**Software Engineering Design Capstone Project**

***SE331E1***

**Project Name:** Bizcart Superstore

**Stack :** HTML-CSS-JS-React-Node JS-My SQL

**Roles of Team Mates:**

|  |  |
| --- | --- |
| Name | Role |
| Ahnaf Sadik Saad | Project Management & System Architecture  Design & FrontEnd |
| Ahidul Islam  B.M Nafees Iqbal | BackEnd  DataBase & SQA |

**Features:**

**1️. Homepage**   
✅ **Search Bar**   
✅ **Category Sections**   
✅ **Featured & Trending Products**

**2️. Product Listings & Details**

✅ **Product Grid/List View**   
✅ **Product Page**

**3️. Shopping Cart & Checkout**

✅ **Cart Page**   
✅ **Checkout Page**

✅ **Payment Integration**

**4️. User Account & Authentication**

✅ **Login & Signup**

✅ **Profile Page**   
✅ **Wishlist**

**5️. Responsive Design & UI**

✅ **Mobile-Friendly Layout**

✅ **Navigation Menu**

✅ **Filters & Sorting Options**

**6️. Additional Features**

✅ **Contact Page**   
✅ **Newsletter Signup**   
✅ **Social Media Links**   
✅ **Admin Panel (Optional)**

**Project Description:**

eCommerce platform is a **feature-rich, responsive, and user-friendly** online shopping website designed to offer a seamless purchasing experience. It enables users to browse various products, add items to their cart, and complete purchases efficiently. With an intuitive UI and smooth navigation, the platform enhances customer engagement and boosts sales.

**Challenges**

**UI/UX Optimization**

🔹 Designing a visually appealing and **user-friendly interface** to keep users engaged.  
🔹 Ensuring **easy navigation** between different product categories and checkout pages.  
🔹 Implementing **mobile responsiveness** to provide a seamless shopping experience across all devices.

**Performance & Speed**

🔹 **Optimizing images and scripts** to prevent slow loading times.  
🔹 **Reducing server requests** to enhance performance and decrease page load time.  
🔹 Ensuring a **smooth checkout process** without delays or glitches.

**Security & Authentication**

🔹 Implementing **secure login and registration** to prevent unauthorized access.  
🔹 Protecting **user payment details** and ensuring encrypted transactions (if integrated).  
🔹 Preventing **fake accounts and spam orders** through proper validation.

**Cart & Checkout Process**

🔹 Ensuring that items in the cart **remain saved** even if the user navigates away.  
🔹 Avoiding checkout **abandonment issues** by making the process **fast and straightforward**.  
🔹 Implementing proper **error handling** for payment failures or incorrect inputs.

**Scalability & Future Growth**

🔹 Designing the platform in a way that allows **easy addition of new features**.  
🔹 Keeping the code structure clean and **maintainable** for future updates.  
🔹 Ensuring that the platform can **handle increased traffic and large product inventories** as it grows.

**Outcomes**

**✔️ Enhanced Shopping Experience**

**✔️ Fast & Responsive Design**

**✔️ Secure Transactions & Customer Trust**

**✔️ Increased Customer Engagement**

**✔️ Scalability for Future Expansion**