

CONDITIONAL RENDERING IN REACT

Conditional rendering in React refers to the ability to render different UI markup based on certain conditions. This feature allows developers to create more dynamic and responsive applications. Here's a detailed guide on the various methods of conditional rendering in React.

1. USING THE TERNARY OPERATOR

The ternary operator is a concise way to conditionally render components.

Example:

```
function Greeting(props) {  
  return (  
    props.isLoggedIn ? <h1>Welcome back!</h1> :  
    <h1>Please sign up.</h1>  
  );  
}
```

2. USING LOGICAL && OPERATOR

If you want to conditionally render something based on the truthiness of a variable, you can use the `&&` operator.

Example:

```
function WarningBanner(props) {  
  if (!props.warn) {  
    return null;  
  }  
  
  return (  
    <div className="warning">  
      Warning!  
    </div>  
  );  
}
```

```
    </div>
  );
}
```

3. USING SHORT-CIRCUIT EVALUATION

This method involves using the `||` operator to provide a default value when a given expression evaluates to `false`.

Example:

```
function WelcomeMessage(props) {
  return <h1>{props.message || 'Welcome to our website!'}
</h1>;
}
```

4. USING ENUMERATIONS

For components with multiple states, you can use objects to store the different states and render the appropriate one based on conditions.

Example:

```
function Status(props) {
  const STATUS = {
    LOADING: <h1>Loading...</h1>,
    SUCCESS: <h1>Data loaded successfully!</h1>,
    ERROR: <h1>Error loading data.</h1>
  };

  return STATUS[props.statusType];
}
```

CONCLUSION

Conditional rendering is a powerful feature in React that allows developers to create dynamic user interfaces based on various conditions. By understanding and using the different methods of

conditional rendering, you can enhance the user experience and make your applications more interactive and responsive.