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**COURSE:** SOFTWARE ENGINEERING

**SECTION:** W-4

**Assignment : 2**

***PROJECT:*** *Online Shopping System*

**Usecase Table:**

| **Use Case** | **Stakeholder(s)** | **Functional Requirements** | **Preconditions** | **Postconditions** | **Description** |
| --- | --- | --- | --- | --- | --- |
| **Customer Login/Signup** | Customers, Admins | User Authentication | Customer must have access to the system and valid credentials (if logging in). | Customer account is created or logged in successfully, with session initiated. Admin can access customer data. | Customers can register, log in, and recover passwords. Admins ensure secure access to the system. |
| **Browse Products** | Customers | Product Search & Filters | Customer is logged into the system or browsing as a guest. | Customer has the ability to see and select products based on the applied filters and search terms. | Customers can search and filter products based on categories, price, brand, etc. |
| **Add to Cart** | Customers | Shopping Cart | Customer has selected a product to purchase. | Product is added to the shopping cart, with updated total price and inventory reflected. | Customers can add or remove products from the shopping cart, which auto-updates. |
| **Checkout & Payment** | Customers, Payment Providers | Secure Payments | Customer has items in the cart and is ready to proceed with payment. | Payment is processed successfully or rejected. Customer receives a confirmation of the order. | Customers can complete purchases with secure transaction processing by payment providers. |
| **Track Orders** | Customers | Order Tracking | Customer has completed an order. | Customer can view the current status of the order (pending, shipped, delivered). | Customers can track the status and history of their orders in real-time. |
| **Product Review** | Customers | Product Reviews | Customer must have purchased the product. | Review is submitted, pending approval, and visible to other customers after moderation by admin. | Customers can write reviews on products. Reviews are visible after moderation by admins. |
| **Manage Products** | Admins, Vendors | Admin Dashboard | Admin or vendor is logged in with proper privileges. | Product details are updated, added, or removed from the inventory system. | Admins and vendors can add/edit/remove product details, prices, and inventory management. |
| **Manage Orders** | Admins | Admin Dashboard | Admin is logged in and has access to the order management section. | Order is processed, updated, or marked for shipping. Status is updated accordingly. | Admins can view and manage customer orders, processing them through different stages (pending, shipped, delivered). |
| **Manage Users** | Admins | Admin Dashboard | Admin has appropriate permissions to manage user accounts. | Customer account is modified or suspended. If deleted, customer data is removed. | Admins can manage customer accounts, including suspension or deletion. |
| **Manage Inventory** | Vendors | Admin Dashboard | Vendor is logged into the system and has inventory management privileges. | Inventory is updated with new stock levels or changes to product availability. | Vendors can update their product inventory, including stock levels and availability. |

**Test Cases**

| **Test Case ID** | **Functional Requirement** | **Scenario** | **Test Steps** | **Expected Result** | **Pass/Fail** |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TC01 | User Authentication | Register with valid details. | 1. Open registration page.2. Enter details.3. Click "Register". | User account is created and logged in. | Pass |  |  |
| TC02 | User Authentication | Login with valid credentials. | 1. Enter registered email and password.2. Click "Login". | User is successfully logged in. | Pass |  |  |
| TC03 | User Authentication | Login with invalid credentials. | 1. Enter invalid email/password.2. Click "Login". | Error message displayed. | Pass |  |  |
| TC04 | Product Search & Filters | Search for a product. | 1. Enter product keyword. 2. Click "Search". | Relevant products are displayed. | Pass |  |  |
| TC05 | Product Search & Filters | Filter products by category/price. | 1. Apply filters. 2. Click "Apply". | Products match filter criteria. | Pass |  |  |
| TC06 | Shopping Cart | Add item to the cart. | 1. Select a product.2. Click "Add to Cart". | Item is added to the cart. | Pass |  |  |
| TC07 | Shopping Cart | Remove item from the cart. | 1. Open cart.2. Click "Remove". | Item is removed from the cart. | Pass |  |  |
| TC08 | Secure Payments | Complete payment with valid details. | 1. Add items to cart.2. Enter payment details.3. Click "Pay". | Payment is processed successfully. | Fail |  |  |
| TC09 | Secure Payments | Payment failure with invalid details. | 1. Add items to cart.2. Enter invalid payment info.3. Click "Pay". | Error message displayed for failed payment. | Pass |  |  |
| TC10 | Order Tracking | Track order after purchase. | 1. Go to "My Orders".2. Check order status. | Correct order status displayed. | Pass |  |  |
| TC11 | Product Reviews | Submit a review. | 1. Go to product page.2. Submit review. | Review is displayed on product page. | Pass |  |  |
| TC12 | Admin Dashboard | Admin adds/edit/deletes a product. | 1. Log in as admin.2. Manage product. | Product is added/edited/deleted. | Pass |  |  |