

Multi-Actor E-commerce System – Documentation

Project Overview







- **Title:** Multi-Actor E-commerce System
- **Objective:** To develop a feature-rich e-commerce platform using **HTML, CSS, JavaScript, and Bootstrap**, supporting three types of users:
 - **Customers**
 - **Sellers**
 - **Admins**

Each role has access to distinct functionalities, enabling smooth transactions, inventory management, and platform oversight.

User Roles and Functionalities

1. Customers

Primary Functions:






-  Browse product listings.
-  Add/remove products from the shopping cart.
-  Add items to a wishlist for future reference.
-  Complete purchases through a secure checkout process.
-  View order history.
-  Manage personal profile details (name, email, password, address).

Usage Guide:

- Log in via web browser as a Customer.
 - Use the **Home Page** or **Catalog** to explore products.
 - Add products to the **Cart** or **Wishlist**.
 - Go through the **Checkout** process to complete orders.
 - Visit **My Orders** to view order history.
 - Access the **Profile** section to update personal details.
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2. Sellers

Primary Functions:





-  Add new products to the catalog.
-  Edit product details (title, image, description, price).
-  Delete outdated or unavailable products.
-  View analytics on sales performance.
-  Manage and fulfill customer orders.

Usage Guide:

- Log in as a Seller to access the **Seller Dashboard**.
 - Use **Add Product** to list a new item.
 - Navigate to **Manage Products** to make changes or remove items.
 - Use the **Orders** tab to process customer orders.
 - Check the **Analytics** tab to track sales performance.
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3. Admins

Primary Functions:

-  Manage user accounts:
 - Remove users
 - Reset passwords
-  Moderate and approve product listings.
-  Handle customer support issues.
-  Access full functionality including Seller and Customer views.

Usage Guide:

- Log in as an Admin to access the **Admin Panel** (email: omnia@adminhub.com, password: omnia_admin_5)
 - Use **User Management** to handle user actions.
 - Moderate listings through the **Product Review** tab.
 - Resolve customer complaints and queries through the **Support Center**.
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System Features

User Authentication

- Role-based access (Customer, Seller, Admin).
- Secured login and session management.

Home Page

- Displays featured products and promotions.
- Built using **Bootstrap** for responsiveness.

Product Catalog

- Searchable and filterable list of products.
- Shows image, title, price, and "Add to Cart/Wishlist" buttons.

Product Details Page

- Expanded product information.
- Multiple images, specs, and stock availability.

Shopping Cart

- View selected items.
- Modify quantity or remove products.
- Checkout button leads to order finalization.

Checkout Process

- Input shipping and payment information.
- Review order summary before submission.

Wishlist

- Customers can save products to Wishlist.
- Access from their profile or account menu.

Customer Profile

- Editable profile section for name, email, password, address.
- View order and Wishlist history.

Seller Dashboard

- Product management interface.
- Order tracking and fulfillment.
- Visual charts and metrics on sales performance.

Admin Panel

- User account controls and password resets.
- Product moderation and platform oversight.
- Customer service panel for complaints and inquiries.

Responsive Design

- Fully responsive UI for mobile, tablet, and desktop.
- Powered by **Bootstrap Grid System**.

Example Use Case Flows

► Customer Flow – Browsing to Purchase:

1. Login → Browse Catalog → View Product → Add to Cart → Checkout → View Order History

► Customer Flow – Wishlist:

1. Login → Browse Products → Add to Wishlist → Move to Cart → Checkout

► Customer Flow – Account Management:

1. Login → Profile → Update Email & Address → View Orders → Change Password

► Seller Flow:

1. Login → Add Product → Manage Inventory → View Orders → Analyze Sales

► Admin Flow:

1. Login → View All Users → Moderate Product Listing

Technologies Used

- **HTML5 & CSS3** – Structure and styling
- **JavaScript** – Logic, interactivity, and dynamic features
- **Bootstrap** – Responsive UI components
- **Local Storage** – Client-side data storage (cart, Wishlist, etc.)
- **Jira** – Project management, task tracking, sprint planning
- **GitHub** – Version control, collaborative development, code hosting