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CERTIFICATE

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Abstract:

SwiftMart is an ambitious e-commerce project with a primary objective to create a comprehensive and adaptable online marketplace, reminiscent of Amazon, a global e-commerce giant.

This platform is designed to deliver a seamless and secure shopping experience for customers and empower sellers to efficiently list and manage their products.

Drawing inspiration from Amazon's achievements, SwiftMart strives to offer an extensive product selection, order processing, ensure dependable payment transactions, and implement robust user management systems. This project endeavors to bridge the gap between buyers and sellers in a feature-rich and scalable e-commerce environment, facilitating a thriving online marketplace to Amazon.

Introduction:

SwiftMart is an ambitious e-commerce venture aimed at revolutionizing the online marketplace landscape. Much like Amazon, SwiftMart seeks to craft a comprehensive and adaptable platform.

Its overarching goal is to provide customers with a shopping experience that seamlessly combines security and user-friendliness, while simultaneously empowering sellers to efficiently manage their product listings.

Taking inspiration from Amazon's remarkable achievements, SwiftMart is committed to offering an extensive array of products, streamlining the order processing system, ensuring the reliability of payment transactions, and implementing robust user management features. In essence, this project endeavors to bridge the gap between buyers and sellers within a feature-rich and scalable ecommerce ecosystem, with the ultimate aim of creating a thriving online marketplace that rivals Amazon's unparalleled success.

❖ Technology and tools used

❖ Technology:

- ❖ MERN Stack (MongoDB, Express.js, ReactJS, Node.js)

❖ Tools

- ❖ Git and GitHub
- ❖ Visual studio code
- ❖ MongoDB Compass
- ❖ Thunder Client

Software Requirement Specification:

Functional requirements:-

The software needs to support three categories of functionalities as described below:

Admin

- **R1: Log in to the Website**

Description:

Users must be able to log in to the website using their credentials to access their accounts and perform various actions.

Inputs:

Username: A unique identifier for the user's account.

Password: A secure combination of characters to authenticate the user.

Outputs:

Successful login message: A confirmation that the user has been successfully logged in.

Error message for invalid credentials: An error message displayed when the provided username or password is incorrect.

Process:

Users enter their username and password into the login form.

The system validates the credentials against the stored user database.

If the provided username and password match an existing user account, the user is granted access to the system, and a successful login message is displayed. In case of invalid credentials, an error message is shown, and the user is not granted access.

- **R2: Product Approval**

Description:

This requirement ensures that products can be submitted for approval and reviewed by authorized administrators.

R2.1: Submit Product for Approval

Description:

Sellers should be able to submit their products for approval before they are made available for websites.

Inputs:

Product details: Information about the product, such as name, description, images, price, etc.

Outputs:

Confirmation message for successful submission: A message displayed to the seller confirming that the product has been successfully submitted for approval.

Process:

Sellers access their account dashboard and navigate to the "Submit Product" section.

They provide the necessary details about the product, such as name, description, images, price, etc.

The system validates the product information to ensure it meets the required criteria for submission.

If the product information is valid, the system marks the product as "pending approval" and stores the details in the database.

A confirmation message is displayed to the seller, indicating that the product has been successfully submitted for approval.

R2.2: Review Product for Approval

Description:

Authorized administrators should be able to review and approve

Product submitted by sellers.

Inputs:

List of pending products: The products that are awaiting approval by administrators.

Outputs:

Approval status: Indicates whether the product is approved or rejected.
Notification to the seller: A notification sent to the seller informing them about the approval status.

Process:

Administrators access the "Product Approval" section in the admin dashboard, where they can view the list of pending products. They review the product details, ensuring they comply with the required standards and guidelines. Based on the review, administrators can either approve or reject the product. The system updates the product's approval status accordingly in the database. A notification is sent to the seller, informing them about the approval decision

- **R3: Categories Product / Sorting**

Description:

Users should be able to browse products based on categories and apply sorting criteria to view products in particular order.

Inputs:

Product categories: Users can select a specific category to view related products. Sorting criteria: Users can choose to sort products based on various criteria like price, popularity, etc.

Outputs:

List of products: Displayed based on the selected category or sorting criteria.

Process:

Users select a product category or choose a sorting option from the website interface. The system processes the selection and retrieves products that belong to the chosen category or sorts the products based on the selected criterion. The list of products meeting the criteria is displayed on the user's screen.

- **R4: Updating Product Details**

Description:

Sellers must be able to update product information whenever necessary.

Inputs:

Product ID: A unique identifier for the product that needs to be updated.

Updated product details: New information about the product, such as name, description, images, etc.

Outputs:

Confirmation message for successful update: A message displayed to the seller confirming that the product details have been successfully updated.

Notification to the seller: A notification sent to the seller informing them about the product update.

Process:

Sellers access their products and select the one they want to update.

They input the new product details, such as name, description, images, etc.

The system validates and updates the product information in the database.

A confirmation message is displayed to the seller, and they receive a notification about the update.

- **R5: Preparing Statistics for Products, Sellers, and Customers**

Description:

The system should generate statistical reports and insights about products, sellers, and customers based on selected metrics and date ranges.

