RMG

Senior Front-End Developer - Technical Assignment

Build a sample single-page application (SPA) that includes user authentication, product management, and invoice creation features—all without a real backend. Instead, you should use a fake API (or mock server) to simulate data interactions.

Application Requirements

1. Core Feature

Login Page

- Create a clean, modern login interface.
- Simulate user authentication. (It is acceptable to use a hardcoded user/password pair.)
- o Redirect successfully authenticated users to the Home page.

Home Page

- A dashboard or landing area that provides navigation to product management and invoice creation.
- o Include clear calls-to-action and an intuitive layout.

• Product Management

- Create Product: Allow users to input product details (e.g., name, description, price, etc.) and add a new product.
- List Products: Display a list of products fetched from a fake API.
- o **Edit/Delete Product:** Extra points for additional CRUD operations.

2. Technical Specifications

- Framework/Libraries: Angular, Angular Material.
- **Styling:** Ensure the application has a polished and professional design. You may use CSS frameworks (e.g., Tailwind, Bootstrap, Material UI) or write custom styles.
- Data Handling: Simulate API calls using a fake API tool (e.g., json-server, MirageJS, or similar).
 The application should mimic real-world API interactions.
- Responsiveness: The UI should be responsive and work well on both desktop and mobile devices.
- Code Quality: Follow best practices in coding, including clean code, modular design, and proper documentation/comments.

3. Bonus Points

- Performance: Optimize for performance and best practices (e.g., lazy loading, code splitting).
- Deliverables
- Source Code: Provide a link to a public Git repository (e.g., GitHub, GitLab) containing your source code.
- ReadMe File: Include instructions on how to set up and run the application locally. Describe
 any architectural decisions, libraries used, and any additional features implemented.
- Demo: (Optional) If possible, deploy the application (e.g., on Vercel, Netlify) and provide a
 demo link.

Evaluation Criteria

- **Code Quality:** Readability, maintainability, and adherence to best practices.
- **Technical Competence:** Demonstration of a strong understanding of modern front-end development techniques and technologies.
- **Design & UX:** The aesthetic quality and usability of the application.
- Problem-Solving: Effective use of a fake API to simulate backend functionality and handling of asynchronous data.
- **Documentation:** Clarity and thoroughness of your README and inline code comments.

Timeline

• **Assignment Duration:** You have up to 5 days from the time you receive this document to complete the assignment.

Submission Instructions

- 1. Fork the repository or create your own repository with your code.
- 2. Share the link to your repository (and the demo link if available).
- 3. Include any notes or instructions in your README file.