

LAPORAN PEMROGRAMAN FRAMEWORK

“SESSION 5”



Oleh:

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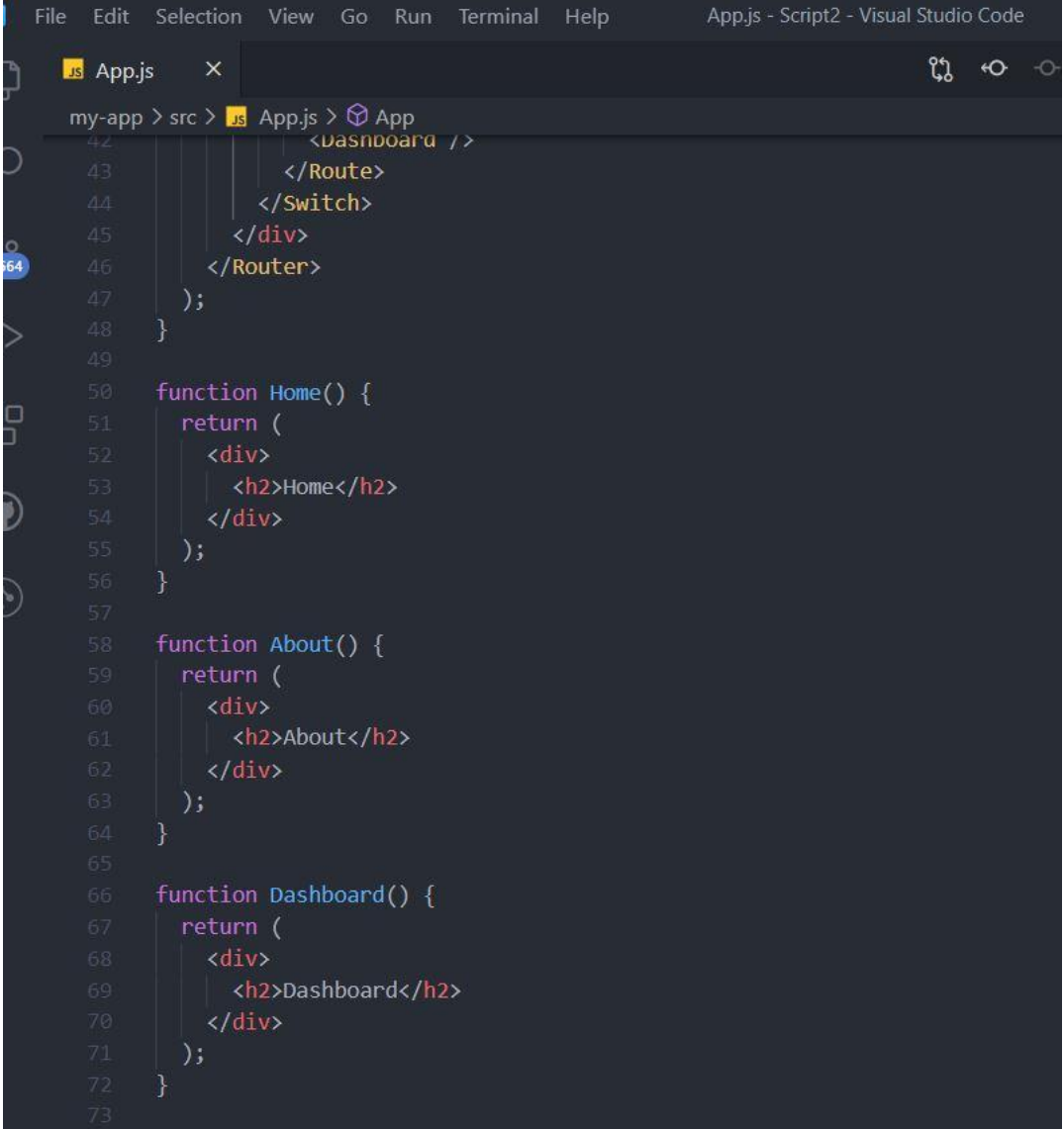
PROGRAM STUDI TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG

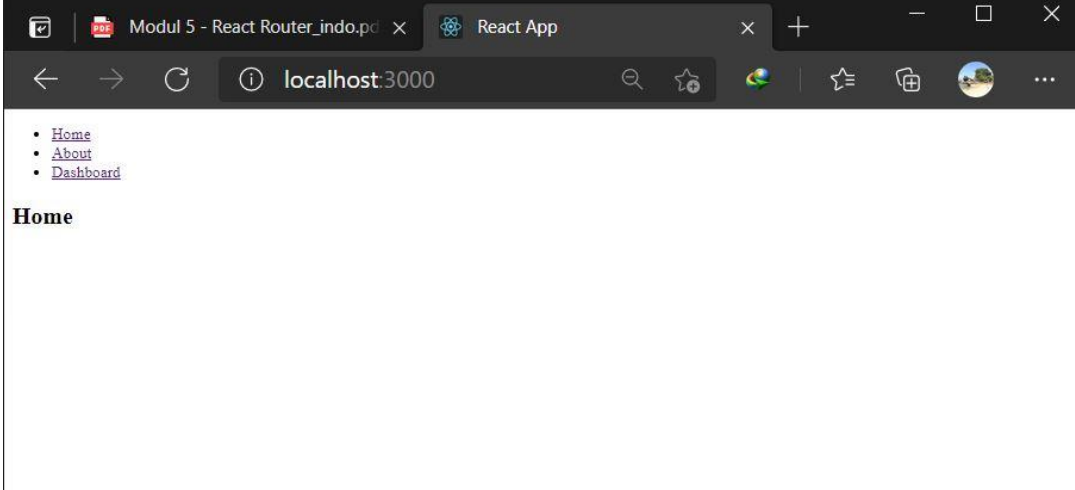
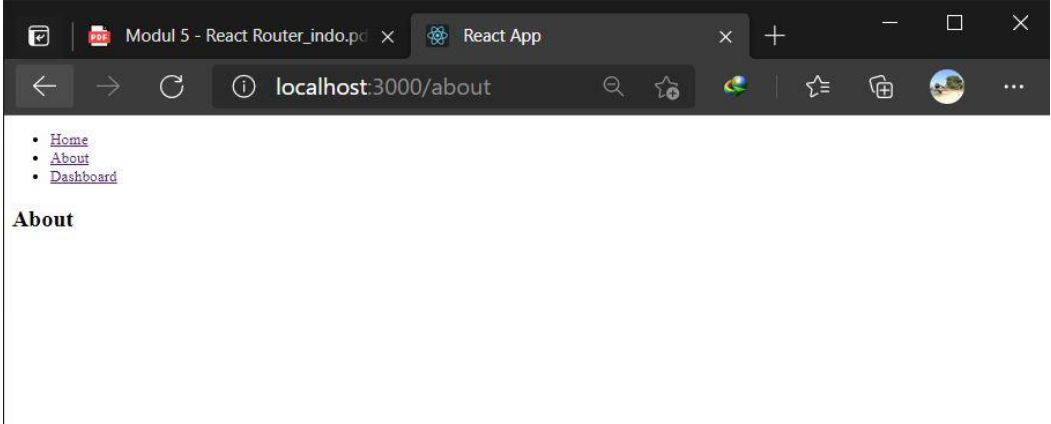
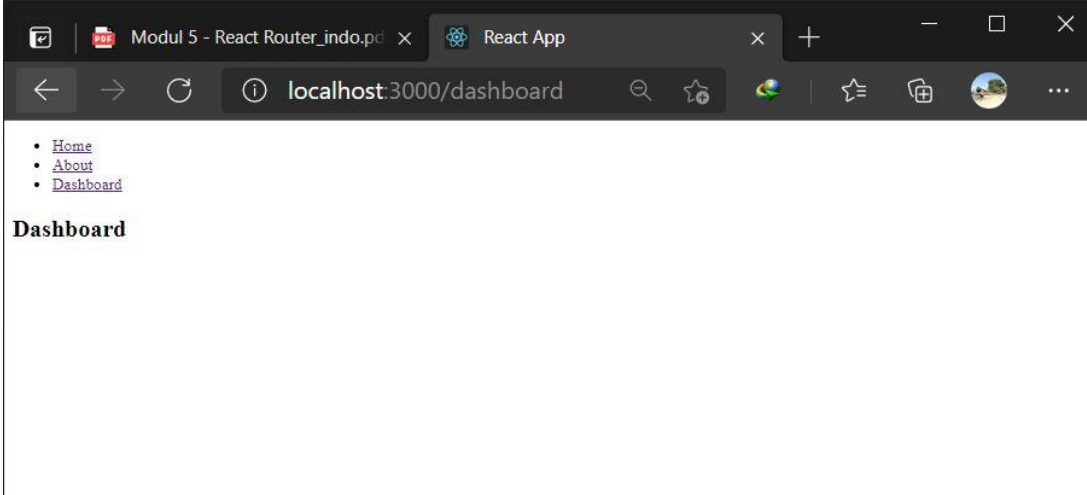
9 Maret 2021