Inputs:

Date range (optional): Users can specify a date range for the statistics they want to analyze. Statistical metrics selection: Users can choose specific metrics like sales volume, revenue, ratings, etc.

Outputs:

Statistical reports and insights: Data-driven reports displaying information based on the selected metrics and date range.

Process:

Administrators access the statistics section and specify the date range and metrics they want to analyze.

The system gathers relevant data from the database and processes it to generate statistical reports. The reports are displayed, providing insights into products, sellers, and customers.

- **R6: Maintaining Trending Section**

Description:

The system should automatically maintain a trending section to showcase popular products.

Inputs:

Trending products criteria: The system determines trending products based on predefined criteria, such as high sales or positive reviews.

Outputs:

List of trending products: Displayed in a dedicated section on the website.

Process:

The system continuously tracks product performance metrics, such as sales and ratings. Based on predefined trending criteria, it identifies products that qualify as "trending." The trending products are displayed in a dedicated section on the website.

- **R7: Track Product Location**

Description:

The system should provide functionality to track the location of a specific product.

Inputs:

Product ID: A unique identifier for the product whose location needs to be tracked.

Outputs:

Product location information: Details about the current or last known location of the specified product.

Process:

The system has access to product location data, which could be collected through various means, such as GPS tracking or manual entry.

Users input the Product ID and request location information.

The system retrieves and displays the relevant location details for the specified product.

- **R8: Remove Product**

Description:

Authorized administrators should be able to remove a product from the system when necessary.

Inputs:

Product ID: A unique identifier for the product that needs to be removed.
Reason for removal (optional): Administrators can provide an optional reason for removing the product.

Outputs:

Confirmation message for successful removal: A message displayed to the administrator confirming the successful removal of the product.

Notification to the seller: A notification sent to the seller informing them about the product removal.

Process:

Authorized administrators access the product removal feature.
They input the Product ID and may provide an optional reason for removal.
The system removes the product from the database and displays a confirmation message. The seller receives a notification about the product's removal.

- **R9: Remove Seller**

Description:

Authorized administrators should be able to remove a seller's account from the systems.

Inputs:

Seller ID: A unique identifier for the seller's account that needs to be removed.
Reason for removal (optional): Administrators can provide an optional reason for removing the seller.

Outputs:

Confirmation message for successful removal: A message displayed to the administrator confirming the successful removal of the seller's account.

Notification to the seller: A notification sent to the seller informing them about the account removal.

Process:

Authorized administrators access the seller removal feature.
They input the Seller ID and may provide an optional reason for removal.

The system disables the seller's account and removes associated products from the database. A confirmation message is displayed, and the seller receives a notification about the account removal.

- **R10: Make Payment**

Description:

- Customers should be able to make payments for their orders through the website.

Inputs:

- Customer payment information: Payment details, such as credit card or PayPal information.
- Order details: Information about the order, including product IDs and quantities.

Outputs:

- Payment confirmation: A confirmation that the payment has been processed successfully.
- Order confirmation and receipt: A receipt displaying order details and payment information.

Process:

- Customers input their payment information and order details during the checkout process. The system securely processes the payment through a payment gateway.

If the payment is successful, a payment confirmation and order receipt are generated and displayed to the customer

- **R11: Logout**

Description:

- Users should be able to log out securely from their accounts.

Inputs:

None

Outputs:

- User logged out successfully message: A confirmation message displayed when the user logs out.

Process:

- Users initiate the logout process from the website interface.
- The system clears the user's session data and displays a "logged out successfully" message.

User

• **R1. Register in platform**

R.1.1 Display the register option

Input:- select registration option

Output:-system prompt the registration form

State:- registration page

R.1.2 Get Registration the detail

Input:- User enter the detail in registration form

Output:- Error Message if details are not in proper format

Eg. Email has @ or not

Process:- system checks this details are acceptable or not

R.1.3Set Username And password

Input:- Enter Username and password

Output:- if username is already exist show error message

Process:- check this username exist or not

R.1.4Submit the Registration form

Input:- click on submit button

Output:- prompt message of successful or error

Process:- system check required filled are filled or not

• **R2.Sign in/Sign out**

R.2.1Select sign in Option

R.2.1.1Select sign in button

Input:-Select sign in button

Output:-prompt sign in form

State:- sign in page

R.2.1.2 Enter Details

Input:- Enter username and password

Output:- prompt message error or success

Process:- System check Username and password are matched not

State:- Home page

- **R3. Search the product**

Description:- User search a product through search bar

R.3.1 Select Search bar

Input:- Enter product details

Output:- Display Related products

Process:- System matches given details with its database and shows related products .

