Project Title: Multi-Actor E-commerce System

Description:

Objective: Develop a comprehensive e-commerce system using HTML, CSS, JavaScript, and Bootstrap. The system should cater to three main actors: Customers, Sellers, and Admins. Each actor will have specific functionalities and access levels.

Key Features:

1. User Authentication:

· Implement user authentication to distinguish between Customers, Sellers, and Admins.

· Provide secure access to different sections of the system based on user roles.

2. Home Page:

· Create a home page displaying featured products and promotions.

· Utilize Bootstrap components for a clean and responsive layout.

3. Product Catalog:

· Display a list of products with relevant details such as product name, image, price, and an "Add to Cart" button. · Allow Customers and Sellers to browse and search for products.

4. Product Details Page:

· Create individual pages for each product, showing detailed information, images, and options.

· Include a "Back to Catalog" button for easy navigation.

5. Shopping Cart:

· Implement a shopping cart for Customers to keep track of selected items.

· Allow Customers to add or remove items from the cart.

· Display the cart contents, including product names, quantities, prices, and a total.

6. Checkout Process:

· Develop a checkout process with a form for Customers to enter shipping and payment details.

· Include a summary of the order before finalizing the purchase.

7. Seller Dashboard:

· Create a dashboard for Sellers with sections for managing products, processing orders, and viewing sales analytics.

· Allow Sellers to add, edit, and delete products.

8. Admin Panel:

· Implement an admin panel with access to all features.

· Admins can manage user accounts, review and moderate product listings, and handle customer service tasks. **9. Responsive Design:**

· Ensure the system is responsive and works well on various devices, including desktops, tablets, and smartphones.

Technical Details:

1. **HTML:**
   · Structure the web pages using HTML, defining sections for the home page, product catalog, individual product pages, shopping cart, checkout process, and user dashboards.
2. **CSS and Bootstrap:**
   · Style the pages using CSS, incorporating Bootstrap for a clean and responsive layout.
   · Utilize Bootstrap's grid system for responsive design.
3. **JavaScript:**
   · Use JavaScript for dynamic interactions, such as updating the cart, handling form submissions, and providing a smooth user experience.
4. **Local Storage:**
   · Use local storage to store and retrieve product, user, and order data.

User-Specific Functionalities:

1. **Customers:**
   · Can browse products, add items to the cart, and complete purchases.
   · View order history and manage account details.
2. **Sellers:**
   · Can add, edit, and delete products.
   · Manage order processing and view sales analytics.
3. **Admins:**
   · Have full access to all features.

· Manage user accounts (remove, reset password), moderate product listings, and handle customer service.

Documentation: Provide clear documentation with examples and usage guidelines for Customers, Sellers, and Admins. Include instructions on how to browse products, manage user accounts, and complete transactions.

Usage: Users can access the e-commerce system through a web browser. Customers, Sellers, and Admins will have different levels of access and functionalities based on their roles.

Project Duration: **from 5/8/2025 to 20/8/2025**

Note:

· You can use any JavaScript library for creating data visualizations (charts and graphs). Like: D3.js, Chart.js, plotly.js, or any other one.
· Try to use remote repo (**GitHub**) to organize your teamwork.
· Any other added features will be counted.