

Project Description:

Build a simple e-commerce frontend in React that includes a product listing page with categories, product filters, product details view, and a shopping cart system using Redux for state management.

Requirements:

1. Product Catalogue Page

- Show a list of products with image, title, price, and category.
- Allow filtering by category and sorting by price (low to high, high to low).

2. Product Detail Page

- On clicking a product, navigate to a detail page with full information (description, image, price).
- Include an “Add to Cart” button.

3. Shopping Cart

- Redux state management for cart items.
- Show cart contents on a dedicated cart page.
- Allow quantity adjustments and removing items.
- Calculate total price.

4. State Persistence

- Persist cart state to `localStorage`.

5. Routing

- Use React Router for navigation (`/`, `/product/:id`, `/cart`).

6. Mock Data

- Use a mock API (like <https://fakestoreapi.com>).

Evaluation Criteria:

Category Description

Code Quality	Proper use of components, clean file structure, readable code
React Best Practices	Functional components, hooks, Redux Toolkit usage

UI/UX Aesthetic, responsive, intuitive design

Functionality Core features work as expected

Bonus Features Any extras they add (like filters, responsive design, animations)