LAPORAN TUGAS MATA KULIAH PEMROGRAMAN BERBASIS FRAMEWORK



Nama : Alenovan Wiradhika Putra

Kelas : TI-3C D-IV

T.INFORMATIKA NIM1741720065

No. Absen 02

PROGRAM STUDI D-IV TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG 2020 Setelah kita sukses melakukan instalasi react (npm install), kita perlu menambahkan library react router dengan menambahkan npm install react-router-dom.

```
PS D:\Kuliah\Semester 6\React\pertemuan 5\starter> npm install react-router-dom
npm <mark>WARN</mark> rollback Rolling back node-pre-gyp@0.14.0 failed (this is probably harmless): EPERM: opera
lstat 'D:\Kuliah\Semester 6\React\pertemuan 5\starter\node modules\webpack-dev-server\node modules
les'
npm WARN eslint-config-react-app@5.2.0 requires a peer of eslint-plugin-flowtype@3.x but none is in
nstall peer dependencies yourself.
npm WARN tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >
5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. Yo
dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (node modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.2: wanted {"os"
ny"} (current: {"os":"win32","arch":"x64"})
npm <mark>WARN</mark> optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\webpack-dev-server\no
):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"o:
any" (current: {"os":"win32", "arch": "x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node modules\watchpack\node module
npm <mark>WARN</mark> notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"o:
    (current: {"os":"win32","arch":"x64"})
npm <mark>WARN</mark> optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\jest-haste-map\node_
    NARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"o:
```

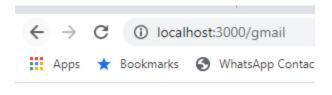
Kemudian buka app.js pada dan ketikkan code dibawah ini

- ① localhost:3000/dashboard ② localhost:3000/about localhost:3000
 - Home
 - About
 - dashboard

```
<Link to="/">Home</Link>
    <Link to="/about">About</Link>
    <Link to="/dashboard">dashboard</Link>
   </div>
  <Switch>
   <Route exact path="/"></Route>
   <Route exact path="/about"></Route>
   <Route exact path="/dashboard"></Route>
  </Switch>
 </Router>
function Home() {
return (
  <h2>Home</h2>
 </div>
function About() {
return (
  <h2>About</h2>
 </div>
function Dashboard() {
return (
  <h2>Dashboard</h2>
 </div>
```

URL Parameters

- 1. Pada percobaan kali ini kita mencoba membuat link react router dengan menggunakan params, sehingga kita hanya membuat satu template yang dapat berubah kontenya sesuai dengan apa yang kita klik.
- 2. Ketikkan seperti code dibawah ini.

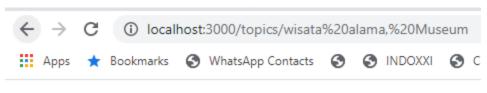


- netflix
- gmail
- yahoo
- amazon

ID: gmail

```
import React from 'react';
import logo from './logo.svg';
import './App.css';
import {
BrowserRouter as Router,
Switch,
 Route,
useParams
} from "react-router-dom";
export default function BasicExample() {
return (
 <Router>
    <Link to="/netflix">netflix</Link>
    <Link to="/gmail">gmail</Link>
    <Link to="/yahoo">yahoo</Link>
    <Link to="/amazon">amazon</Link>
   </div>
  <Switch>
   <Route path="/:id" children={<Child />}></Route>
  </Switch>
  </Router>
```

- c. Use Nesting Router
- 1. Jika kita ingin melakukan percabangan link di dalam react router, maka kita dapat menggunakan cara ini sebagai solusinya.
- 2. Ketikkan seperti code dibawah ini



- Home
- Topics

Topics

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

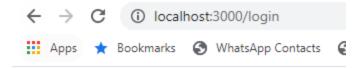
wisata alama, Museum

```
import React from 'react';
import './App.css';
import {
   BrowserRouter as Router,
   Switch,
   Route,
   Link,
   useParams,
   useRouteMatch
```

```
} from "react-router-dom";
export default function BasicExample() {
 return (
 <Router>
    <Link to="/hone">Home</Link>
    <Link to="/topics">Topics</Link>
   </div>
  <Switch>
   <Route exact path="/"><Home /></Route>
   <Route path="/topics"><Topics /></Route>
  </Switch>
 </Router>
function Home() {
return (
  <h2>Home</h2>
 </div>
function Topics() {
let { path, url } = useRouteMatch();
return (
  <h2>Topics</h2>
   <Link to={`${url}/Sate, Nasi Goreng`}>Kuliner</Link>
   <Link to={`${url}/wisata alama, Museum`}>Travelling</Link>
   <Link to={`${url}/ibis, jw marriot`}>Review Hotel</Link>
  <Switch>
   <Route exact path={path}>
    <h3>Please select a topic</h3>
   </Route>
   <Route path={`${path}/:topicId`}>
```

Use Redirects (Auth)

- 1. Cara ini dapat anda gunakan untuk masuk ke halaman yang membutuhkan authentication. Setelah masuk dan melakukan klik ke menu lain termasuk masuk ke halaman yang memerlukan authentication, posisi user tidak perlu login ulang (karena posisi sudah logged) sampai user malakukan sign out.
- 2. Ketikkan seperti code dibawah ini



Your are not logged

- Public Page
- Private Page

You Must Log in to vew the page at /private

Log in

```
import React from 'react';
import './App.css';
import {
   BrowserRouter as Router,
   Switch,
   Route,
```

```
Link,
 Redirect,
useHistory,
useLocation
} from "react-router-dom";
export default function AuthExample() {
return (
  <Router>
   <AuthButton />
     <Link to="/public">Public Page</Link>
     <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();
return fakeAuth.isAuthenticated?(
   Welcome !{" "}
  <button onClick={() => { fakeAuth.signout(() => history.push("/")); }} />
```

```
):(
   Your are not logged
function PrivateRoute({ children, ...rest }) {
 return (
 <Route
   {...rest}
   render={({ location }) =>
   fakeAuth.isAuthenticated?(
     children
    ):(
      <Redirect to={{
       pathname: "/login",
       state: { from: location }
function LoginPage() {
let history = useHistory();
let location = useLocation();
let { from } = location.state | | { from: { pathname: "/" } }
let login = () => {
 fakeAuth.authenticate(() => {
   history.replace(from)
return (
   You Must Log in to vew the page at {from.pathname}
  <button onClick={login}>Log in</button>
 </div>
function PublicPage() {
return <h3>Public</h3>
```

```
function ProtectedPage() {
  return <h3>Private</h3>
}
```