# Laporan Praktikum Minggu-4 Mata Kuliah Pemrograman Berbasis Framework "MODUL 5: React Router"



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# JURUSAN TEKNOLOGI INFORMASI PROGRAM STUDI D-IV TEKNIK INFORMATIKA MARET 2022

## 1.1 Practicum Steps

#### A. Basic Router

Source Code

```
import React from 'react';
import {
 BrowserRouter as Router,
 Switch,
 Route,
 Link
} from "react-router-dom"
import { Redirect, useHistory, useLocation, useParams,
useRouteMatch
} from 'react-router-dom/cjs/react-router-dom.min';
export default function BasicExample(){
 return (
   <Router>
     <div>
       <u1>
           <Link to="/">Home</Link>
         <1i>>
           <Link to="/about">About</Link>
         <1i>>
           <Link to="/dashboard">Dashboard</Link>
       <hr/>
       <Switch>
       <Route exact path="/">
           <Home />
         </Route>
         <Route exact path="/about">
           <About />
         </Route>
         <Route exact path="/dashboard">
           <Dashboard />
         </Route>
       </Switch>
     </div>
    </Router>
```

```
function Home() {
 return (
   <div>
     <h2>Home</h2>
   </div>
 );
function About() {
 return (
   <div>
     <h2>About</h2>
   </div>
 );
function Dashboard() {
 return (
   <div>
     <h2>Dashboard</h2>
   </div>
 );
```



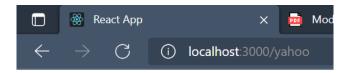
- Home
- About
- Dashboard

# **Dashboard**

- **B. URL Parameters**
- Source Code

```
<h2>Accounts</h2>
       <u1>
         <1i>>
          <Link to="/netflix">Netflix</Link>
         <1i>>
           <Link to="/gmail">Gmail</Link>
         <1i>>
          <Link to="/yahoo">Yahoo</Link>
        <1i>>
          <Link to="/amazon">Amazon</Link>
         <hr />
       <Switch>
        <Route path="/:id" children={<Child />} />
       </Switch>
     </div>
   </Router>
 );
function Child() {
 let { id } = useParams();
 return (
   <div>
     <h3>ID: {id}</h3>
   </div>
 );
```

• Hasil



## Accounts

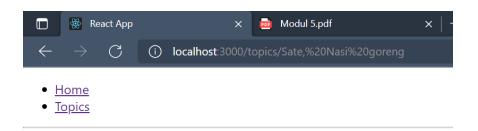
- Netflix
- Gmail
- Yahoo
- <u>Amazon</u>

# ID: yahoo

- C. Use Nesting Router
- Source Code

```
export default function NestingExample() {
   <Router>
     <div>
       <u1>
         <1i>>
           <Link to="/">Home</Link>
         <Link to="/topics">Topics</Link>
         <Switch>
         <Route exact path="/">
           <Home />
         </Route>
         <Route path="/topics">
           <Topics />
         </Route>
       </Switch>
     </div>
   </Router>
 );
function Home() {
```

```
return (
   <div>
     < h2 > Home < /h2 >
   </div>
  );
function Topics() {
 let { path, url } = useRouteMatch();
 return (
   <div>
     <h2>Topics</h2>
     <u1>
       <1i>>
         <Link to={\`${url}/Sate, Nasi goreng`}>Kuliner</Link>
       <1i>>
         <Link to={\${url}/Wisata alam,
Museum`}>Travelling</Link>
       <1i>>
          <Link to={`${url}/Salaris, JW Marriot`}>Review
Hotel</Link>
       <Switch>
       <Route exact path={path}>
         <h3>Please select a topic.</h3>
       </Route>
       <Route path={`${path}/:topicId`}>
         <Topic />
       </Route>
     </Switch>
   </div>
  );
function Topic() {
 let { topicId } = useParams();
 return (
```