No.	Keterangan
<p>Link Github :</p> <p>Link Youtube :</p>	
	<p>1.1 Langkah Praktikum</p> <p>a. Basic Router</p> <p>1. Setelah kita sukses melakukan instalasi react (npm install), kita perlu menambahkan library react router dengan menambahkan npm install react-router-dom.</p> <p>Jawaban :</p>  <pre> PS D:\TUGAS SEKOLAH BAGUS SATRIA\KULIAH\Semester 6\Pemrograman Framework\Pertemuan 5\Script2> cd node_modules\react PS D:\TUGAS SEKOLAH BAGUS SATRIA\KULIAH\Semester 6\Pemrograman Framework\Pertemuan 5\Script2\node_modules\react> npm install react-router-dom npm notice created a lockfile as package-lock.json. You should commit this file. npm WARN react-router-dom@5.2.0 requires a peer of react@>=15 but none is installed. You must install peer dependencies yourself. npm WARN react-router-dom@5.2.0 requires a peer of react@>=15 but none is installed. You must install peer dependencies yourself. npm WARN mini-create-react-context@0.4.1 requires a peer of react@^0.14.0 ^15.0.0 ^16.0.0 ^17.0.0 but none is installed. You must install peer dependencies yourself. + react-router-dom@5.2.0 added 21 packages from 11 contributors and audited 21 packages in 9.1s found 0 vulnerabilities New major version of npm available! 6.14.0 -> 7.6.1 Changelog: https://github.com/npm/cli/releases/tag/v7.6.1 Run npm install -g npm to update! PS D:\TUGAS SEKOLAH BAGUS SATRIA\KULIAH\Semester 6\Pemrograman Framework\Pertemuan 5\Script2\node_modules\react> </pre>
	<p>2. Kemudian buka app.js pada dan ketikkan code dibawah ini.</p> <p>Jawaban :</p>

```
File Edit Selection View Go Run Terminal Help App.js - Script2 - Visual Studio Code
App.js
my-app > src > App.js > App
10
11 import React from "react";
12 import { BrowserRouter as Router, Switch, Route, Link } from "react-router-dom"
13
14 export default function App() {
15   return (
16     <Router>
17     <div> You, seconds ago • Uncommitted changes
18     <nav>
19       <ul>
20         <li>
21           <Link to="/">Home</Link>
22         </li>
23         <li>
24           <Link to="/about">About</Link>
25         </li>
26         <li>
27           <Link to="/dashboard">Dashboard</Link>
28         </li>
29       </ul>
30     </nav>
31
32     /* A <Switch> looks through its children <Route>s and
33      renders the first one that matches the current URL. */
34     <Switch>
35       <Route exact path="/">
36         <Home />
37       </Route>
38       <Route path="/about">
```

```
App.js
my-app > src > App.js > App
33     renders the first one that matches the current URL. */}
34     <Switch>
35       <Route exact path="/">
36         <Home />
37       </Route>
38       <Route path="/about">
39         <About />
40       </Route>
41       <Route path="/dashboard">
42         <Dashboard />
43       </Route>
44     </Switch>
45   </div>
46 </Router>
47 );
48 }
49
50 function Home() {
51   return (
52     <div>
53       <h2>Home</h2>
54     </div>
55   );
56 }
57
58 function About() {
59   return (
60     <div>
61       <h2>About</h2>
62     </div>
63   );
64 }
```

	 <pre>File Edit Selection View Go Run Terminal Help App.js - Script2 - Visual Studio Code App.js my-app > src > App.js > App 42 <Dashboard /> 43 </Route> 44 </Switch> 45 </div> 46 </Router> 47); 48 } 49 50 function Home() { 51 return (52 <div> 53 <h2>Home</h2> 54 </div> 55); 56 } 57 58 function About() { 59 return (60 <div> 61 <h2>About</h2> 62 </div> 63); 64 } 65 66 function Dashboard() { 67 return (68 <div> 69 <h2>Dashboard</h2> 70 </div> 71); 72 } 73</pre>
	<p>3. Lakukan npm start, lalu cek hasilnya akan seperti dibawah ini</p> <p>Jawaban :</p>

	  
	<p>b. URL Parameters</p> <ol style="list-style-type: none"> 1. Pada percobaan kali ini kita mencoba membuat link react router dengan menggunakan params, sehingga kita hanya membuat satu template yang dapat berubah kontennya sesuai dengan apa yang kita klik. 2. Ketikkan seperti code dibawah ini.

