CPU Inventory Management SPA

Overview

Your task is to create a simple single-page application that allows users to manage a list of CPUs for an inventory system. The backend should be built using Node.js, and the frontend using React.

Requirements

Backend

- Create a RESTful API to handle CPU data.
- Implement endpoints to perform CRUD operations for managing CPUs in the inventory.
- Store the CPU data in a database.

Frontend

- Display a list of CPUs with their details (e.g., manufacturer, model, core count, clock speed, price, etc.) retrieved from the backend API.
- Implement a form to add new CPUs to the inventory. The form should collect relevant details for a CPU and submit the data to the backend for storage.
- Allow users to manage existing CPUs in the inventory.
- The UI doesn't need to be overly styled, but it should be clean and user-friendly.

Notes

- You are free to use any external libraries or tools to speed up the development process.
- Focus on writing clean and organized code, with emphasis on the separation of frontend and backend.
- Feel free to ask us any questions relating to requirements gathering.

What we're looking for

- System design.
- Choice of technologies.
- Assumptions made given the requirements.

Please try to spend less than 5 hours on this implementation. We don't expect your solution to be production grade, but you should be ready to discuss any additional features you would add to expand and improve functionality.

Good luck!