

◆ Current Skill Router Hooks

Router hooks

The react router library embrace the power of hooks, since the fifth version and introduce four lifferents hooks to help our routing.

- useNavigate()
- useLocation()
- useParams()
- useRouteMatch()

We are going to explore each one of these hooks in the next slides

useNavigate() and useLocation()

useNavigate is a hook that return a function allowing us to change the url whenever we want.
 It gives the same the result as the Link but it the navigate function can be used inside another function.

Let's see the example below, where the profile page will navigate to the home 5 seconds

```
When we click this button the navigate function will change the url to
     `/profile` and render the profile component
     <button onClick={() => navigate('/profile')}>Navigate to Profile </button>
   </div>
 )
const Profile = () => {
 const navigate = useNavigate();
 const [timer, setTimer] = useState(0)
 useEffect(() => {
  setInterval(() => {
    setTimer(timer + 1)
  }, 1000);
 })
 /*
After the 5 second the function navigate will change the url into `/`
 and the home page will be rendered
 */
useEffect(() => {
  setTimeout(() => {
    navigate('/')
  }, 5000);
 }, [])
 return (
   <div>
    <h1>Profile Page</h1>
    >
      Count down: <span>{timer}</span>
    </div>
function App() {
```

```
<div className="App">
     <Routes>
       <Route path='/' element={<Home />}></Route>
       <Route index path='/profile' element={<Profile />}></Route>
     </Routes>
   </div>
 );
export default App;
  • useLocation: This hook returns the location object used by the react-router. This object
     represents the current URL and is immutable. Whenever the URL changes, the useLocation()
     hook returns a newly updated location object. Some of its use includes extracting the query
     parameters from the URL
In the example below, we create a new route about where the element to render is the About page
import { useEffect } from 'react'
import { useLocation } from 'react-router-dom'
const About = () => {
   const location = useLocation()
   useEffect(() => {
       }, [])
   return (
       <div>
           <h1>
               About Page
           </h1>
       </div>
```

return (

The output of the useEffect function is the image below:

useParams() and useMatchRoute()

useParams(): This hook returns an object that consists of all the parameters in URL.

In the example below, we navigate to /profile/admin where admin is the id of user

```
import { useEffect } from 'react';
import { Route, Routes, useNavigate, useParams } from 'react-router-dom';
import './App.css';
const Home = () => {
 const navigate = useNavigate();
 return (
   <div>
    <h1>
      Home page
    </h1>
     <button onClick={() => navigate('/profile/John')}>Navigate to Profile </button>
   </div>
const Profile = () => {
 const params = useParams();
 useEffect(() => {
   console.log(" ~ file: App.js ~ line 23 ~ Profile ~ params", params)
```

```
})
 return (
   <div>
     <h1>Profile Page</h1>
      this page is for {params.name}
    </div>
 )
function App() {
 return (
   <div className="App">
     <Routes>
      <Route path='/' element={<Home />}></Route>
      {/* Here the parameter is the url is called `name`
      so the param that will be injected in useParams hook will be `name` */}
      <Route index path='/profile/:name' element={<Profile />}></Route>
     </Routes>
   </div>
 );
export default App;
```

The output of console.log will be the below:

• useMatchRoute: Returns match data about a route at the given path relative to the current location.

Let's have an example to make it more clear.

```
import { useEffect } from 'react';
import { Route, Routes, useMatch, useNavigate } from 'react-router-dom';
import './App.css';
const Home = () => {
 const navigate = useNavigate();
 return (
   <div>
    <h1>
      Home page
    </h1>
    <button onClick={() => navigate('/profile/John')}>Navigate to Profile </button>
   </div>
 )
const Profile = () => {
 const match = useMatch('/profile/:name');
useEffect(() => {
  console.log("♥ ~ file: App.js ~ line 23 ~ Profile ~ params", match)
 })
 return (
   <div>
    <h1>Profile Page</h1>
    >
      this page is for {match.params.name}
    </div>
function App() {
 return (
   <div className="App">
```

```
<Routes>
          <Route path='/' element={<Home />}></Route>
          <Route index path='/profile/:name' element={<Profile />}></Route>
        </Routes>
Ш
       </div>
     );
    export default App;
   The output of console.log will be the below:
        file: App.js ~ line 23 ~ Profile ~ params
      pathname: "/profile/John"
       pathnameBase: "/profile/John"
       vpattern:
        caseSensitive: false
       Previous
                                                                                     next >
```