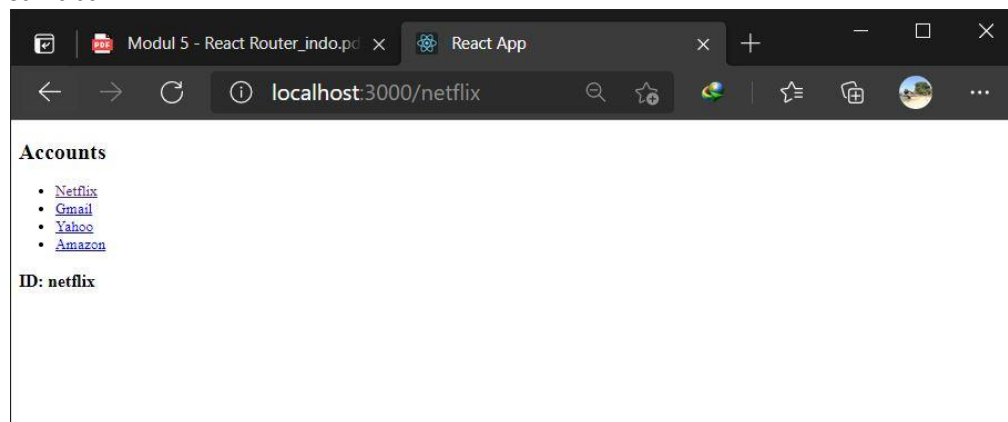
Jawaban :

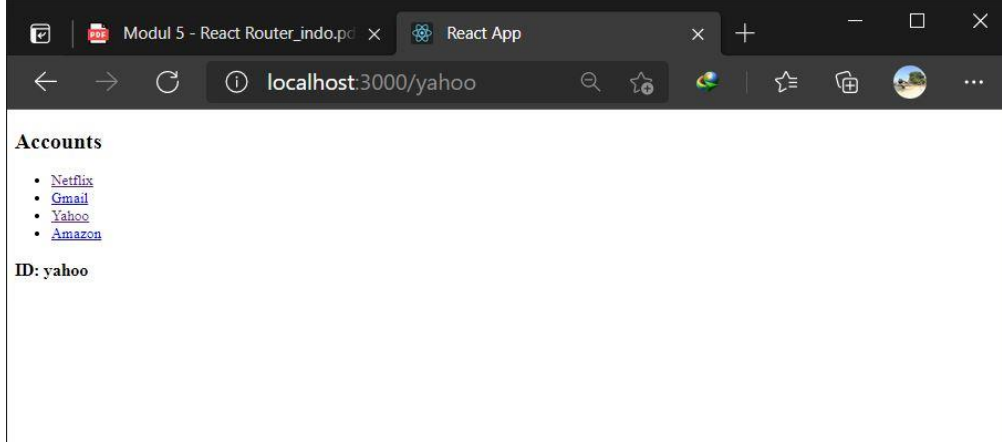
```
File Edit Selection View Go Run Terminal Help App.js - Script2 - Visual Studio Code
App.js
my-app > src > App.js > ...
65 //
66 import React from "react";
67 import {
68   BrowserRouter as Router,
69   Switch,
70   Route,
71   Link,
72   useParams,
73 } from "react-router-dom";
74
75 // Params are placeholders in the URL that begin
76 // with a colon, like the `:id` param defined in
77 // the route in this example. A similar convention
78 // is used for matching dynamic segments in other
79 // popular web frameworks like Rails and Express.
80
81 export default function ParamsExample() {
82   return (
83     <Router>
84       <div>
85         <h2>Accounts</h2>
86
87         <ul>
88           <li>
89             <Link to="/netflix">Netflix</Link>
90           </li>
91           <li>
92             <Link to="/gmail">Gmail</Link>
93           </li>
94           <li>
95             <Link to="/yahoo">Yahoo</Link>
96           </li>
97           <li>
```

```
File Edit Selection View Go Run Terminal Help App.js - Script2 - Visual Studio Code
App.js
my-app > src > App.js > ...
88 </li>
89 <Link to="/netflix">Netflix</Link>
90 </li>
91 <li>
92 <Link to="/gmail">Gmail</Link>
93 </li>
94 <li>
95 <Link to="/yahoo">Yahoo</Link>
96 </li>
97 <li>
98 <Link to="/amazon">Amazon</Link>
99 </li>
100 </ul>
101
102 <Switch>
103 <Route path("/:id" children={<Child /> } />
104 </Switch>
105 </div>
106 </Router>
107 );
108 }
109
110 function Child() {
111 // We can use the `useParams` hook here to access
112 // the dynamic pieces of the URL.
113 let { id } = useParams();
114
115 return (
116 <div>
117 <h3>ID: {id}</h3>
118 </div>
119 );
120 }
```

3. Cek hasilnya maka akan seperti dibawah ini.

Jawaban :





