CONDITIONAL RENDERING IN REACT JS

Conditional Rendering in React JS refers to rendering components based on certain predefined conditions. This allows the developer to decide which component to render and which to not on the screen depending on some conditions.

Conditional rendering is needed in many situations. Consider the following example where the developer will need to use conditional rendering-

There may arise a situation when we want to render something based on some condition. For example, consider the situation of handling a login/logout button. Both the buttons have different functions so they will be separate components.

Now, the task is if a user is logged in then we will have to render the Logout component to display the logout button and if the user is not logged in then we will have to render the Login component to display the login button.

**Implementing Conditional Rendering**

3 Ways to implement conditional rendering:

Using If-else statement

Using Logical && Operator

Using Ternary Operator

**1. Using if-else Statement**

We can create two components and create a boolean variable which decides the element to be rendered on the screen.

**if-else Conditional Rendering Syntax:**

function MyComp(props){

const myBool = props.myBool;  
 if (myBool) {  
 return <Component1/>;  
 } else{  
 return <Component2/>;  
 }

}

**2. Conditional Rendering using logical && operator**

We can use the logical && operator along with some condition to decide what will appear in output based on whether the condition evaluates to true or false. Below is the syntax of using the logical && operator with conditions:

**logical && operator Syntax:**

{

*condition* &&  
   
 // This section will contain  
 // elements you want to return  
 // that will be a part of output  
}

If the ***condition*** provided in the above syntax evaluates to true then the elements right after the && operator will be a part of the output and if the condition evaluates to false then the code within the curly braces will not appear in the output.

**3. Conditional Rendering using ternary operator**

In JavaScript we have a short syntax for writing the if-else conditions due to which the code becomes shorter and easy to read. If the boolean returns true then the element on left will be rendered otherwise element on the right will be rendered

**Ternary Operator Syntax:**

Function MyComp(props) {  
 const myBool = props.myBool;  
 return(  
 <>  
 {myBool? <Component 1/>: <Component 2/>}  
 </>   
 )  
}