- **R4. Open the product**

R.4.1clicks on product

Input :-user clicks on product which he chooses

Output:- separate page about that product appears

Process :- system fetches product details from database and displays separate page about product

- **R5. Add to favorites**

R.5.1Add the chosen product to users favorites product list

Input:-user clicks on heart icon on product page

Output:-Product is added in users favorite products list

- **R6. Add to cart**

R.6.1Select Add to cart button

Input :- user clicks on on add to cart button

Output :- product is add into cart (buying list)

- **R7. Purchase product**

R.7.1 User wants to purchase product

Input :- user clicks on purchase button

Output :- User is Provided summary of product

State : - user clicks on continue button

R.7.2 Enter residential details

Input :- user enters details

Output :- Details about delivery is provided to user

Process :- System calculates on which day delivery is possible

R.7.3 Make the Payment

Input :- user clicks on Payment option

Output :- Page with multiple payment option is displayed

R.7.3.1 Online payment

Input :- user clicks “online payment” option

Output :- different online payment methods are displayed

7.3.1.1 User selects payment method

Input :- User selects a method to payment

Output : - User makes payment

Process :- Money is deducted from customer and received in admin account

R.7.3.2 Offline payment

Input :- user selects “cash on delivery” option

Output :- Confirmation page is displayed

R.7.4 Confirmation of Product

Input :- user has made payment online or payment method is COD

Output :- User sees page with confirmation and delivery details

- **R8.Cancel Product**

R.8.1Cancel the product

Input :- user clicks on cancel product option

Output :- confirmation page is displayed

R.8.1.1 Agreed to cancel product

Input :- user confirms cancelation of product

Output :- Order is canceled user will be credit with amount according to purchase policy

- **R9. Track the product**

R.9.1track the product

Input :- user clicks on track product option

Output :- details of products live location is provided

Process :- products live location is shown on delivery root map

- **R10.Review Product**

R.10.1 Review the product

Input :- user clicks on review product

Output :- list of already purchased product is appeared

Process :- From database all the product which were bought by user is fetched

R.10.1.1 Select product to review

Input :- user selects a product for review

Output :- review page is displayed

R.10.1.2 Review product

Input :- user fills the review form

Output :- users review of product will be shown on website

R.10.2 Rate the Product

Input :- user rates the product out of 5

Output :- rating will be shown on website

- **R11. Share Product**

R.11.1 Share the product

Input :- user clicks on share button

Output :- link of product is copied for user

Process :- link of product is copied to clipboard of user

- **R12. Select Sign out button**

R.12.1 Log out from the system

Input:- select Sign out button

Output:- prompt message success/error

Non-Functional requirements:-

These are the requirements that are not functional in nature. Especially these are the constraints the system must work within.

Performance Requirements

- Static: Around two hundred people can use this website and will run simultaneously.
- Dynamic: Response time for the website would be less.

Safety Requirements

- In any case of website failure we can recover all our information.
- Information transmission should be securely transmitted to server without any changes in information

Security Requirements

- Only Registered Customers can access the website.
- System stores the user's password safely and doesn't share with any other applications or websites.
- Payment Process should use HTTP over Secure protocol to secure the payment transactions
- Sensitive data will be encrypted before being sent over insecure connections like the internet.
- The website must automatically log out all customers after a period of inactivity

Software Quality Attributes

- **Correctness:** This website should satisfy the normal regular Online shopping website operations precisely to fulfill the end user objectives
- **Efficiency:** Enough resources to be implemented to achieve the particular task efficiently without any hassle.
- **Flexibility:** Website should be flexible enough to provide space to add new features and to handle them conveniently
- **Integrity:** Website should focus on securing the customer information and avoid data losses as much as possible

- **Portability:** The website should run in any Microsoft Windows environment.
- **Maintainability:** The website should be maintainable.

Business Rules

- A business rule is a constraint of the business itself that may guide system development.
- It is a rule that must be followed, no matter what else is happening.
- It often involves very specific criteria or conditions for compliance.
- All users need a valid email address. In our website we need the information of the customer and the seller, their address, cell phone number, email address, name etc. to make the business effective and easy to use.
- The user can share the product information to others.
- The user can also post the review and read the reviews.

Database Design:

Table Name: users

Field Name	Data Type	Constraint	Width	Default value
_id	objectid	Auto inc	100	“ ”
address	string	Not null	100	“ ”
answer	string	Not null	50	“ ”
createdAt	date	Not null	10	“ ”
email	string	Not null	20	“ ”
name	string	Not null	20	“ ”
password	string	Not null	20	“ ”
phone	string	Not null	10	“ ”
role	int32	Not null	1	“ ”
updatedAt	date	Not null	1	“ ”

Table Name: orders

Field Name	Data Type	Constraint	Width	Default value
_id	objectid	Auto inc	100	“ ”
buyer	objectid	Not null	100	“ ”
payment	document	Not null	10	“ ”
createdAt	date	Not null	10	“ ”
products	array	Not null	200	“ ”
status	string	Not null	20	“ ”
updatedAt	date	Not null	20	“ ”

Table Name: categories

Field Name	Data Type	Constraint	Width	Default value
_id	objectid	Auto inc	100	“ ”
name	string	Not null	20	“ ”
slug	string	Not null	20	“ ”

Table Name: products

Field Name	Data Type	Constraint	Width	Default value
_id	objectid	Auto inc	100	“ ”
category	objectid	Not null	100	“ ”
createdAt	date	Not null	10	“ ”
description	string	Not null	20	“ ”
name	string	Not null	20	“ ”
photo	document	Not null	20	“ ”
price	int32	Not null	10	“ ”
quantity	int32	Not null	1	“ ”
slug	string	Not null	1	“ ”
updatedAt	date	Not null	1	“ ”

Implementation Detail:

1. User authentication

- **Function Name:** loginUser
- **Parameters:** email (String), password (String)
- **Return Type:** Asynchronous (Promise) that resolves with user data on successful login or rejects with an error message on failure.

