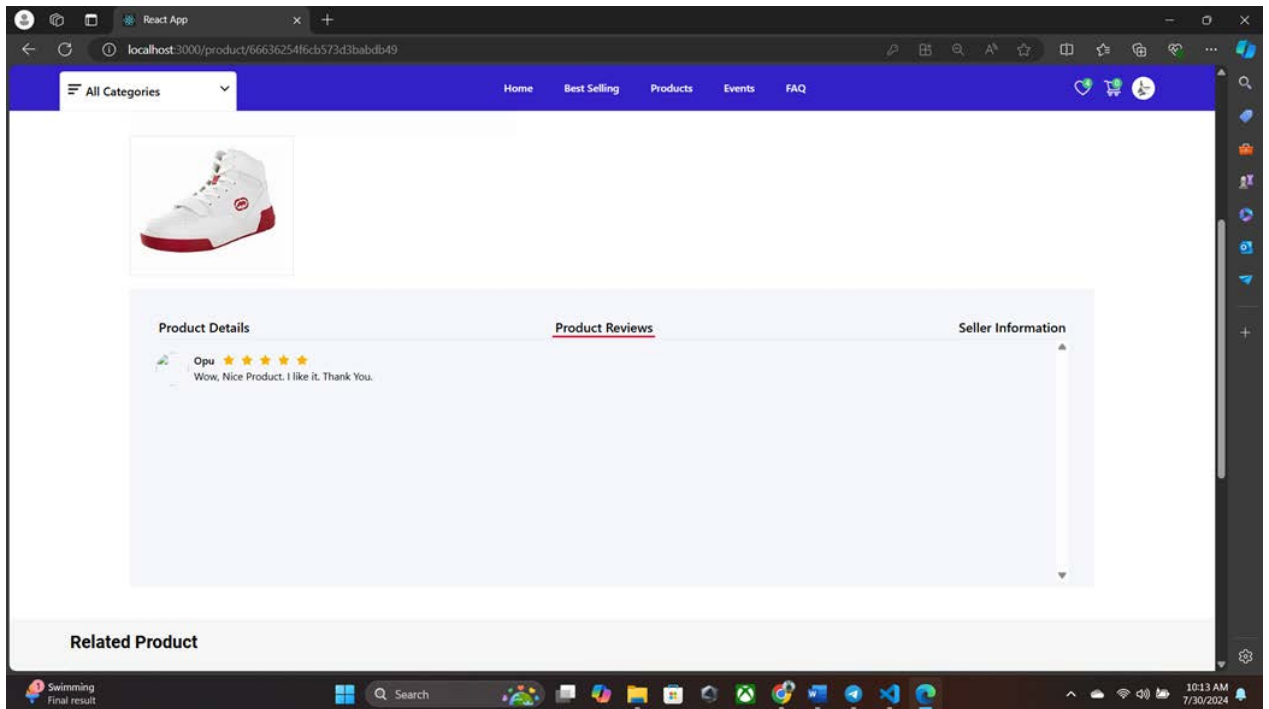












The screenshot shows the ShopO Admin Dashboard. The left sidebar contains navigation links: Dashboard, All Orders, All Sellers, All Users, All Products, All Events, Withdraw Request, and Settings. The main content area is titled 'Overview' and features three summary cards: 'Total Earning' at \$ 3796.05, 'All Sellers' at 6 (with a 'View Sellers' link), and 'All Orders' at 16 (with a 'View Orders' link). Below these is a 'Latest Orders' table.

Order ID	Status	Items Qty	Total	Order Date
666368ba959bc31f1e26ac1f	Delivered	1	4398.9 \$	2024-06-07
66619cd2859586641f79ec	Delivered	1	330 \$	2024-06-06
6660d946a89808cd4798bb2d	Delivered	1	658.9 \$	2024-06-05
6660c035f20a97336d039bc	Processing refund	1	53.9 \$	2024-06-05

At the bottom right of the table, it shows '1-4 of 16' with navigation arrows.

The screenshot shows the ShopO Admin Sellers page. The left sidebar is the same as the dashboard. The main content area is titled 'All Users' and displays a table of sellers.

Seller ID	name	Email	Seller Address	joinedAt	Preview Shop	Delete Seller
668dc2fe55fb2b848b821...	Apple	opu368@gmail.com	Dhaka,Bangladesh	2024-07-09		
668dc2846237de3b6929...	Apple	opu22@gmail.com	Dhaka,Bangladesh	2024-07-09		
668dc22f4154e5816854...	Apple5	opu8@gmail.com	Dhaka,Bangladesh	2024-07-09		
668dc2324154e5816854...	Apple5	opu8@gmail.com	Dhaka,Bangladesh	2024-07-09		
668d40aa540f6bc1d960...	Shoe shop	seller1@gmail.com	Dhaka,Bangladesh	2024-07-09		
668b78c5e6c667aabd55...	shop1	shop1@gmail.com	Jamalpur,Dhaka,Banglad...	2024-07-08		

At the bottom right of the table, it shows '1-6 of 6' with navigation arrows.

CHAPTER 5

Project Summary

5.1 Limitations:

- ❖ Lack of Personal Touch: No face-to-face interaction, which can impact customer service.
- ❖ Technical Issues: Website downtime or slow load times can deter customers.
- ❖ Shipping Delays: Delivery issues can cause customer dissatisfaction.
- ❖ Dependency on Internet Access: Requires stable internet connectivity.

5.2 Obstacles:

- ❖ Risk of cyber-attacks and data breaches.
- ❖ Managing timely delivery and returns.
- ❖ Website crashes and maintenance.

5.3 Achievements:

- ❖ Access to a worldwide customer base.
- ❖ 24/7 availability for shopping.
- ❖ Tailored recommendations using data analytics.

5.4 Future Scope:

- ❖ Enhanced personalization and customer service.
- ❖ Virtual try-ons and immersive shopping.
- ❖ Improved transaction security and transparency.
- ❖ Shopping via voice-activated devices.
- ❖ Eco-friendly practices and products.

References

1. System Development Life Cycle:

<https://searchsoftwarequality.techtarget.com/definition/systems-development-life-cycle>
[e](#)

2. Diagram Art:

<https://www.draw.io>

3. Some idea from:

<https://data-flair.training/>

4. GitHub:

<https://github.com/Arifuzzaman1M/E-Commerce-Shop-1st-Project.git>

[illegible]