React Router

Installation

```
npm install react-router-dom
```

Initialisation

Utilisation

```
import { Link, Route, Routes } from "react-router-dom";
function App() {
       return (
                       <nav>
                              ul>
                                      <Link to="/">Home</Link>
                                      <Link to="/books">Books</Link>
                              </nav>
                      <Routes>
                              <Route path="/" element={<Home />} />
                              <Route path="/books" element={<Books />} />
                              <Route path="/books/:id" element={<Book />} />
                              <Route path="/books/new" element={<NewBook />} />
                              <Route path="*" element={<NotFound />} />
                      </Routes>
```

```
)
}
```

Nested routes

```
}
```

Nested routes in separate files

```
import { useRoutes } from "react-router-dom";
let elements = useRoutes([
                path: "/",
                element: <NavLayout />,
                children: [
                                 index: true,
                                 element: <Home />
                         },
                                 path: 'about',
                                 element: <About />
                         },
                                 path: 'contact',
                                 element: <Contact />
                         },
                                 path: "*",
                                 element: <NotFound />
]);
{elements}
```

Link

```
<Link to="/login" replace>Login</Link>
<Link to="/" reloadDocument>Home</Link>
```

NavLink

```
<NavLink style={({ isActive }) => {
        return isActive ? { color: 'red' } : {}
}} to="/">
        {({ isActive }) => {
            return isActive ? "Active Home" : "Home"
```

```
}}
</NavLink>
```

Navigate and useNavigate

```
// NotFound.jsx
import { Navigate } from "react-router-dom";

function NotFound() {
    return <Navigate to="/" />
}
```

SearchParameters

```
import { useSearchParams } from "react-router-dom";

const [searchParams, setSearchParams] = useSearchParams({ n: 3 });
const number = searchParams.get("n");

...
```

State

```
import { useLocation } from "react-router-dom";
...
<NavLink to="/" state="Hi">Home</NavLink>
```

```
const location = useLocation();
location.state; // -> "Hi"
```