Technical Test for Full Stack Developer – LG CNS

Objective: This test will show the skills and strengths that you have as a developer, for which you are asked to develop a to-do list application using Vue.js (or React).

Part 1: Componentization and State

- **Create a To-Do List Application**
    - **Requirements:**
        - The application should have a form to add new tasks.
        - Each task should have a title, description, and a checkbox to mark it as completed.
        - The tasks should be displayed in a list, with an option to filter by all, completed, and pending.
        - Use centralized state management (Context API/Redux in React or Vuex in Vue.js) to handle the tasks' state.

Part 2: Interactivity and Events

- **To-Do List Interactivity**
    - **Objective:** Add interactivity to the to-do list.
    - **Requirements:**
        - Add a functionality to edit tasks.
        - Implement a button to delete tasks.
    - Bonus:
        - Add drag-and-drop functionality to reorder tasks in the list.

Part 3: API Integration

- **Integration with a REST API**
    - **Objective:** Connect the application to a REST API to persist tasks.
    - **Requirements:**
        - Use axios library or fetch to make requests to a REST API (you can use a fake API or create a simple API).
        - Implement CRUD operations for tasks.
        - Handle loading and error states during API requests.

Part 4: Styling and Design

- **Responsive Design and Styling**
    - **Objective:** Make the application visually appealing and responsive.
    - **Requirements:**
        - Use CSS Modules, Styled Components, or any preferred styling library/framework for styling (Bootstrap, Tailwind, SASS, etc)
    - **Bonus:**
        - Ensure the application looks good on both mobile and desktop devices.
        - Implement a dark and light theme with a button to toggle between them.

Submission

- **Repository:** Upload your code to a repository on GitHub or GitLab.
- **Instructions:** Include a README.md file with clear instructions on how to install dependencies, run the application, and execute the tests.

Evaluation Criteria

- **Functionality:** The application meets all the functional requirements.
- **Code Quality:** The code is well-structured, commented, and follows **clean code** practices.
- **Design:** The application is visually appealing and responsive.

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