This function prototype encapsulates the core functionality of user authentication within your React-based login component. It sends a POST request to the authentication API with the user's email and password, handles success and failure responses, and returns the appropriate data or errors.

2. Product Listing

- **Function Name:** fetchAndDisplayProducts
- **Parameters:** None (Assuming this function retrieves products based on a predefined logic or endpoint)
- **Return Type:** None (Void)

This function prototype encapsulates the core functionality of fetching and displaying products in your React component.

In your project report:

Introduce the Function Prototype: In the "Function Prototypes" section of your report, introduce the fetchAndDisplayProducts function prototype as a critical function responsible for listing and displaying products in your SwiftMart project.

Explain the Purpose: Describe how this function is utilized in your project to retrieve and display products to users. Explain its role in providing a product catalog for customers.

Implementation Details: Provide an overview of the implementation details within the function. Explain how it communicates with your backend (axios requests), updates the products state, and sets up the product listing for rendering.

Lifecycle Method: Mention that this function is called within a lifecycle method (useEffect) to ensure that products are loaded when the component is mounted.

User Experience: Describe how this functionality contributes to the user experience by presenting an array of products for users to explore and navigate.

3. Product Details

- **Function Name:** fetchAndDisplayProductDetails
- **Parameters:** slug (String), which is the product's unique identifier based on its URL.
- **Return Type:** None (Void)

This function prototype encapsulates the core functionality of fetching and displaying product details in your React component, including related/similar products.

In your project report:

Introduce the Function Prototype: In the "Function Prototypes" section of your report, introduce the fetchAndDisplayProductDetails function prototype as a critical function responsible for displaying detailed product information in your SwiftMart project.

Explain the Purpose: Describe how this function is utilized in your project to retrieve and display detailed product information based on the provided slug. Explain its role in showing related/similar products as well.

Implementation Details: Provide an overview of the implementation details within the function, including how it communicates with your backend (axios requests), updates the product and relatedProducts states, and sets up the product details and related products for rendering.

Use of Parameters: Explain the significance of the slug parameter in the context of retrieving specific product details.

User Experience: Describe how this functionality contributes to the user experience by presenting product details and suggesting related/similar products, which enhances user engagement.

4. Shopping Cart Management

- **Function Name:** addToCart
- **Parameters:** product (Object), quantity (Number)
- **Return Type:** None (Void)

This function prototype encapsulates the core functionality of adding items to the shopping cart.

In your project report:

Introduce the Function Prototype: In the "Function Prototypes" section of your report, introduce the addToCart function prototype as a critical function responsible for adding items to the shopping cart in your SwiftMart project.

Explain the Purpose: Describe how this function is utilized in your project to add products to the cart, including the product object and the desired quantity.

Implementation Details: Provide an overview of the implementation details within the function, including how it updates the cart state and persists the cart data in local storage.

Use of Parameters: Explain the significance of the product and quantity parameters in the context of adding items to the shopping cart.

User Experience: Describe how this functionality contributes to the user experience by allowing users to build their shopping cart and proceed to checkout.

5. Checkout and Order Placement

- **Function Name:** placeOrder
- **Parameters:** cart (Array) - An array of products in the cart, paymentInfo (Object)
 - Payment information.
- **Return Type:** None (Void)

This function prototype encapsulates the core functionality of placing an order, including the products in the cart and payment information.

In your project report:

Introduce the Function Prototype: In the "Function Prototypes" section of your report, introduce the placeOrder function prototype as a critical function responsible for placing orders in your SwiftMart project.

