

Home Task: Product Catalog & Reviews Application

Overview

Develop a mini product catalog where users can browse products and add reviews. The primary focus is on building a robust, visually appealing, and well-tested frontend. Use a database to store products and reviews, and expose a backend API to interact with the data.

Requirements

Project Setup

- Set up a modern frontend application using Next.js and React.
- Use a styling approach that ensures maintainability and scalability.
- Document and test your UI components using a component-driven development approach.

Frontend Functionality (≈70% Focus)

- Homepage: Display a list of products with essential details.
- Product Detail Page: Show detailed product info and existing reviews. Allow users to submit new reviews.
- Component Design: Break the UI into reusable components (e.g., ProductCard, ProductList, ReviewForm).
- State Management & API Calls: Fetch product and review data from the backend using an appropriate client.

Backend Functionality (≈30% Focus)

- Implement an API to handle:
 - Retrieving product and review data.
 - Submitting new reviews.
- Store the data in a database and structure it efficiently.

General Best Practices

- Code Quality: Clean, modular, and maintainable code.
- Error Handling: Handle errors gracefully on both client and server.

- Responsive UI: Ensure a smooth experience across different screen sizes.
- Documentation: Provide clear setup and running instructions.

Bonus Points

- Writing tests for key functionalities (unit, integration, or e2e).
- Deploying the application and providing a live demo.

Deliverables

- Share a Git repository link containing the source code.
- Include a README with setup instructions and any additional notes.