



PORTALS IN REACT



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INTRODUCTION:

React portals provide a first-class way to render and allow child components, which are typically present outside the DOM, to live within a Document Object Model (DOM) node.



When the child component visually separates out from its parent component, the portal can be used as a modal dialog box, tooltip, or loader to create the child component.



The Importance of Using Portals:

A portal behaves just like a standard component of React, and it can be anywhere in the DOM tree. It has all the power that other components in React have. Below are the advantages of using React portals:

- React portals can use context to transfer data.
- Event Bubbling: By using the portal, which is situated outside the DOM tree, we can communicate with our parent component, which is located at the REACT DOM tree.



How to Use a Portal?

The code below will create a modal using the “createPortal()” to create a DOM node outside the root tree hierarchy.

```
src > PortalModal.jsx > ...
1  import React from "react";
2  import ReactDOM from "react-dom";
3
4  const PortalModal = ({ message, isOpen, onClose }) => {
5    if (!isOpen) return null;
6    return ReactDOM.createPortal(
7      <div className="modal">
8        <h2>{message}</h2>
9        <button className="close" onClick={onClose}>
10          X
11        </button>
12      </div>,
13      document.body
14    );
15  };
16
17  export default PortalModal;
18
```



This is a child component using a portal. The code below is how to fetch it in our parent component.

```
src > JS App.js > ...
1  import React, { useState } from "react";
2  import PortalModal from "../PortalModal";
3  import "../App.css";
4
5  function App() {
6    const [openp, setOpenP] = useState(false);
7    return (
8      <div className="container">
9        <div className="button-container">
10         <button className="button" onClick={() => setOpenP(!openp)}>
11           Open Portal Modal
12         </button>
13       </div>
14       <div>
15         <PortalModal
16           message="Modal outside of parent Component but in DOM tree"
17           isOpen={openp}
18           onClose={() => setOpenP(false)}
19         />
20       </div>
21     </div>
22   );
23 }
24
25 export default App;
26
```



Syntax of React Portal:

In the syntax below, the first argument (child) is any component we want to render, such as an element, string, or fragment. The second argument (container) is a DOM element.

```
ReactDOM.createPortal(child, container)
```

React Portals Are Easy to Understand:

Even when the component resides outside the DOM hierarchy, we can use React portals to work as we usually would in the hierarchy. For more information on these technical services, contact our experts today.



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References:

Understanding React Portals and Their Importance - Perficient Blogs