React - ES6 Ternary Operator

Topics : React JS
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The ternary operator (`? :`) is a concise way to write conditional statements in JavaScript, including React applications. It allows you to write an inline if-else statement, making your code more compact. Here's a basic syntax of the ternary operator:

condition ? expressionIfTrue : expressionIfFalse;

In React, the ternary operator is commonly used in JSX to conditionally render different elements based on a condition. Here are some examples:

Conditional Rendering in JSX:

```
// Example 1: Simple conditional rendering
const Greeting = ({ isLoggedIn }) => (
<div>
{isLoggedIn ? <p>Welcome back!</p> : <p>Please log in.</p>}
</div>
);

// Example 2: Rendering different components based on a condition
const UserType = ({ isAdmin }) => (
<div>
{isAdmin ? <AdminComponent /> : <RegularComponent />}
</div>
);
```

Assigning Conditional Classes or Styles:

```
const Button = ({ isPrimary }) => (
<button className={isPrimary ? 'primary-button' : 'secondary-button'}>
Click me
</button>
);
```

Using Ternary Operator in JavaScript Logic:

```
const MyComponent = ({ data }) => (
<div>
{data.length > 0 ? (
<ul>
```

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```
{data.map((item, index) => (
<li key={index}>{item}</li>
))}
</ul>
) : (
<p>No data available.</p>
)}
</div>
);
```

Ternary Operator with React State:

```
class ToggleComponent extends React.Component {
constructor(props) {
super(props);
this.state = {
isToggled: false,
};
}

handleClick = () => {
this.setState((prevState) => ({ isToggled: !prevState.isToggled }));
};

render() {
return (
<div>
<button onClick={this.handleClick}>
{this.state.isToggled ? 'Toggle Off' : 'Toggle On'}
</button>
</div>
);
}
}
```

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