

useLocation

React Router DOM ka useLocation hook ek React component ko **current location object** ke baare me information provide karta hai. Yeh hook kaafi useful hota hai jab aapko current URL ke specific details ke basis par koi logic implement karna ho.

useLocation Kya Karta Hai?

useLocation hook aapko **current location object** deta hai, jo URL ke baare me details contain karta hai. Iska output kuch is tarah hota hai:


```
{
  pathname: "/current-path",
  search: "?query=parameter",
  hash: "#hash",
  state: { someState: "value" },
  key: "uniqueKey"
}
```

Location Object Ki Properties

1. `pathname` :

- Current URL ka path (e.g., `/home` , `/profile`).
- Example:

javascript


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```
const location = useLocation();
console.log(location.pathname); // "/profile"
```

2. `search` :

- URL query string (e.g., `?name=John&age=30`).
- Example:

javascript


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```
const location = useLocation();
console.log(location.search); // "?name=John&age=30"
```

3. hash :

- URL ka hash fragment (e.g., #about).
- Example:

javascript

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```
const location = useLocation();  
console.log(location.hash); // "#about"
```

4. state :

- React Router ke Link ya navigate method ke saath pass ki gayi state.
- Example:

javascript

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```
const location = useLocation();  
console.log(location.state); // { someState: "value" }
```

5.key:

- A unique key, jo location changes ke liye generate hota hai.

Kab Aur Kyu useLocation Use Karte Hain?

1. Query Parameters Access Karna

Query string ke parameters ko access karne ke liye:

```
import { useLocation } from "react-router-dom";  
  
const MyComponent = () => {  
  const location = useLocation();  
  const params = new URLSearchParams(location.search);  
  console.log(params.get("name")); // "John"  
};
```

2. Conditionally Render Components

URL ke path ya query string ke basis par kuch render karna:

```
javascript

const location = useLocation();

if (location.pathname === "/dashboard") {
  return <Dashboard />;
} else {
  return <Home />;
}
```

3. Pass State Between Routes

Kisi route se state pass karna aur agle route me usse retrieve karna:

```
javascript Copy code

// From Link Component
<Link to="/profile" state={{ from: "homepage" }}>Go to Profile</Link>

// Retrieve in Target Component
const location = useLocation();
console.log(location.state); // { from: "homepage" }
```

4. Track Navigation History

Navigation ka pata lagane ke liye:

```
javascript

const location = useLocation();
useEffect(() => {
  console.log("Location changed to:", location.pathname);
}, [location]);
```

Summary

useLocation ek powerful hook hai jo app ke navigation ke context me kaam aata hai. Yeh tab useful hota hai jab आपको:

- Current URL ke query parameters, path, ya state access karni ho.
- Navigation ke basis par koi conditional logic lagani ho