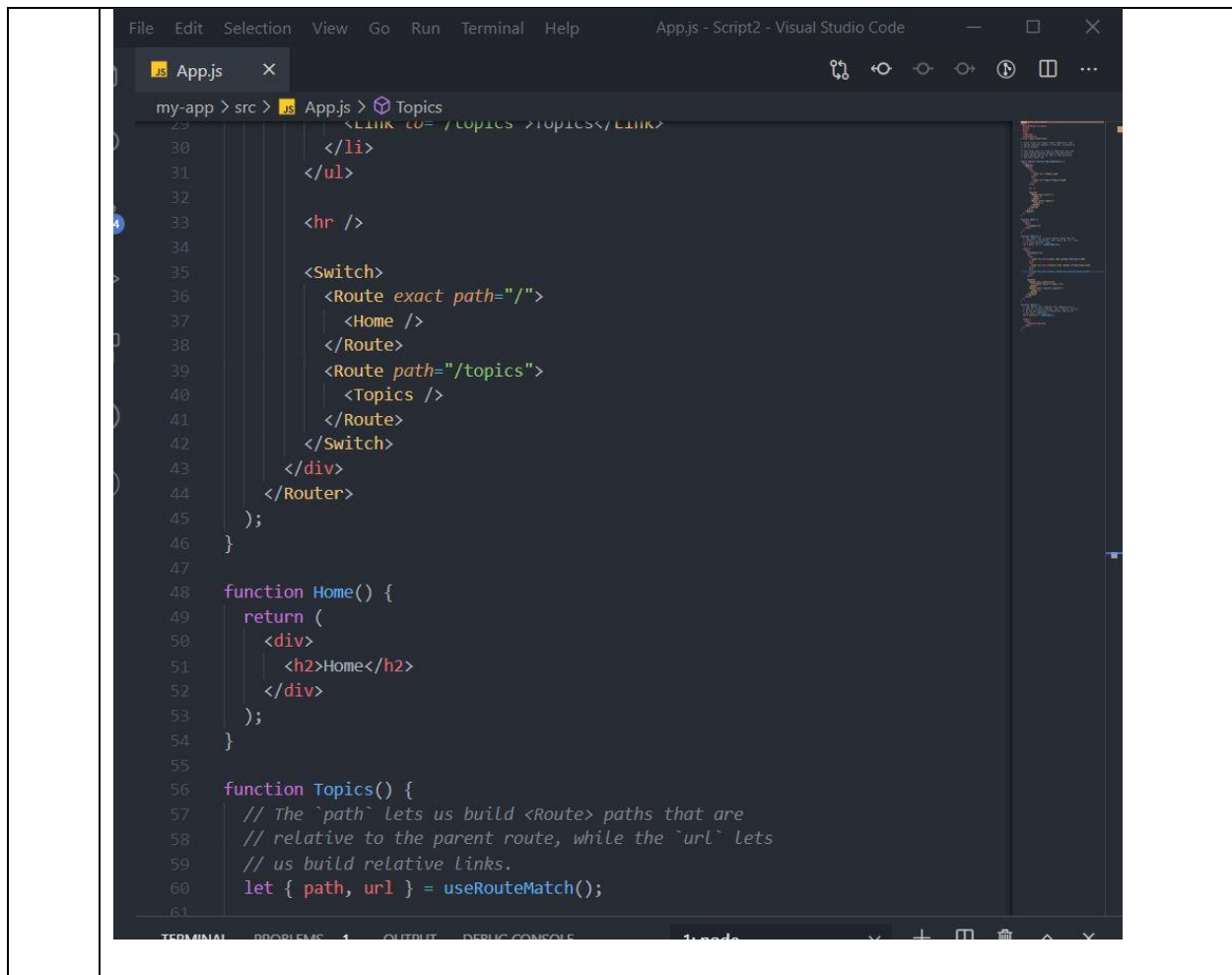
c. Use Nesting Router

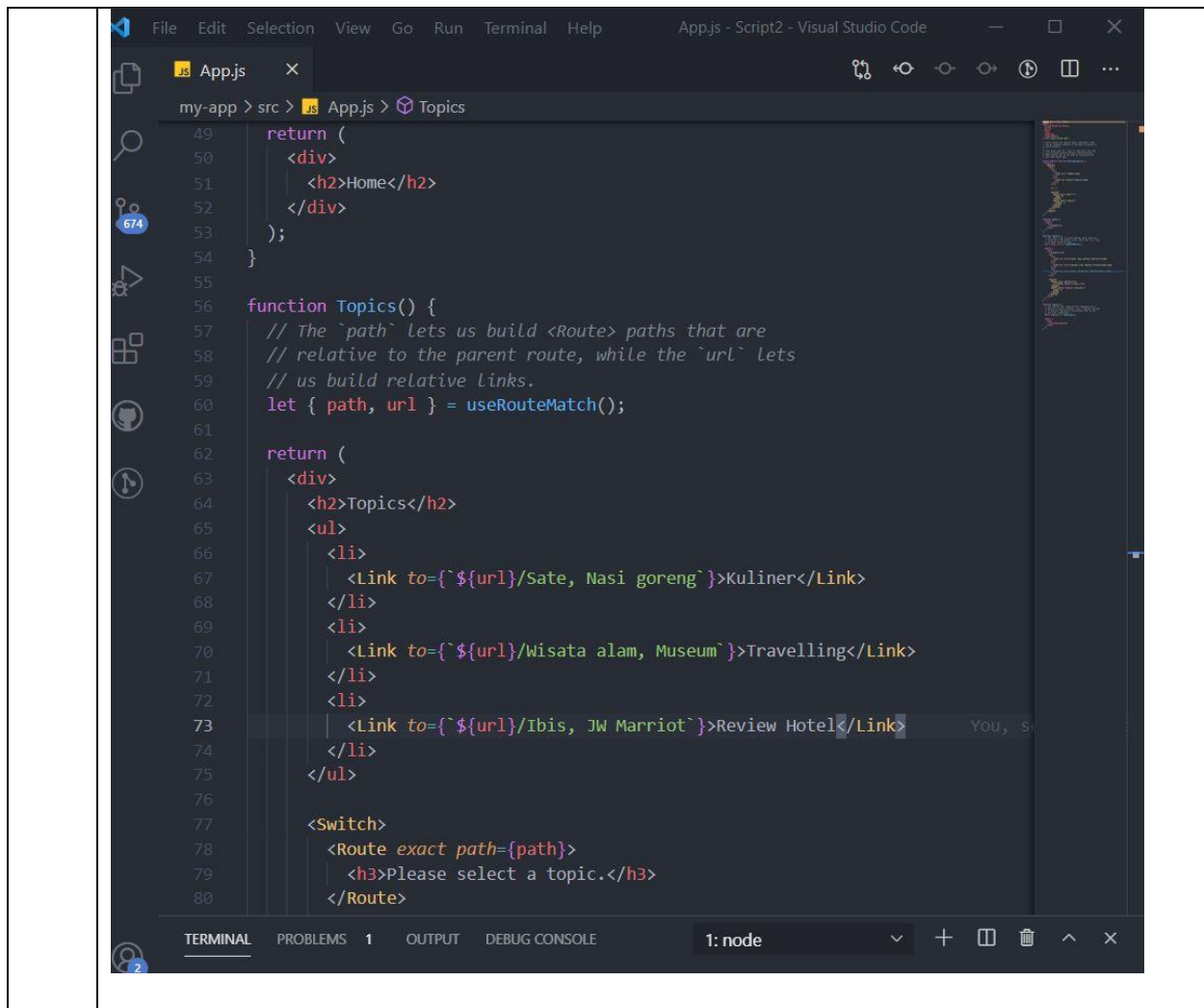
1. Jika kita ingin melakukan percabangan link di dalam react router, maka kita dapat menggunakan cara ini sebagai solusinya.
2. Ketikkan seperti code dibawah ini.

Jawaban ;

```
File Edit Selection View Go Run Terminal Help App.js - Script2 - Visual Studio Code
App.js
my-app > src > App.js > Topics
You, seconds ago | 1 author (You)
1 import React from "react";
2 import {
3   BrowserRouter as Router,
4   Switch,
5   Route,
6   Link,
7   useParams,
8   useRouteMatch,
9 } from "react-router-dom";
10
11 // Since routes are regular React components, they
12 // may be rendered anywhere in the app, including in
13 // child elements.
14 //
15 // This helps when it's time to code-split your app
16 // into multiple bundles because code-splitting a
17 // React Router app is the same as code-splitting
18 // any other React app.
19
20 export default function NestingExample() {
21   return (
22     <Router>
23       <div>
24         <ul>
25           <li>
26             <Link to="/">Home</Link>
27           </li>
28           <li>
29             <Link to="/topics">Topics</Link>
30           </li>
31         </ul>

