

React JSX and Related Concepts

Define JSX

JSX (JavaScript XML) is a syntax extension for JavaScript, commonly used with React to describe what the UI should look like. JSX allows you to write HTML elements in JavaScript and place them in the DOM without using functions like `createElement()` or `appendChild()`.

Explain about ECMA Script

ECMAScript (ES) is the standard specification on which JavaScript is based. It defines the language rules, syntax, and features. Modern JavaScript (ES6 and beyond) includes features like `let/const`, arrow functions, classes, modules, and template literals.

Explain React.createElement()

`React.createElement()` is a method provided by React to create a React element (virtual DOM node). It takes three arguments: the element type, props, and children. JSX is syntactic sugar for `React.createElement()`.

Explain how to create React nodes with JSX

In JSX, React nodes are created by writing HTML-like syntax in JavaScript. For example: `const element = Hello, world!`; This is compiled into `React.createElement()` calls by tools like Babel.

Define how to render JSX to DOM

To render JSX to the DOM, use `ReactDOM.render()`. For example: `ReactDOM.render(document.getElementById('root'))`; This tells React to render the component into the DOM node with id 'root'.

Explain how to use JavaScript expressions in JSX

JavaScript expressions can be used inside JSX by enclosing them in curly braces `{}`. For example: `const name = 'John'; const greeting = Hello, {name}!`;

Explain how to use inline CSS in JSX

Inline CSS in JSX is written as an object with camelCase properties. For example: `const style = {color: 'red', backgroundColor: 'lightblue'}; Hello;`