

Problem Statement for Frontend Interview

Task Overview

The objective of this task is to design and implement a dynamic form rendering system that allows users to configure forms via a JSON configuration. The form should support conditional rendering of input fields based on user selections. This task will assess the candidate's ability to design a user-friendly interface and implement the logic required for dynamic form behavior.

Requirements

1. Dynamic Form Rendering: System must accept a JSON configuration that defines the structure of the form.
2. System must can support any input types
3. Conditional Rendering Logic: Form fields

Implementation Guidelines

1. Frontend Framework: Candidates can choose any frontend framework (e.g., React, Angular, Vue.js) for implementation.
2. State Management: Implement state management to handle form data and visibility of child elements dynamically.
3. User Experience: Ensure that the UI is intuitive and responsive. Provide clear feedback when fields are rendered or hidden based on user interaction.
4. Validation: Implement basic validation for required fields and provide appropriate error messages.

Evaluation Criteria

1. Design Quality: Clarity and usability of the UI.
2. Code Quality: Cleanliness and organisation of code.
3. Functionality: Correctness in rendering forms based on JSON configuration.
4. Testing: Include unit tests to validate the functionality of dynamic rendering and conditional logic.

Deliverables

- A working application that meets the requirements outlined above.
- Source code hosted in a public repository (e.g., GitHub).
- Deploy your application on any free hosting platform
- A brief README file explaining how to run the application and add any additional notes regarding implementation choices.