

Product Management Application

Project Overview:

Build a simple product display application with basic CRUD operations. Focus on demonstrating fundamental React, NodeJS or Java, and MongoDB skills.

Note:

For this task, please use either Node.js or Java for backend development.

Requirements:

Frontend (ReactJS)

- Product List Page: Display all products in a simple grid/list
- Add Product Form: Basic form to create new products
- Product Card Component: Reusable component showing product info
- Use functional components and useState hook
- Basic CSS styling (no framework required)

Backend (NodeJS or JAVA)

API Endpoints

- `GET /api/products` - Get all products
- `POST /api/products` - Add new product
- `DELETE /api/products/:id` - Delete product

Use ExpressJS (if Nodejs)

Basic error handling

Database (MongoDB)

- Simple Product Schema:

```
{
  name: String,
  price: Number,
  description: String,
  category: String
}
```
- Use Mongoose for connection
- Basic CRUD operations

Must Have

- Display list of products
- Add new product via form
- Delete product (with confirmation)
- Sort Products by Price
- Connect all three technologies successfully

Nice to Have (Optional)

- Edit existing product
- Search products by name
- Basic form validation