```

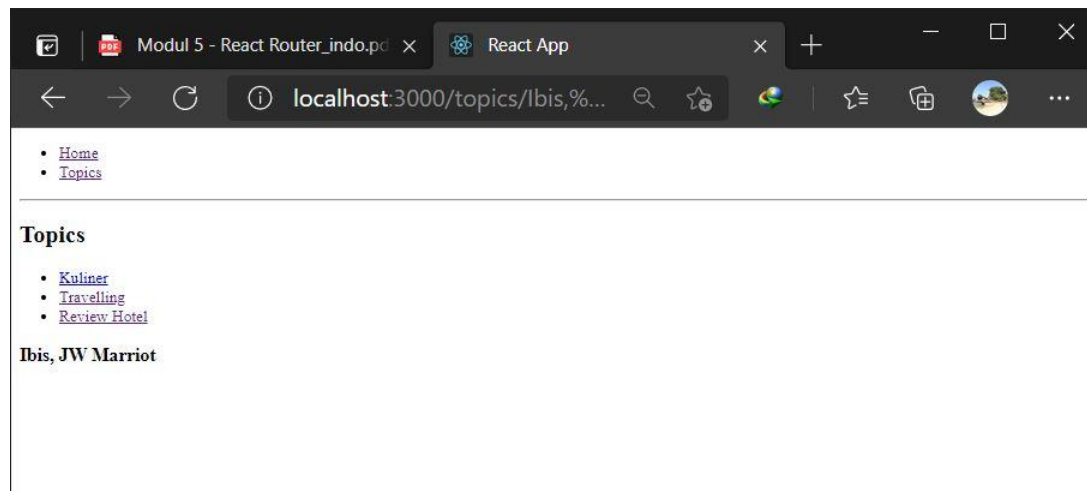


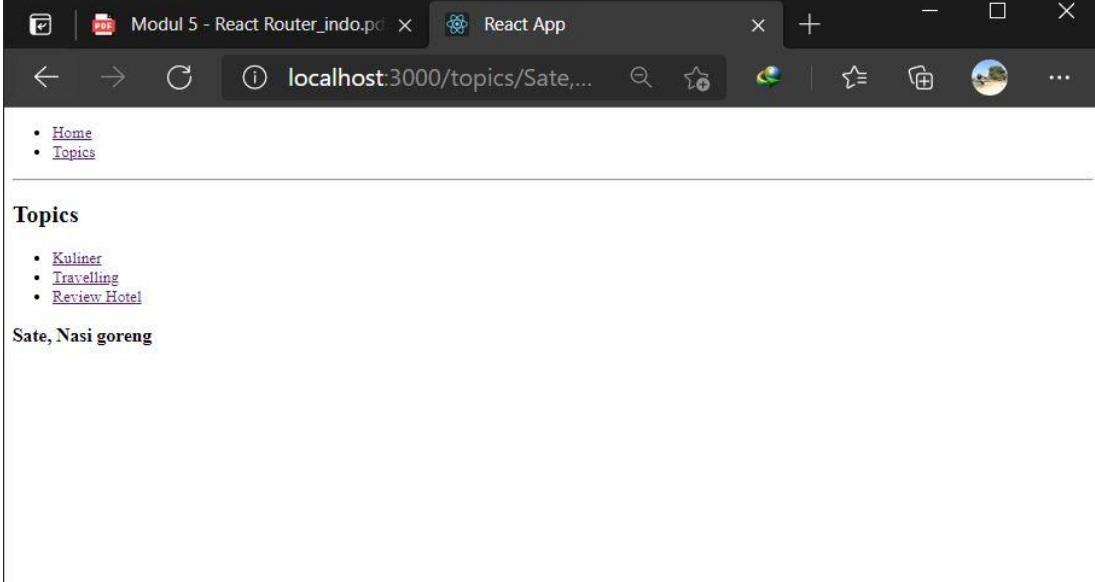


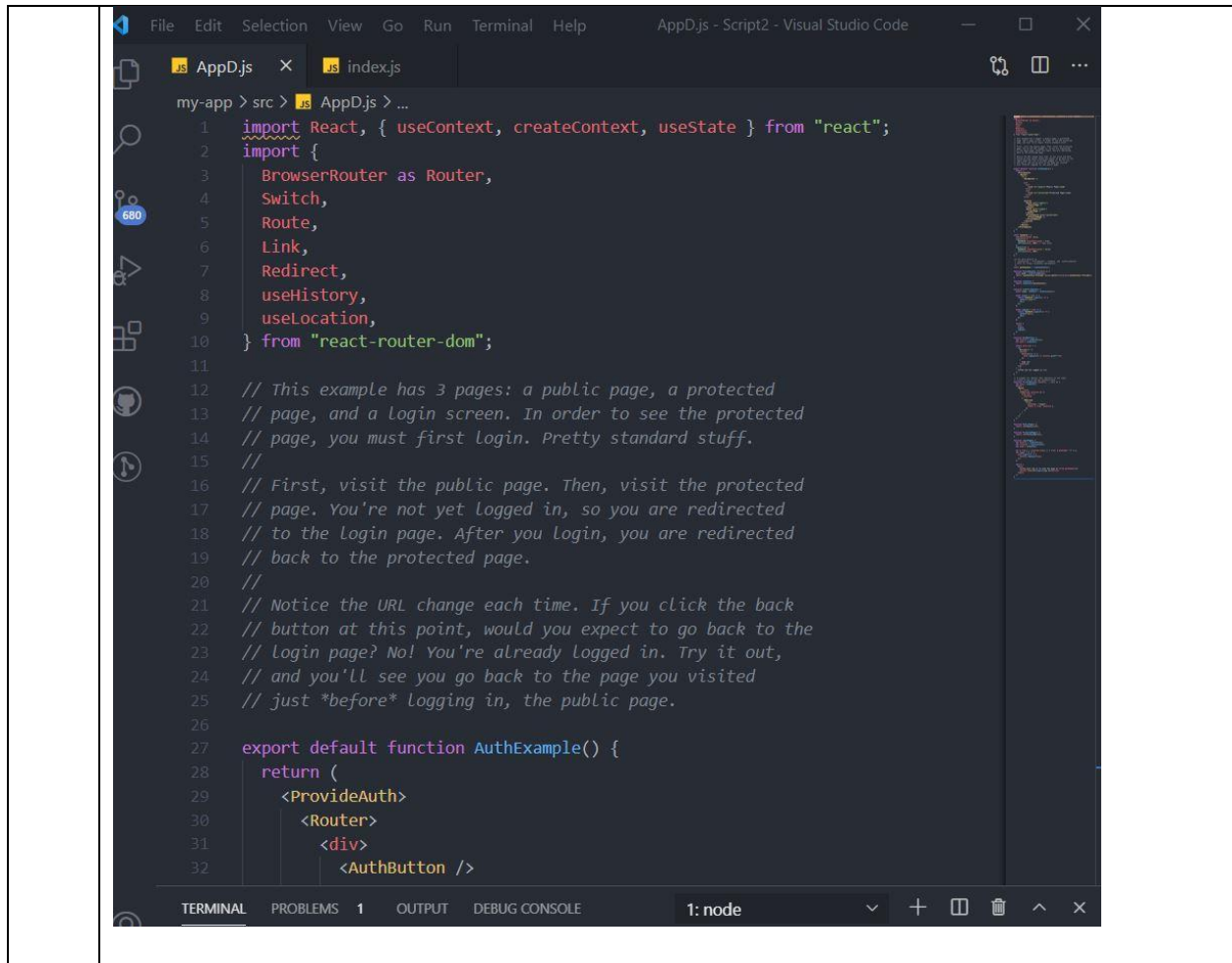
```
File Edit Selection View Go Run Terminal Help App.js - Script2 - Visual Studio Code
App.js
my-app > src > App.js > Topics
75 </ul>
76
77 <Switch>
78 <Route exact path={path}>
79 <h3>Please select a topic.</h3>
80 </Route>
81 <Route path={`/${path}/${topicId}`}>
82 <Topic />
83 </Route>
84 </Switch>
85 </div>
86 );
87 }
88
89 function Topic() {
90 // The <Route> that rendered this component has a
91 // path of `/${path}/${topicId}`. The `/${topicId}` portion
92 // of the URL indicates a placeholder that we can
93 // get from `useParams()`.
94 let { topicId } = useParams();
95
96 return (
97 <div>
98 <h3>{topicId}</h3>
99 </div>
100 );
101 }
102
```

