

Day-4 Dynamic Frontend Components - E Commerce Website

Introduction:

- The goal is to create a responsive and scalable e-commerce website for selling products online.
- The website includes multiple features like Products,Blog,Shop, Shopping cart functionality and User interaction (Contact).

Tools and Technologies used:

- React.js - Front-end framework for building the user interface.
- Redux Toolkit - For global state management (especially cart and product data).
- React Router - For navigation (Cart).
- Styled Components - Used Tailwind CSS for styling.
- API - Used API to fetch products to front-end.

Reusable Components

- Topbar & Navbar - Includes navigation links like Home, Shop, Products, Blogs . It also includes the search bar.
- Footer - Information like Categories, Customer Care, Pages.
- Card, Card1, Card2, Card3, ProductCard - Reusable components.

Pages

- Home Page - Contains an introduction of the website.
- Products Page - Displays all available products in a grid.
- Shop Page - Displays items available online in shop.
- Blog Page - Blog posts related to the products.

- Contact Page - A form to submit queries and contact details.
- Cart page - Displays items added to the cart , allows quantity adjustments with price.

Features and Functionalities

Product Listing

- Fetch product data (name,image,price,description etc) from an API and also local data.
- Display products in a grid form.

Cart Functionality

- Use Redux Toolkit to manage the Cart's state(products in cart, quantity, total price).
- Actions to add products, remove products.
- Use selectors to get the total price , number of items, and the list of items in the cart.

Product Detail Page

When the customer click on product it opens up to detail page.

Redux Toolkit Integration

- Use Redux Toolkit createSlice
- Create actions and reducers to update the state based on user actions.

Example actions:

- Add to cart - Adds selected product to the cart.
- Remove from cart - Removes the selected item.

