

E-COMMERCE APPLICATION DESIGN

DOCUMENT

Project overview:-

The goal is to create an e-commerce application where all products are displayed on a single page. Users can add products to the cart, manage product quantities, view total prices, and remove items. When the cart is empty, an appropriate message will be displayed. The app will use React for the front end, Tailwind CSS for styling , and Redux for state management and API data fetching.

Features

1. Product Listing Page

- Display all products with their details (name, price, and image).
- Include an "Add to Cart" button for each product.

2. Cart Functionality:

- Add products to the cart.
- Increase/decrease the quantity of products in the cart.
- Remove products from the cart.
- Show the total price of products in the cart.
- Show "Empty Cart" when no items are in the cart.

3. Responsive Design:

- Use Tailwind CSS to ensure the app is responsive on all devices.
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4. Single Page Application:

- Dynamically render the cart page without refreshing the page.

Technology Stack

Frontend: React (Functional Components + Hooks)

Styling: Tailwind CSS

State Management: Redux Toolkit

Routing: React Router

➤ **API Integration:** Fetch / Axios

Installation and Setup

Prerequisites

- *Node.js (v16 or higher)*
- *Npm*

Steps

- 1. Clone the repository:**
 - *Git clone <https://github.com/ajitdehri/E-commerce-app.git>*
- 2. Navigate to the project directory**
 - *cd E-commerce-app-main*
- 3. Install dependencies:**
 - *npm install*
- 4. Start the development server:**
 - *npm run dev*
- 5. Open the application in your browser:**
 - *<http://localhost:5173>*