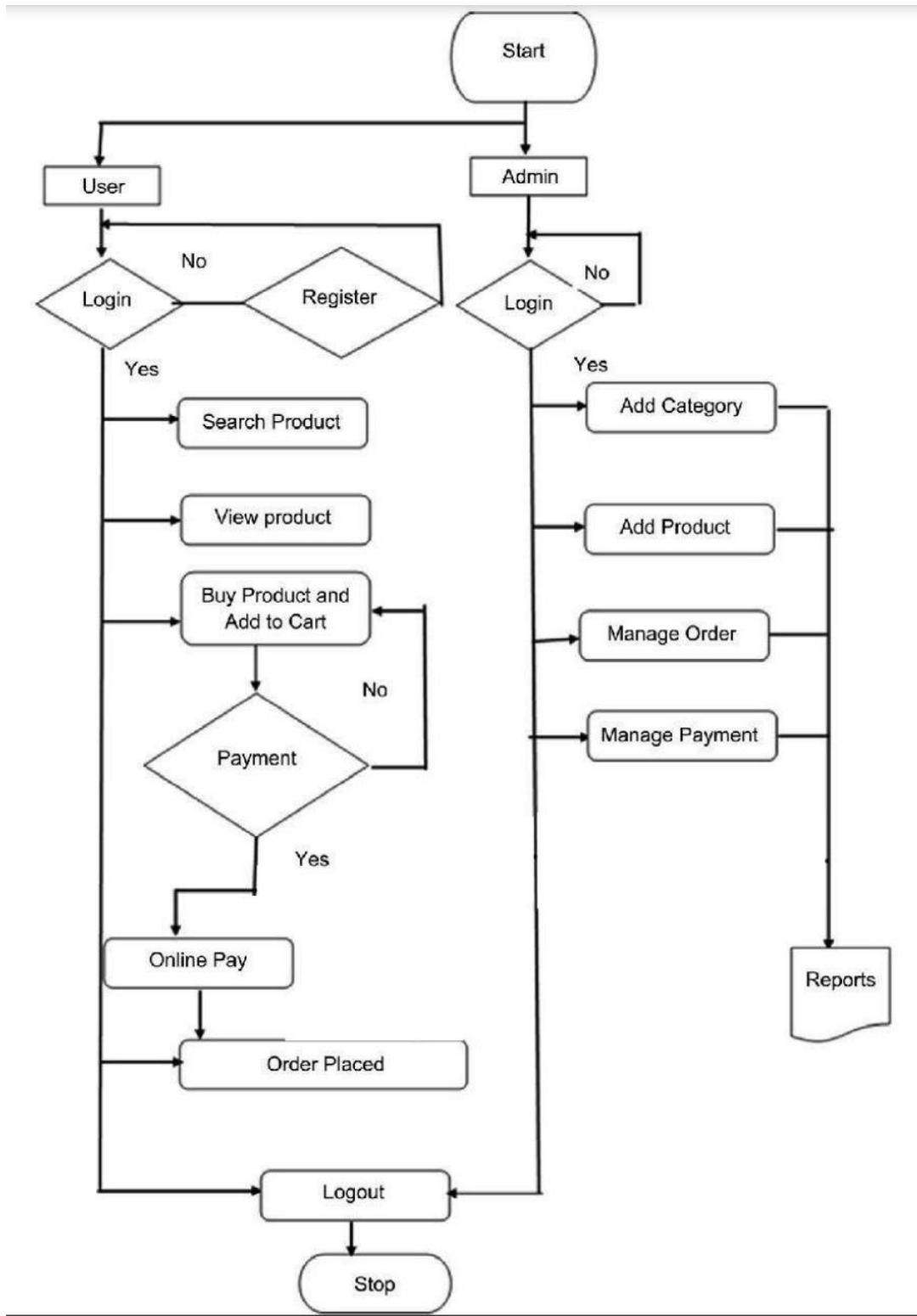
Explain the Purpose: Describe how this function is utilized in your project to create and process orders, including the contents of the cart and payment details.

Implementation Details: Provide an overview of the implementation details within the function, including how it communicates with your backend (axios requests), updates order information, and processes payments.

Use of Parameters: Explain the significance of the cart and paymentInfo parameters in the context of order placement.

User Experience: Describe how this functionality contributes to the user experience by allowing users to place and manage orders.

Data Flow Diagram:



Testing

We have performed manual testing in order to find and fix the bugs and errors in our system during the development process.

Sr No	Test Scenario	Expected Results	Actual Result	Status
1.	Login/Signup to the SwiftMart system with the correct username and password.	Admin/User should be able to login/signup successfully.	Admin/User is successfully logged in the system	success
2.	Attempt to login with incorrect login credentials.	Admin should not be able to log in.	The system should display an error message and redirect the user to the same login page	success
3.	Users should be able to search for products using filters by price and category.	The system should display relevant products based on the applied filters.	Products matching the specified criteria are displayed.	success
4.	Users should be able to add products to their shopping cart.	Selected products should be added to the user's shopping cart.	Products are successfully added to the cart.	success
5.	Users should be able to make payments using a credit card.	Payment should be processed successfully, and the order should be confirmed.	Payment is successfully processed, and the order is confirmed.	success
6.	Users should be able to check the status of their orders.	Users should see the current status of their orders, such as "Processing" or "Delivered".	Users can view the status of their orders accurately.	success

7.	Admin should be able to Create, Read, Update and Delete products in the system.	Admin can manage product listing effectively.	Admin can create, read, update, and delete products as required.	success
8.	Admin should be able to perform CRUD operations on product categories.	Admin can manage product categories effectively.	Admin can create , read, update and delete product categories as needed.	success
9.	Admin should be able to change the status of user accounts.	Admin can modify the status of user accounts.	Admin can change the status of user accounts as required.	success

Screenshots Of the System

1. User Registration:

The screenshot shows the Swiftmart website's registration page. At the top, there is a navigation bar with links for Search, HOME, CATEGORIES, REGISTER, LOGIN, and CART (which has a red notification badge with the number 0). Below the navigation bar is a "REGISTER FORM" box. Inside the form, there are input fields for a username ("laxita"), email ("laxita@gmail.com"), password ("....."), and phone number ("9157156711"). There is also a dropdown menu for "Address" with "Surat" selected, and a text input field for "Hobby" containing "Cricket". At the bottom of the form is a black "REGISTER" button.

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2. User Login:

The screenshot shows the Swiftmart website's login page. At the top, there is a navigation bar with links for Search, HOME, CATEGORIES, REGISTER, LOGIN, and CART (which has a red notification badge with the number 0). Below the navigation bar is a "LOGIN FORM" box. Inside the form, there are input fields for an email ("laxita@gmail.com") and a password ("....."). Below the password field is a "Forgot Password" link, and at the bottom is a black "LOGIN" button.

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3. Home Screen:

The screenshot shows the homepage of the Swiftmart website. At the top, there is a header with the logo "SWIFTMART", a search bar, and a "Search" button. To the right of the search bar are links for "HOME", "CATEGORIES", "LAXITA", and a "CART" button with a red notification badge showing "0".

On the left side, there are two filter sections: "Filter By Category" and "Filter By Price".

- Filter By Category:** Includes checkboxes for "phone", "Computers", "Laptops", "Men's Fashion", "Bags", "books", "Men's T-Shirt", and "Television".
- Filter By Price:** Includes radio buttons for price ranges: "\$0 to 19", "\$20 to 39", "\$40 to 59", "\$60 to 79", "\$80 to 99", and "\$100 or more".

All Products

A product card for a "OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00)" is displayed. The card includes a thumbnail image, the product name, a brief description, the price (\$ 449), and two buttons: "More Details" and "ADD TO CART".

Below the TV card, a partial view of a men's t-shirt is shown with the text "Men Striped Round Neck Cotton Blend Blue, Black T-".

4. Search Functionality:

The screenshot shows the search results page for the query "apple". The header elements are identical to the home screen.

The main content area is titled "Search Results" and displays the message "Found 1".

A single search result is shown for an "Apple 2023 MacBook Pro Laptop M2 Max". The result includes a thumbnail image of the laptop, the product name, a brief description, the price (\$ 4000), and two buttons: "More Details" and "ADD TO CART".

5. Filter By Category Functionality :

The screenshot shows the Swiftmart website interface. At the top, there is a navigation bar with the logo "SWIFTMART", a search bar containing the text "apple", a "Search" button, and links for "HOME", "CATEGORIES", "LAXITA", and a "CART" button with a red notification badge showing "0".

On the left side, there are two filter sections:

- Filter By Category:** A list of checkboxes with "phone" checked and other categories like Computers, Laptops, etc., unchecked.
- Filter By Price:** A list of radio buttons for price ranges: \$0 to 19, \$20 to 39, \$40 to 59, \$60 to 79, \$80 to 99, and \$100 or more.

Below these filters is a red "RESET FILTERS" button.

The main content area is titled "All Products" and displays two products:

- iphone 15:** An image of the iPhone 15, described as "this latest iphone...", with a price of "\$ 200000". It has "More Details" and "ADD TO CART" buttons.
- OnePlus Sonic Black 256GB Storage:** An image of the OnePlus phone, described as "Camera: Sensor: 50MP Main Came...", with a price of "\$ 500". It also has "More Details" and "ADD TO CART" buttons.

6. Product Details :

The screenshot shows the Swiftmart website interface, similar to the previous one but focused on a specific product.

At the top, there is a navigation bar with the logo "SWIFTMART", a search bar containing the text "Search", a secondary search bar containing the text "Search", and links for "HOME", "CATEGORIES", "LAXITA", and a "CART" button with a red notification badge showing "0".

The main content area is titled "Product Details" and displays a product image of a television screen showing a colorful abstract background.

Product information includes:

- Name :** OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00)
- Description :** The OnePlus 65UC1A00 TV is your one home entertainment appliance for immersive, unlimited, and exciting audio-visual delight. This television features a 4K UHD Display for detailed, clear, and immersive visuals, Dynaudio sound offers well-balanced audio, and OnePlus Connect 2.0 to connect your smartphone to this TV.
- Price :** 449
- Category :** Television

Below the product details is a "Similar Products" section with the message "No Similar Products found".

The footer of the page contains the text "All Right Reserved © Swiftmart" and links for "About", "Contact", and "Privacy Policy".

7. Filter By Price Functionality :

SWIFTMART HOME CATEGORIES ▾ LAXITA ▾ CART 0

Filter By Category

- phone
- Computers
- Laptops
- Men's Fashion
- Bags
- books
- Men's T-Shirt
- Television

Filter By Price

- \$0 to 19
- \$20 to 39
- \$40 to 59
- \$60 to 79
- \$80 to 99
- \$100 or more


Men Striped Round Neck Cotton Blend Blue, Black T-Shirt

8. All Categories :

SWIFTMART HOME CATEGORIES ▾ LAXITA ▾ CART 0

Filter By Category

- phone
- Computers
- Laptops
- Men's Fashion
- Bags
- books
- Men's T-Shirt
- Television

Filter By Price

- \$0 to 19
- \$20 to 39
- \$40 to 59
- \$60 to 79
- \$80 to 99
- \$100 or more


OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00)
The OnePlus 50UC1A00 TV is you...
\$ 449