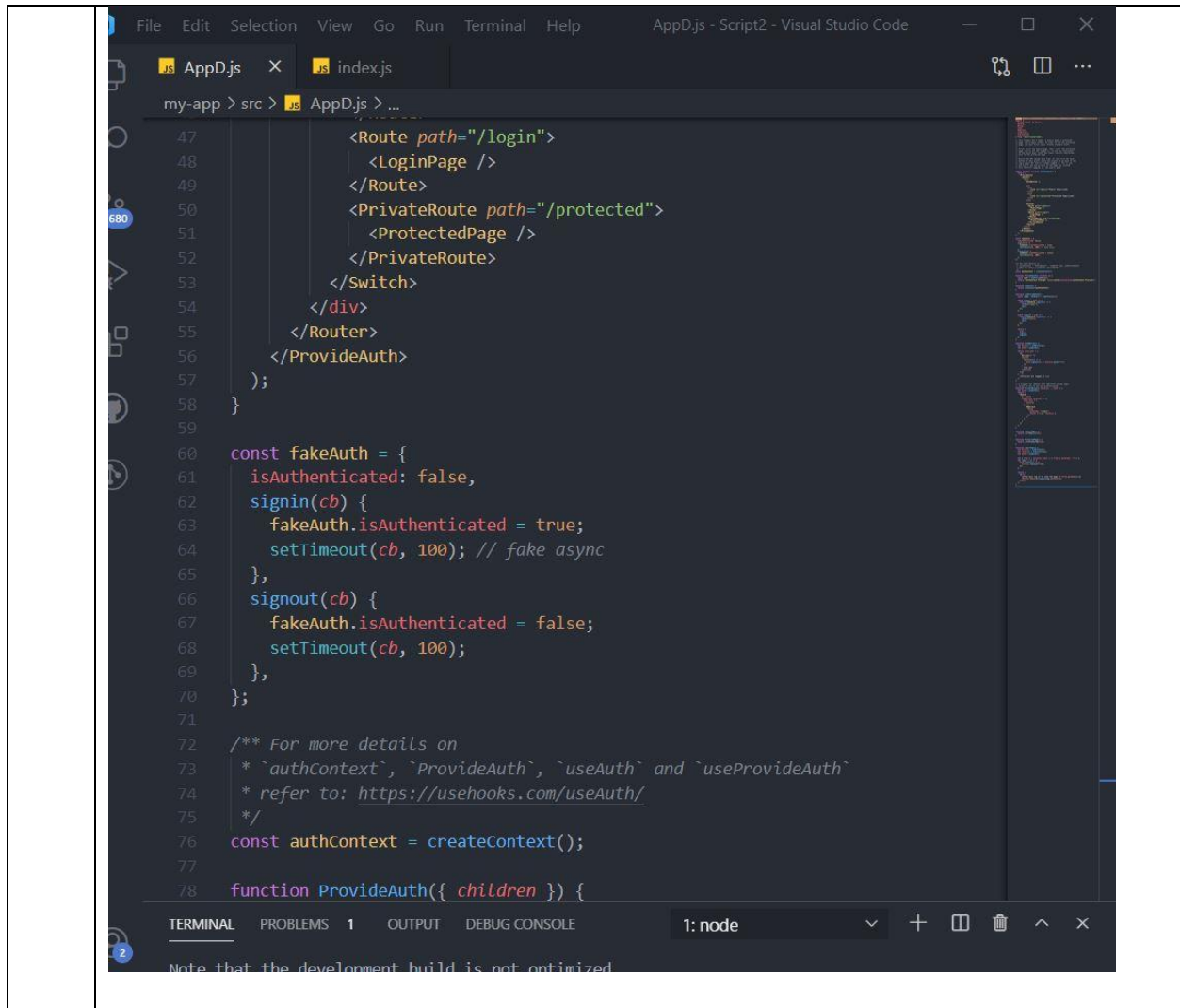
3. Cek hasilnya dan coba klik setiap link nya.

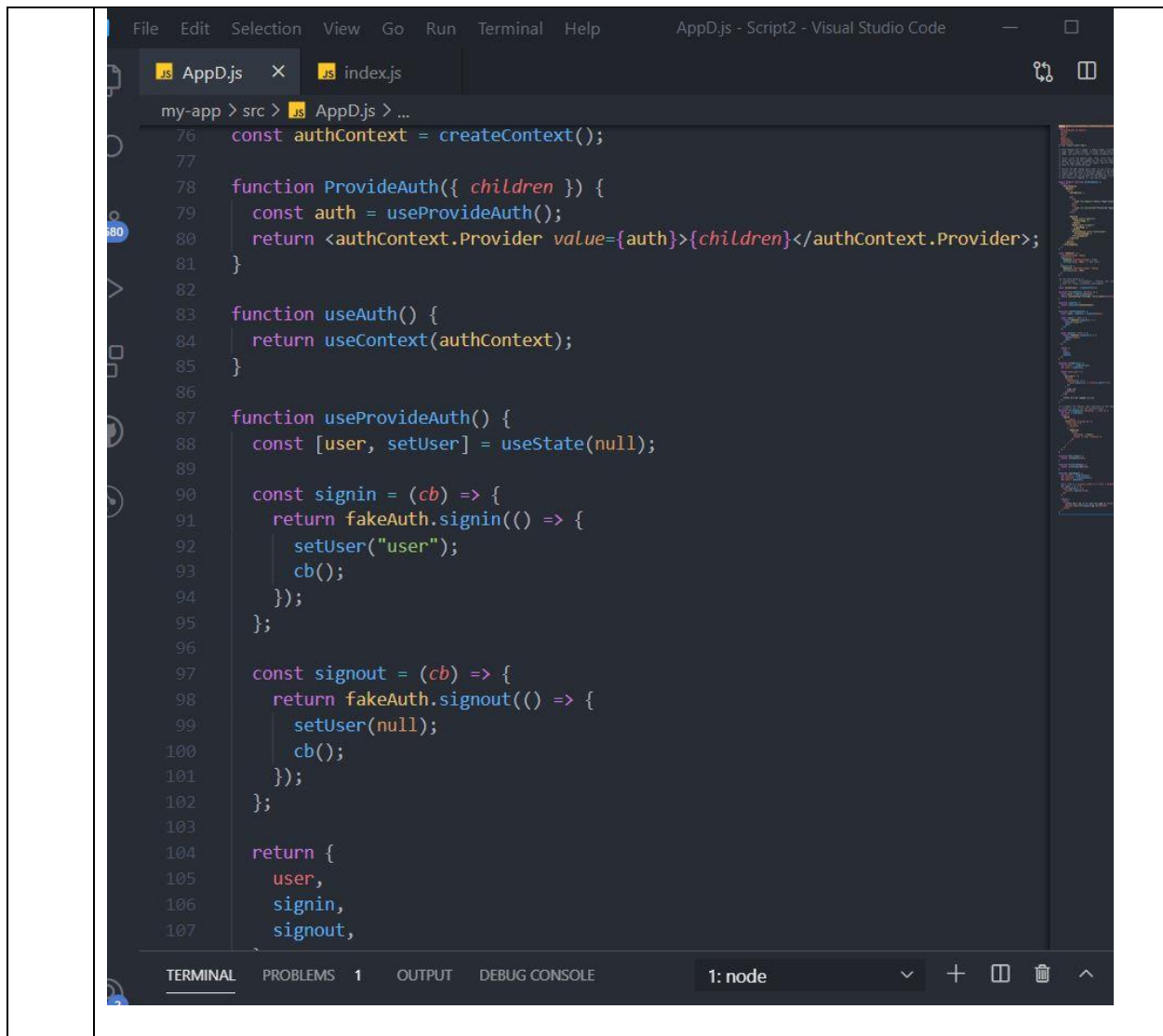
Jawaban :

