Capstone Project: React Web Application

Project Title: SmartShop - A Minimal E-commerce Web App

Objective:

Design and build a simple e-commerce web application using React. This app should allow users to view a list of products, add them to a shopping cart, and proceed to checkout.

Features to Implement:

- 1. Homepage:
- Welcome message
- Navigation bar (Home, Products, Cart, Checkout)
- 2. Product Page:
- Display a list of products (image, title, price, short description)
- Add to cart functionality
- 3. Cart Page:
- List of selected products with quantities
- Remove item from cart
- Total cost calculation
- 4. Checkout Page:
- Form to input name, email, address, and payment method
- Simple form validation
- Order summary and submission button
- 5. Styling:

- Responsive design using Tailwind CSS or CSS modules
6 State Management:
6. State Management:
- Use React Context or Redux for managing cart state
7. Optional Enhancements:
- User authentication (Firebase/Auth0)
- Backend integration (e.g., Firebase, Express.js)
- Search or filter products
Technical Requirements:
- React (with hooks)
- Component-based architecture
- Functional components preferred
- LocalStorage for persisting cart data (if no
backend) Rubric (Total: 100 Points):
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Criteria Points
Functional Homepage 10
Product Listing Implementation 15
Working Cart Functionality 15
Checkout Process & Validation 15
Code Structure & Readability 10 Styling & Responsive Design 10

| State Management (Context/Redux) | 15 | | Extra Features / Creativity | 10 | Submission Guidelines: - GitHub repository link

- Live demo URL (Netlify, Vercel, etc.)
- 1-page project summary PDF
- Submit via the course platform by 26th May
- Github Readme Documentation

Evaluation Notes:

- Focus on user experience and functionality.
- Clean, modular code is essential.
- Bonus points for creativity and effort beyond core features.
- Mobile First Design Approach
- Strengths:
- Suggestions for Improvement:
- Final Comments: