E-Commerce Product Page

★ Project Overview

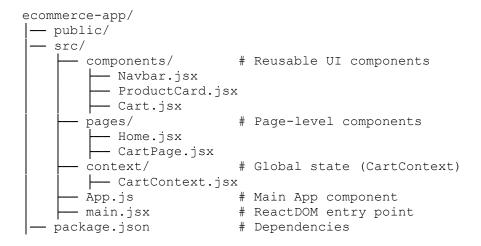
This is a simple e-commerce product catalog built using React, React Router, Context API, and Tailwind CSS. Users can:

- ✓ View a list of products
- ✓ Remove products from the cart
- ✓ View total price in the cart
- ✓ Navigate between pages

This project follows **React best practices**, such as:

- **✓** Component-based architecture
- ✓ Global state management using Context API & useReducer
- **✓** React Router for navigation
- **✓** Tailwind CSS for styling

■ Project Structure



♦ Key Features & Functionality

Displaying Products (Home Page)

The **Home Page** displays a list of products. Each product card shows:

- Product name
- Price
- "Add to Cart" button

Functionality:

★ Clicking "Add to Cart" updates the global cart state via Context API.

2 Managing the Shopping Cart (Cart Page)

The **Cart Page** displays:

- List of items added to the cart
- Total price calculation
- "Remove from Cart" button for each item

Functionality:

React

★ Clicking "Remove" updates the cart state and removes the item.

3 Global State Management (CartContext)

Instead of **prop drilling**, we use **Context API + useReducer** to manage the cart.

- **✓ useContext** for global access
- ✓ useReducer for cart operations (ADD TO CART, REMOVE FROM CART)

4 Navigation (React Router)

- ✓ **Navbar component** provides links to **Home** and **Cart Page**.
- **✓ React Router** is used for **client-side navigation**.

% Tech Stack & Libraries Used

Technology Purpose
UI Development

React Router Page Navigation

Context API + useReducer Global State Management

Tailwind CSS Styling & Responsive Design