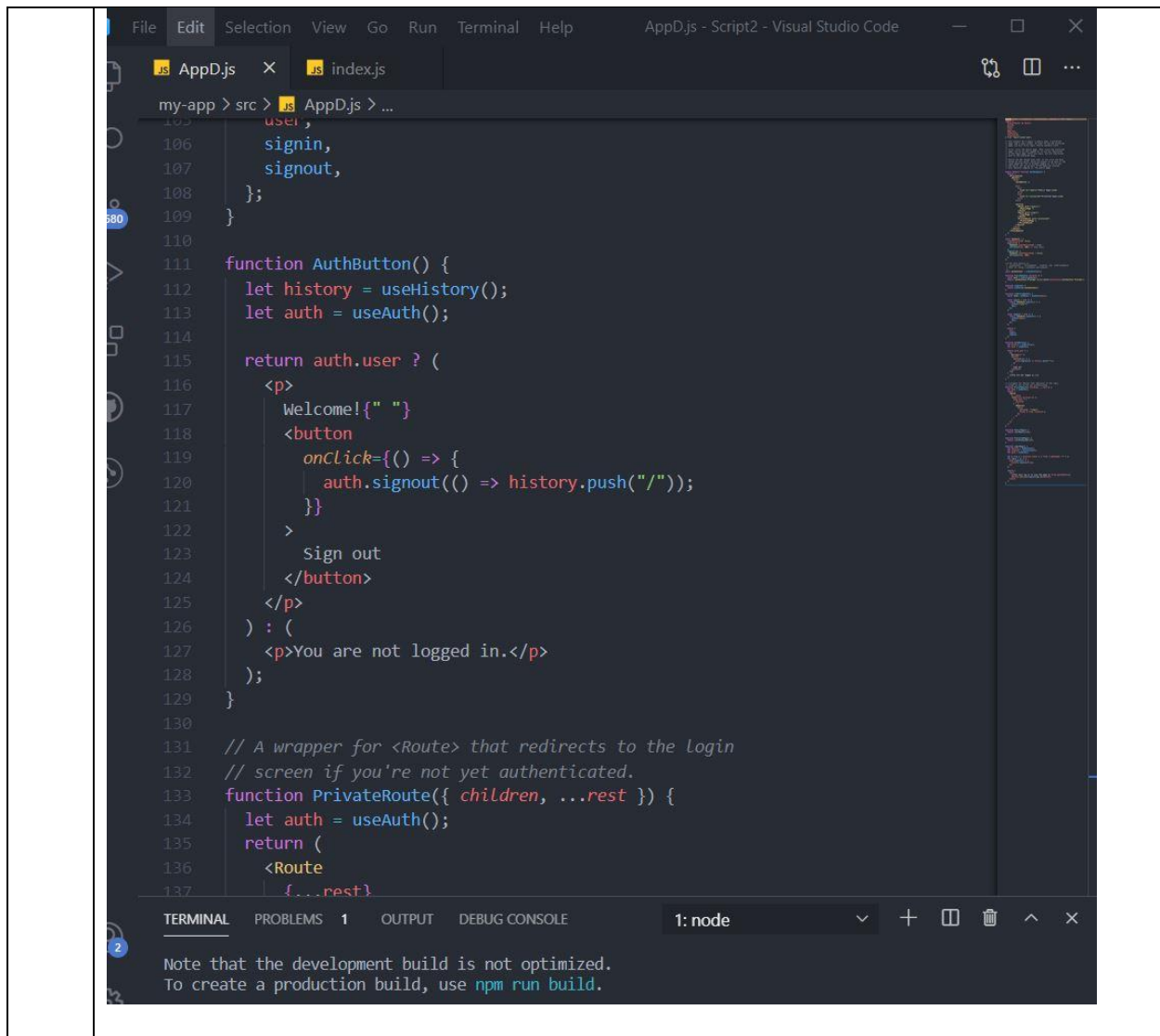


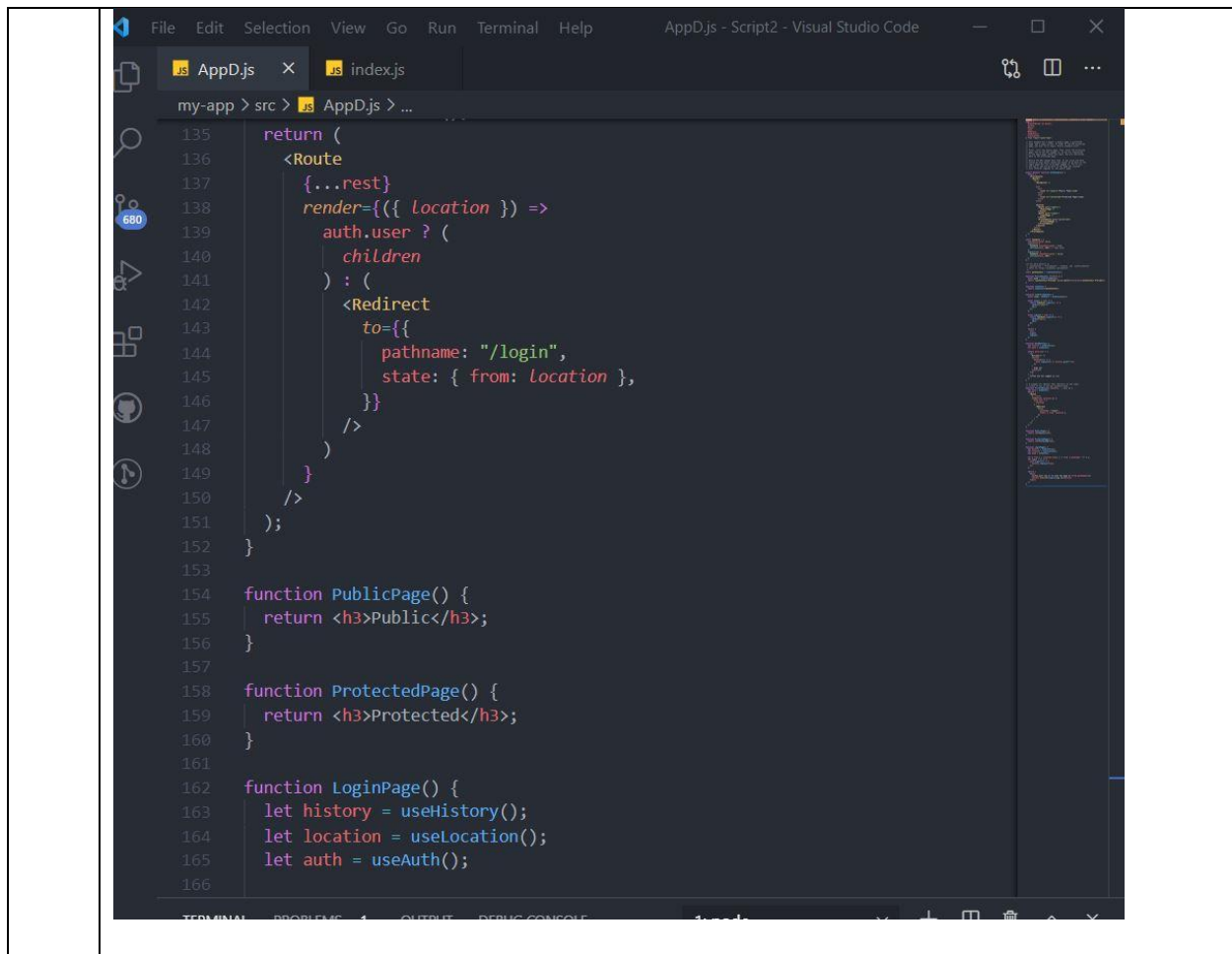
	
	<p>d. Use Redirects (Auth)</p> <ol style="list-style-type: none"> 1. Cara ini dapat anda gunakan untuk masuk ke halaman yang membutuhkan authentication. Setelah masuk dan melakukan klik ke menu lain termasuk masuk ke halaman yang memerlukan authentication, posisi user tidak perlu login ulang (karena posisi sudah logged) sampai user melakukan sign out. 2. Ketikkan seperti code dibawah in. <p>Jawaban :</p>