Men Striped Round Neck Cotton Blend Blue, Black T-Shirt

ALL CATEGORIES
PHONE
COMPUTERS
LAPTOPS
MEN'S FASHION
BAGS
BOOKS
MEN'S T-SHIRT
TELEVISION

9. Search By Categories :

The screenshot shows a search results page for 'Category - phone'. At the top, there is a navigation bar with a logo, a search bar, and links for 'HOME', 'CATEGORIES', 'LAXITA', and 'CART' (with a red notification badge showing '0'). Below the navigation, the heading 'Category - phone' is displayed, followed by a sub-heading '3 result found'. Two products are listed: 'iphone 15' and 'OnePlus Sonic Black 256GB Storage'. Each product card includes an image, the product name, a brief description, price, and two buttons: 'More Details' and 'ADD TO CART'.

Product	Description	Price	Action
iphone 15	this latest iphone...	\$ 200000	More Details ADD TO CART
OnePlus Sonic Black 256GB Storage	Camera: Sensor: 50MP Main Came...	\$ 500	(No Action Buttons)

10. User Dashboard:

The screenshot shows the user dashboard for 'laxita'. The dashboard has a sidebar with a 'Dashboard' section containing 'Profile' and 'Orders' options. The main area displays the user's profile information: 'laxita', 'laxita@gmail.com', and 'Surat'. At the bottom of the page, a dark footer bar contains the text 'All Right Reserved © Swiftmart' and links for 'About', 'Contact', and 'Privacy Policy'.

User Information	Value
Name	laxita
Email	laxita@gmail.com
Location	Surat

11. Update User Profile :

The screenshot shows the Swiftmart website's user profile update interface. At the top, there is a navigation bar with links for HOME, CATEGORIES, LAXITA, and CART. A success message 'Profile Updated Successfully' is displayed above the search bar. The main content area has a sidebar titled 'Dashboard' with 'Profile' selected. The central part shows a 'USER PROFILE' form with fields for Name (laxita), Email (laxita@gmail.com), Password (redacted), Phone Number (9157156711), and Address (junagadh). A 'UPDATE' button is at the bottom. Below the form, a dark banner displays the text 'All Right Reserved © Swiftmart'.

12. Add to Cart:

The screenshot shows the Swiftmart product listing page. On the left, there are filters for Men's Fashion, Bags, books, Men's T-Shirt, and Television. Below that is a 'Filter By Price' section with price ranges from \$0 to 19 to \$100 or more, and a 'RESET FILTERS' button. The main content area displays two products: a OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV and a Men Striped Round Neck Cotton Blend Blue, Black T-Shirt. The TV listing includes a 'More Details' button and an 'ADD TO CART' button. The T-shirt listing also includes a 'More Details' button and an 'ADD TO CART' button. A success message 'Item Added to cart' is visible above the TV image. The TV image shows a colorful screen, and the T-shirt image shows a man wearing the shirt.

13. Cart Summary:

SWIFTMART Search Search HOME CATEGORIES ▾ LAXITA ▾ **CART** 4

Hello laxita

You Have 4 items in your cart



OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00)

The OnePlus 50UC1A00 TV is you

Price : 449

Remove



ASUS Vivo AiO V222

ASUS Vivo AiO V222, 2 core Int

Price : 450

Remove



Apple 2023 MacBook Pro Laptop M2 Max

Cart Summary

Total | Checkout | Payment

Total : \$204,899.00

Current Address

junagadh

Update Address

Choose a way to pay



Card



PayPal

Developer Error: Something went wrong. Check the console for details.

The OnePlus 50UC1A00 TV is you

Price : 449

Remove



ASUS Vivo AiO V222

ASUS Vivo AiO V222, 2 core Int

Price : 450

Remove



Apple 2023 MacBook Pro Laptop M2 Max

Apple 2023 MacBook Pro Laptop

Price : 4000

Remove

Total : \$4,899.00

Current Address

junagadh

Update Address

Choose a way to pay



Card



PayPal

Developer Error: Something went wrong. Check the console for details.

Make Payment

All Right Reserved © Swiftmart

About | Contact | Privacy Policy

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14. Payment Gateway:

The screenshot shows a payment gateway interface. On the left, there's a shopping cart summary with three items:

- ASUS Vivo AiO V222 (Price: 449) with a "Remove" button.
- ASUS Vivo AiO V222, 2 core Int (Price: 450) with a "Remove" button.
- Apple 2023 MacBook Pro Laptop M2 Max (Price: 4000) with a "Remove" button.

To the right, the "Current Address" is listed as "junagadh" with a "Update Address" button. Below that is a payment form:

- "Pay with card" section showing logos for VISA, MasterCard, American Express, and Discover.
- "Card Number" field containing "4242 4242 4242 4242" with a "VISA" logo.
- "Expiration Date (MM/YY)" field containing "11 / 23".
- "CVV (3 digits)" field containing "123" with a small icon.
- A link "Choose another way to pay" and a "Make Payment" button at the bottom.

