

# FRONT END TEST

THE PURPOSE OF THIS ASSESSMENT IS TO EVALUATE YOUR SKILLS IN LOGIC, CODING STYLE, AND DEVELOPMENT OF INTERACTIVE WEB APPLICATIONS, AND FOR US TO KNOW HOW YOU STRUCTURE YOUR CODE AND COMPONENTS.

Host your code on a **Github** repository, provide us access to it and provide a simple **README** on how we can run and test your web app. **You will have 24 hours to complete this exam. Regardless of completion status, please submit the link to your public repository to our HR.**

THE TASK WILL ASSESS YOU ON:

- UI & UX Design.
- API calling & authentication.
- Caching and browser storage utilization.

## Case 1: Simple Login Page

- Build a responsive login page where users can input their username and password.
- Implement password validation that requires a minimum of 8 characters with at least 1 uppercase letter, 1 lowercase letter, and 1 special character.

### Note:

- Showcase your creativity and expertise in UI/UX design, incorporating animations/transitions on the page.

## Case 2: Role-Based Access and Sortable Table

- Upon successful login, the application should handle different roles (**Viewer**, **Editor**) and display a sortable table.
- The **Editor** role should be able to perform (Insert, Edit, and Delete).
- Implement a search functionality to filter the table list.
- All fields in the table should be sortable.

### Note:

- Demonstrate your skills in consuming **REST APIs**. Avoid using hardcoded data.
- Ensure the web application is **Responsive**, and works well on modern desktop browsers and mobile devices.
- **Do not use any CSS Frameworks. We want to see your handwritten styling abilities. You are only allowed to use React core libraries that come with CRA (Create React App).**
- Code should be written using up-to-date stacks, including **ES6**, **Typescript**, **HTML5**, and **SCSS**.

Below is a low fidelity mockup you may use as your reference. Feel free to do your design as long as the expected functionality is there.



A hand-drawn low-fidelity mockup of a login form. The form is enclosed in a rectangular border. Inside the border, the word "Username" is written above a horizontal line. Below that, the word "Password" is written above another horizontal line. At the bottom center of the form, there is a rectangular button with the text "LOG IN" inside it.

Upon receiving these instructions, you are expected to complete this test within **24 hours**.

Please complete the assessment within the given timeframe and showcase your expertise in developing interactive and user-friendly web applications. We are excited to see what you create!