xTechnical Assignment: Angular JSON Forms Project

Objective

The goal of this assignment is to evaluate your understanding of **Angular (preferably Angular 15)**, **JSON-based dynamic forms using the `jsonforms.io` library** ([Reference](#)), **custom renderers**, and **Tailwind CSS for styling**. You are required to build an Angular project where the UI is dynamically generated using JSON-based forms, following a given screen design.

Phased Tasks

Phase 1: Project Setup

- Set up an **Angular 15** project.
- Install necessary dependencies, including `jsonforms.io` and Tailwind CSS.
- Configure Tailwind CSS in your Angular project.
- Set up the project structure with modular components.

Phase 2: Implement JSON Forms

- Use the `jsonforms.io` library to dynamically generate form fields from a JSON configuration.
- Ensure the form fields are displayed as per the provided screen design or pick any screen as per your wish.
- Implement **two different JSON configurations** to showcase different form layouts.

Phase 3: Custom Renderers

- Replace default form components with **custom Angular renderers**.
- Implement at least one custom renderer for a specific form element.
- Ensure that custom renderers adhere to the provided UI design.

Phase 4: Responsive Design & Styling

- Apply **Tailwind CSS** to ensure the UI is visually appealing.
- Make the application **fully responsive** for both **mobile and desktop views**.
- Ensure proper spacing, alignment, and overall user experience.

Phase 5: Form Validations & Interactive Elements

- Implement **validations** based on the JSON configuration.
- Add at least **one interactive component**, such as a dropdown that affects other fields dynamically.
- Ensure real-time validation feedback is displayed correctly.

Phase 6: Finalization & Submission

- Ensure the application functions correctly without errors.
- Add documentation (`README.md`) with setup instructions, JSON structure explanation, and assumptions made.
- Upload the project to **GitHub**.
- Record and submit a working demo or video showcasing the implementation.

Deliverables

- **GitHub Repository** with your code.
- **A working demo or video** showcasing the implementation.

Evaluation Criteria

- **Code Structure & Best Practices**
- **Understanding of Angular & JSON Forms (`jsonforms.io` library)**
- **Use of Custom Renderers**
- **UI/UX using Tailwind**
- **Error Handling & Form Validations**
- **Mobile & Desktop Responsiveness**
- **Adherence to the Provided UI Design**

Submission Deadline

For any questions, feel free to reach out or add any comments in this document.

Good luck!