

Project: E-Commerce Product Management Dashboard

Objective:

Develop a **Product Management Dashboard** where an admin can manage products, apply filters, and perform CRUD operations using **ReactJS, Axios, JSON Server, and LocalStorage**.

Features & Requirements

1 User Authentication

- Implement a **fake login system** (username & password stored in **localStorage**).
- If the user is not logged in, they should be redirected to the login page.
- Only authenticated users can access the product dashboard.

2 Product Management (CRUD)

- **List all products** from JSON Server.
- **Add a new product** (Fields: Name, Price, Category, Stock, Image URL).
- **Edit an existing product** (Modify name, price, category, stock).
- **Delete a product** (Remove from database).

3 Filtering & Sorting

- **Search products** by name.
- **Filter products** by category.
- **Sort products** by price (low-high, high-low).
- **Filter by stock availability** (In Stock / Out of Stock).

4 Pagination

- Display **10 products per page**.
- Load more pages dynamically.

5 Dark Mode

- Implement a **dark mode toggle**.
- Store user theme preference in **localStorage**.

6 API Handling

- Use **Axios** for API communication.
 - Handle **error states** for API failures.
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Tech Stack

- ReactJS (Hooks, Context API/Redux)
- Axios for API calls
- React Router for navigation
- JSON Server as a mock backend
- LocalStorage for session management
- TailwindCSS/SCSS or Bootstrap for styling