# **Topics**

- Kuliner
- <u>Travelling</u>
- Review Hotel

## Sate, Nasi goreng

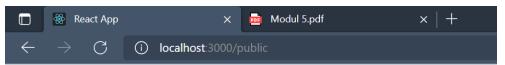
- D. Use Redirects (Auth)
- Source Code

```
import logo from './logo.svg';
// import './App.css';
import React from 'react';
import {
 BrowserRouter as Router,
 Switch,
 Route,
 Link
} from "react-router-dom"
import { Redirect, useHistory, useLocation, useParams,
useRouteMatch
} from 'react-router-dom/cjs/react-router-dom.min';
export default function AuthExample() {
 return (
   <Router>
      <div>
        <AuthButton />
        <u1>
          <1i>>
```

```
<Link to="/public">Public Page</Link>
         <1i>>
           <Link to="/private">Private Page</Link>
         <Switch>
         <Route path="/public">
           <PublicPage />
         </Route>
         <Route path="/login">
           <LoginPage />
         </Route>
         <PrivateRoute path="/private">
           <ProtectedPage />
         </PrivateRoute>
       </Switch>
     </div>
   </Router>
 );
const fakeAuth = {
 isAuthenticated: false,
 authenticate(cb) {
   fakeAuth.isAuthenticated = true;
   setTimeout(cb, 100);
 signout(cb) {
   fakeAuth.isAuthenticated = false;
   setTimeout(cb, 100);
 },
};
function AuthButton() {
 let history = useHistory();
 let location = useLocation();
 let { from } = location.state || { from: { pathname: "/" } };
 return fakeAuth.isAuthenticated ? (
   >
     Welcome!{" "}
```

```
<button
       onClick={() => {
         fakeAuth.signout(() => history.push(from));
       }}
       Sign out
     </button>
   You are not logged in.
 );
function PrivateRoute({ children, ...rest }) {
 return (
   <Route
     {...rest}
     render={({ location }) =>
       fakeAuth.isAuthenticated ? (
         children
       ) : (
         <Redirect
           to={ {
             pathname: "/login",
             state: { from: location },
           }}
  );
function PublicPage() {
 return (
   <div>
     <h3>Public</h3>
   </div>
  );
function ProtectedPage() {
 return (
```

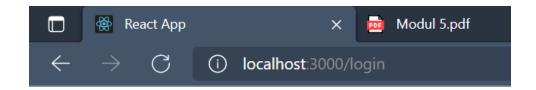
```
<div>
     <h3>Private</h3>
   </div>
 );
function LoginPage() {
 let history = useHistory();
 let location = useLocation();
 let { from } = location.state || { from: { pathname: "/" } };
 let login = () => {
   fakeAuth.authenticate(() => {
     history.replace(from);
   });
 };
 return (
   <div>
     You must log in to view the page at {from.pathname}
     <button onClick={login}>Log in
   </div>
 );
```



You are not logged in.

- <u>Public Page</u>
- Private Page

## **Public**



You are not logged in.

- Public Page
- Private Page

You must log in to view the page at /private

Log in

#### **TUGAS**

### source code

```
import React from 'react';
import {
 BrowserRouter as Router,
 Switch,
 Route,
 Link
 from "react-router-dom"
import {
 Redirect, useHistory, useLocation, useParams, useRouteMatch
} from 'react-router-dom/cjs/react-router-dom.min';
import G1 from "./img/g1.png";
import G2 from "./img/g2.png";
import G3 from "./img/g3.png";
export default function AuthExample() {
   return (
      <Router>
       <div>
          <AuthButton />
          <u1>
            <1i>>
             <Link to="/public">About US</Link>
            <1i>>
              <Link to="/private">Catalog Page</Link>
```

```
<Switch>
          <Route path="/public">
           <PublicPage />
          </Route>
          <Route path="/login">
           <LoginPage />
          </Route>
         <PrivateRoute path="/private">
            <ProtectedPage />
          </PrivateRoute>
       </Switch>
     </div>
   </Router>
 );
const fakeAuth = {
 isAuthenticated: false,
 authenticate(cb) {
   fakeAuth.isAuthenticated = true;
   setTimeout(cb, 100);
 },
 signout(cb) {
   fakeAuth.isAuthenticated = false;
   setTimeout(cb, 100);
 },
};
function AuthButton() {
 let history = useHistory();
 let location = useLocation();
 let { from } = location.state || { from: { pathname: "/" } };
 return fakeAuth.isAuthenticated ? (
     Welcome to our Online Shop!{" "}
     <button
       onClick={() => {
          fakeAuth.signout(() => history.push(from));
       }}
```

```
Sign out
     </button>
   Anda masih belum login.
  );
function PrivateRoute({ children, ...rest }) {
 return (
   <Route
      {...rest}
      render={({ location }) =>
        fakeAuth.isAuthenticated ? (
          children
        ) : (
         <Redirect
            to={ {
             pathname: "/login",
              state: { from: location },
            }}
       )
}
function PublicPage() {
 return (
   <div>
     <h3>About Us</h3>
     < h4 > Online Shop - 2022 < /h4 >
      <h5>Owner : Khosy Robbin Hood</h5>
   </div>
 );
}
function ProtectedPage() {
 return (
   <div>
     <h3>Silahkan melihat Barang-barang di Toko kami</h3>
      <u1>
```

```
Sepatu G1
         <img src={G1}></img>
         Sepatu G2
         <img src={G2}></img>
         Sepatu G3
         <img src={G3}></img>
     </div>
function LoginPage() {
 let history = useHistory();
 let location = useLocation();
 let { from } = location.state || { from: { pathname: "/" } };
 let login = () => {
   fakeAuth.authenticate(() => {
     history.replace(from);
   });
 };
 return (
   <div>
     Silahkan Login untuk melihat barang {from.pathname}
     <button onClick={login}>Log in</putton>
   </div>
 );
}
```



