

Title: Angular Template Driven Forms: Job Application Form Lab Exercise

Objective: The objective of this lab exercise is to practice creating and working with Angular template-driven forms in the context of a job application form. By completing this exercise, you will gain hands-on experience in building a form that collects applicant information and simulates a common real-world scenario.

Scenario: You are tasked with developing a job application form for a software development company. The form should collect information such as the applicant's name, email address, phone number, skills, and their desired position. Additionally, the form should include validation to ensure that all required fields are filled out correctly.

Tasks:

1. Setup:

- Create a new Angular project using Angular CLI.
- Set up a new component named `job-application-form` using Angular CLI.
- Open the project in your preferred code editor.

2. Form Creation:

- Inside the `job-application-form` component, create a template-driven form using Angular's built-in form directives.
- Design the form to include the following fields:
 - Name (text input)
 - Email Address (email input with validation)
 - Phone Number (text input with validation)
 - Skills (textarea input)
 - Desired Position (text input)

3. Validation:

- Implement validation for the form fields:
 - Name: Required field.
 - Email Address: Required field and should be a valid email address.
 - Phone Number: Required field and should be a valid phone number format.
 - Skills: Required field.
 - Desired Position: Required field.

4. Submission:

- Handle form submission by logging the form data to the console for now.
- Display a success message upon successful form submission.

5. **Styling:**

- Apply basic CSS styling to make the form visually appealing and user-friendly.

6. **Testing:**

- Test the form by filling it out with various scenarios:
 - Valid input for all fields.
 - Invalid input for one or more fields.
 - Submitting the form with no input.
 - Ensure validation messages are displayed correctly.

Additional Challenges (Optional):

- Implement custom validation for the phone number field to ensure it matches a specific format (e.g., country code + number).
- Add additional form fields relevant to the job application scenario, such as education background, work experience, and a file upload field for resumes.
- Integrate the form with a backend service to store the job application data.

Conclusion: By completing this lab exercise, you have gained practical experience in building an Angular template-driven form for a job application scenario. You have learned how to create form fields, implement validation, handle form submission, and apply basic styling. This exercise provides a solid foundation for working with forms in Angular applications, particularly in the context of job application processes.