

Naksh Jewels – ReactJS & Node.js Internship Assessment

This assignment is designed to evaluate real-world development skills, code quality, problem-solving ability, and basic DevOps understanding. Only serious candidates should apply.

Assignment Overview

You are required to build a mini e-commerce module using React (or Next.js) and Node.js. The goal is to demonstrate clean code, structure, and practical implementation.

Time Limit

48 hours from the time you receive this assignment.

Part A: Frontend (React / Next.js)

- Product listing page using static JSON or API
- Product card with image, name, price, and Add to Cart button
- Cart page with quantity update and remove item option
- State management using Redux or Context API
- Responsive design (basic)

Frontend Rules

- Functional components only
- No UI libraries (Bootstrap, MUI, Ant, etc.)
- Clean folder structure
- Meaningful Git commits

Part B: Backend (Node.js + Express)

- GET /products API
- POST /cart API
- Validation middleware
- Proper error handling
- MongoDB or in-memory data
- Environment variables using .env

Part C: Docker (Mandatory)

- Dockerfile for frontend
- Dockerfile for backend
- docker-compose.yml
- Application must run using: docker-compose up

Submission Guidelines

- GitHub repository link
- README.md with setup and Docker instructions

- Screenshots or short demo video (optional)

Evaluation Criteria

- Code quality and structure
- Understanding of React and Node fundamentals
- Effort and correctness of Docker setup
- Error handling and edge cases
- Communication and clarity

Note: Copy-pasted tutorial code, poor structure, or non-working Docker setup will lead to rejection.

— Naksh Jewels Development Team