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Instructions

1. How does JSX differ from HTML?

JSX is a JavaScript extension and, while HTML is a markup language.

JSX allows us to embed JavaScript expressions in the HTML.

JSX requires to close all tags, even self-closing tags.

Generally, JSX provides a way to write HTML-like code within JavaScript, allowing for more dynamic and interactive user interfaces in React applications.

2. Why is JSX used in React?

JSX is used in React for several reasons:

- **Embedding JavaScript**
- **Component composition**
- **Performance optimization**
- **Developer experience**
- **Declarative syntax**

3. Can you embed JavaScript expressions in JSX? If so, how?

Yes, we can embed JavaScript expressions, to insert dynamic data, variables, directly within JSX using curly braces { }

3. How do you write comments in JSX?

=> `{ /*comment goes here */ }`

5. Explain the significance of curly braces {} in JSX.

the curly braces { } in JSX play a crucial role in bridging the gap between JavaScript and JSX, enabling dynamic and expressive UI development in React applications.

6. Can JSX be directly rendered to the DOM?

JSX cannot be directly rendered to the **DOM**. It is not a valid HTML syntax, so it cannot be directly rendered by the browser. JSX needs to be transpiled into standard JavaScript before it can be rendered to the DOM.

7. What is the purpose of Babel in relation to JSX?

=> to transpile the JSX code into simple React functions that can be understood by browsers