Lab Exercise: Angular Data Binding

Objective

To understand and practice the various forms of data binding in Angular, including interpolation, property binding, event binding, and two-way binding.

Requirements

- Angular CLI installed on your machine.
- Basic knowledge of Angular project structure.
- Basic knowledge of TypeScript.

Setup

- 1. Create a new Angular project by running ng new data-binding-practice.
- 2. Navigate into your project directory (cd data-binding-practice).
- 3. Serve your application to verify its working: ng serve.
- 4. Open your project in your favorite code editor.

Exercises

Exercise 1: Interpolation

- 1. In your app component (app.component.ts), define a new property title with the value "Angular Data Binding Practice".
- 2. In the app component template (app.component.html), use interpolation to display the title property within an <h1> tag.
- 3. Serve your application to see the changes.

Exercise 2: Property Binding

- 1. Add a new property imagesrc in your app component with the value of any image URL.
- 2. In the app component template, use property binding to set the src attribute of an tag to the imagesrc property.
- 3. Serve your application to ensure the image is displayed.

Exercise 3: Event Binding

- 1. Add a button to your app component template with the text "Click me".
- 2. In the app component, define a method **onButtonClick()** that simply logs "Button was clicked!" to the console.
- 3. Use event binding to call onButtonClick() when the button is clicked.
- 4. Serve your application and open the developer console to see the log message when you click the button.

Exercise 4: Two-Way Binding

1. First, ensure FormsModule is imported in your app.module.ts file to use two-way data binding.

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- 2. In your app component, define a new property userInput with an initial value of an empty string.
- 3. Add an <input> element to your app component template.
- 4. Use two-way binding to bind the userInput property to the <input> element's value.
- 5. Below the <input>, use interpolation to dynamically display the userInput value as the user types.
- 6. Serve your application to see two-way data binding in action.

Conclusion

By completing these exercises, you should have a solid understanding of the different types of data binding in Angular and how they can be used to create dynamic, interactive web applications.