

Topic : forwardRef ...

Assignment: Custom Input with ForwardRef

Scenario:

You are tasked with building a small form that includes a custom input component. The application will allow users to enter their name and focus on the input field programmatically using a button.

This assignment will help you practice using forwardRef in React with TypeScript.

Requirements:

➤ Project Setup:

- Create a new React project with a TypeScript template and name it CustomInputApp.

➤ Component Structure:

Create a CustomInput Component:

- This component should use React.forwardRef to forward a ref to an input element.
- The component should render a simple input field that will receive focus when the ref is used.

Create an App Component:

- This component should include the CustomInput component and a button labeled "Focus Input".
- When the "Focus Input" button is clicked, the input field inside the CustomInput component should be focused.

Tasks:

1. Using forwardRef:

- Implement the CustomInput component to use React.forwardRef to forward a ref to the input element.
- Ensure that the forwarded ref allows the parent component to focus the input field.

2. Handling Focus:

- In the App component, create a ref using `React.useRef` and pass it to the `CustomInput` component.
- Implement an event handler that triggers when the "Focus Input" button is clicked, which uses the ref to focus the input field.

3. Expected Outcome:

- A simple form where the user can enter their name.
 - A button that, when clicked, focuses the input field programmatically.
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