15. Order Details:

The screenshot shows the Swiftmart dashboard with the "All Orders" page open. The sidebar on the left has a "Dashboard" section with "Profile" and "Orders" buttons, where "Orders" is currently selected. The main area displays a table of orders:

#	Status	Buyer	Date	Payment	Quantity
1	Not Process	laxita	a few seconds ago	Success	3
 <p>OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00) The OnePlus 50UC1A00 TV is you Price : 449</p>					
 <p>ASUS Vivo AiO V222 ASUS Vivo AiO V222, 2 core Int Price : 450</p>					
 <p>Apple 2023 MacBook Pro Laptop M2 Max</p>					

16. Admin Dashboard:

The screenshot shows the Swiftmart Admin Dashboard. At the top, there's a header with the logo 'SWIFTMART', a search bar, and navigation links for 'HOME', 'CATEGORIES', 'ADMIN', and 'CART' (with a notification count of 0). On the left, a sidebar titled 'Admin Panel' contains links for 'Create Category', 'Create Product', 'Products', 'Orders', and 'Users'. The main content area displays the following user information in a box:

Admin Name : admin
Admin Email : admin@gmail.com
Admin Contact : 123456789

At the bottom of the page, a dark footer bar displays the text 'All Right Reserved © Swiftmart' and links for 'About', 'Contact', and 'Privacy Policy'.

17. Manage Category:

The screenshot shows the Swiftmart Admin Panel with the 'Manage Category' page. The top navigation is identical to the previous dashboard. The left sidebar, titled 'Admin Panel', has a 'Create Category' link highlighted in blue, and other links for 'Create Product', 'Products', 'Orders', and 'Users'. The main content area is titled 'Manage Category' and features a search bar with the text 'KidsWare' and a 'Submit' button. Below the search bar is a table with the following data:

Name	Actions
phone	<button>Edit</button> <button>Delete</button>
Computers	<button>Edit</button> <button>Delete</button>
Laptops	<button>Edit</button> <button>Delete</button>
Men's Fashion	<button>Edit</button> <button>Delete</button>
Bags	<button>Edit</button> <button>Delete</button>
books	<button>Edit</button> <button>Delete</button>

18. Create Product :

Admin Panel

Create Category

Create Product

Products

Orders

Users

Create Product

KidsWare

kids.jpg



jeans with white tshirt

of this ensemble is a pair of well-fitted medium-blue jeans. These jeans are crafted from a durable denim fabric, offering comfort and a flattering silhouette. They feature a traditional five-pocket design and a slightly tapered leg, providing a

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19. Manage Order Status By Admin:

SWIFTMART

jeans

Search

HOME CATEGORIES ▾ ADMIN ▾ CART 0

Admin Panel

Create Category

Create Product

Products

Orders

Users

All Orders

#	Status	Buyer	Date	Payment	Quantity
1	delivered ▾	laxita	a few seconds ago	Success	3



OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00)

The OnePlus 50UC1A00 TV is you

Price : 449



ASUS Vivo AiO V222

ASUS Vivo AiO V222, 2 core Int

Price : 450



Apple 2023 MacBook Pro Laptop M2 Max

20. Order Status:

SWIFTMART jeans Search HOME CATEGORIES ▾ LAXITA ▾ CART 0

Dashboard All Orders

#	Status	Buyer	Date	Payment	Quantity
1	delivered	laxita	a few seconds ago	Success	3
		OnePlus U1S 164 cm (65 inch) Ultra HD (4K) LED Smart Android TV with Far field and Dolby Audio (65UC1A00) The OnePlus 50UC1A00 TV is you Price : 449			
		ASUS Vivo AiO V222 ASUS Vivo AiO V222, 2 core Int Price : 450			
Apple 2023 MacBook Pro Laptop M2 Max					

Conclusion:

SwiftMart, our Amazon clone project, has been a significant undertaking that has allowed us to explore the world of e-commerce and develop a robust platform that closely mirrors the functionality and user experience of the popular online retail giant. Throughout the development process, we encountered various challenges and made important decisions that have contributed to the project's success.

We successfully implemented essential features like user registration, product browsing, shopping cart management, and secure payment processing, offering users a seamless shopping experience.

SwiftMart's responsive and user-friendly design ensures accessibility across various devices, further enhancing the shopping experience. A secure authentication system safeguards user data and privacy, earning trust among our user base.

In conclusion, SwiftMart is a feature-rich e-commerce platform that replicates many of Amazon's core functionalities. We hope it will inspire further development and refinement in the world of e-commerce, offering users a reliable and enjoyable online shopping experience.

Major Functionalities that are implemented successfully in our system.

- User / Admin Authentication
- CRUD on Product
- CRUD on Category
- Secure Payment
- Manage Order Status

Limitation and future extension of system

Limitations:

- User-generated product feedback is not available, limiting user engagement.
- Wishlist functionality is missing, affecting user convenience.
- UPI payment integration is not supported, restricting payment options.

Future Extensions:

- Enhance user-engagement by implementing a user-generated product feedback system.
- Improve user convenience by introducing a wishlist feature for saving products .
- Expand payment options and user reach by integrating UPI payment support.

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