JOBSHEET 4

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Experiment:

1- Create a new react project:

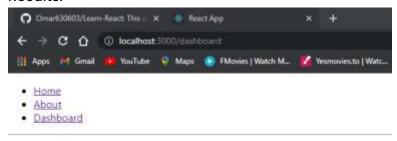


2- Edit file App.js and run the project:



3- Edit the routes because of an error that Route tag can't have Elements inside it so we use the new way:

4- Results:



Dashboard

5- URL Parameters

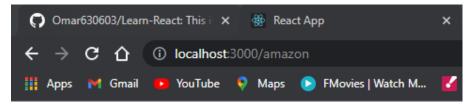
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6- Results:



- Netflix
- Gmail
- Yahoo
- Amazon

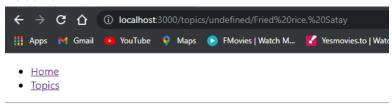
ID: amazon

7- Use Nesting Router:

The method in the jobsheet doesn't work so I did some search and this is the results:



8- Results:



Topics

- Food
- <u>Travelling</u>
- Review

Fried rice, Satay

9- Use Redirects (Auth):

In this experiment we learn how to configure authentication in ReactJS.

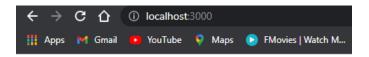
There have been some changes to the code since I'm using react v6:

```
import React from "react";
import {
  BrowserRouter as Router,
  Link,
  Route,
  Routes, //in the new router-dom version, Switch is used
  Navigate, //In older versions, Redirect is used
  useNavigate, //In older versions, useHistory is used
 useLocation,
} from "react-router-dom";
export default function AuthExample() {
  return (
    <Router>
     <div>
        <AuthButton />
        <l
          <1i>>
            <Link to="/">Home Page</Link>
          <1i>>
            <Link to="/public">Public Page</Link>
          <1i>>
            <Link to="/private">Private Page</Link>
          <Route path="/" element={<Home />}></Route>
          <Route path="/public" element={<PublicPage />}></Route>
          <Route path="/login" element={<LoginPage />}></Route>
            path="/private"
            element={
              <PrivateRoute>
                <ProtectedPage />
              </PrivateRoute>
          ></Route>
        </Routes>
      </div>
    </Router>
```

```
function Home() {
  return (
      <h2>Home</h2>
    </div>
  );
const fakeAuth = {
  isAuthenticated: false,
  authenticate(cb) {
    fakeAuth.isAuthenticated = true;
    setTimeout(cb, 100);
  },
  signout(cb) {
    fakeAuth.isAuthenticated = false;
    setTimeout(cb, 100);
 },
};
function AuthButton() {
  let navigate = useNavigate();
  let location = useLocation();
  let { from } = location.state || { from: { pathname: "/" } };
  return fakeAuth.isAuthenticated ? (
      <h2>Welcome! </h2>
      <button
        onClick={() => {
          fakeAuth.signout(() => navigate("/", { from }));
        Sign out
      </button>
    </div>
    You are not logged in.
  );
function PrivateRoute({ children }) {
  let auth = fakeAuth;
  let location = useLocation();
 if (!auth.isAuthenticated) {
```

```
return <Navigate to="/login" state={{ from: location }} />;
  return children;
function PublicPage() {
 return (
      <h2>Public</h2>
    </div>
  );
function ProtectedPage() {
  return (
     <h2>Private</h2>
    </div>
  );
function LoginPage() {
  let navigate = useNavigate();
  let location = useLocation();
  let { from } = location.state || { from: { pathname: "/" } };
  let login = () => {
    fakeAuth.authenticate(() => {
      navigate("/private", { from });
    });
  };
  return (
      You must log in to view the page at {from.pathname}
      <button onClick={login}>Log in
    </div>
  );
```

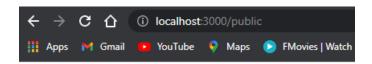
10-Results:



You are not logged in.

- Home Page
- Public Page
- Private Page

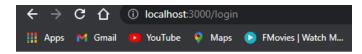
Home



/ou are not logged in.

- Home Page
- Public Page
- Private Page

Public

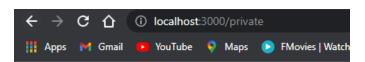


You are not logged in.

- Home Page
- Public Page
- Private Page

You must log in to view the page at /private

Log in



Welcome!

Sign out

- Home Page
- Public Page
- Private Page

Private