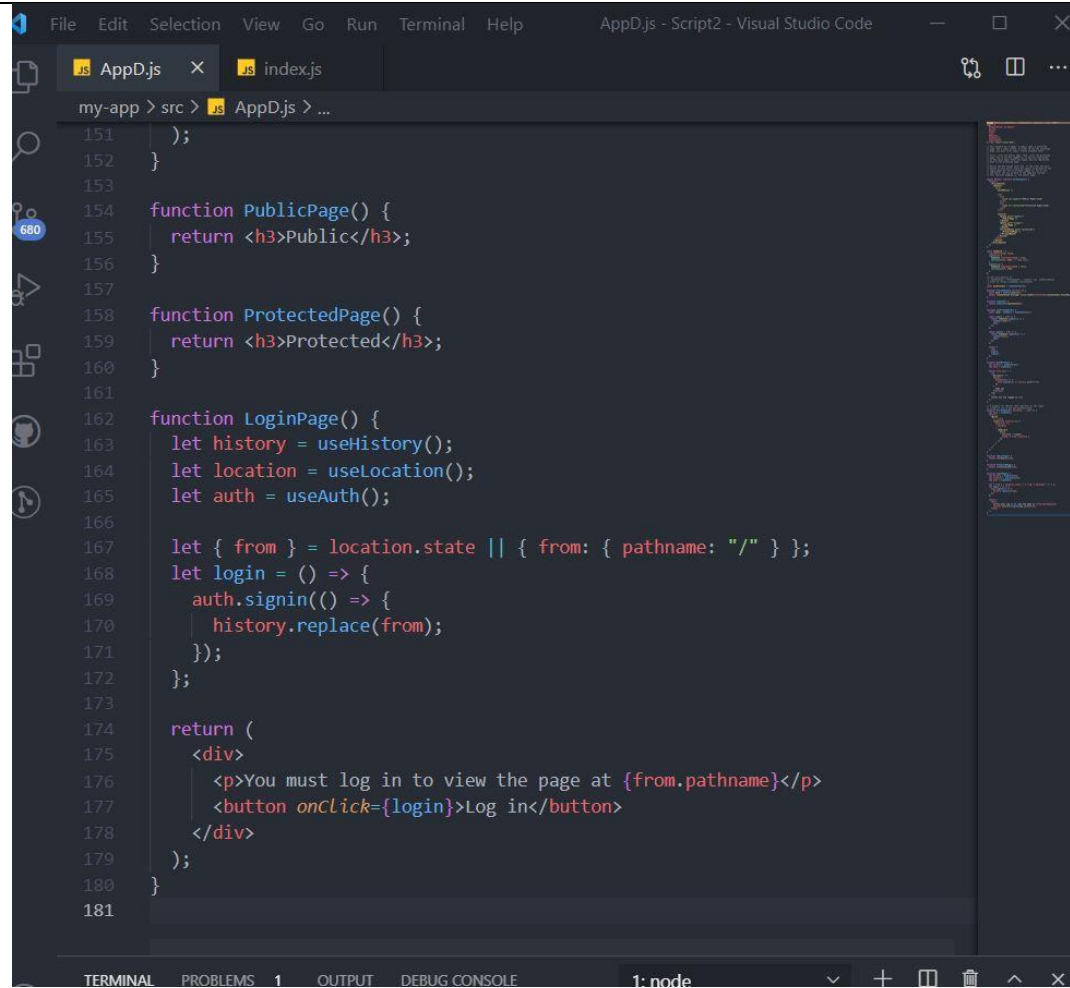








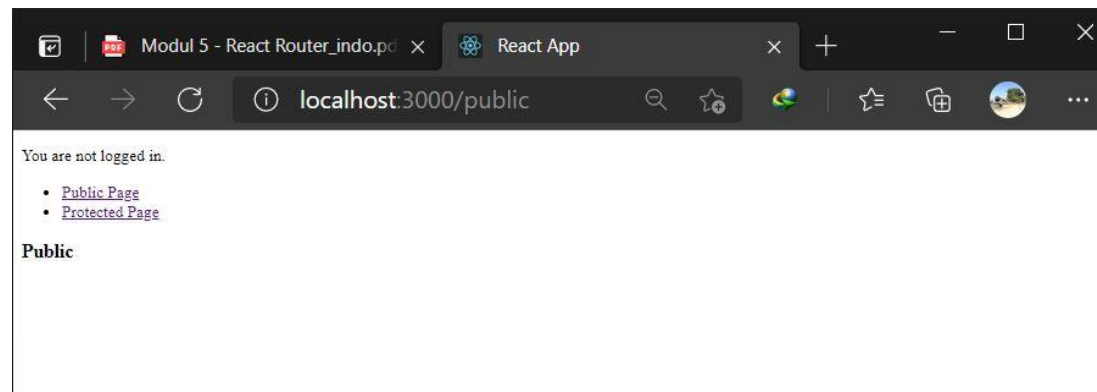


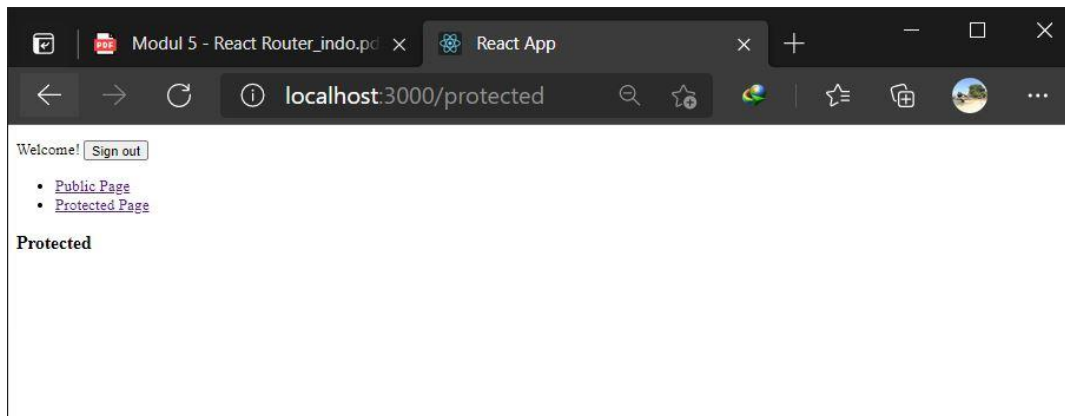
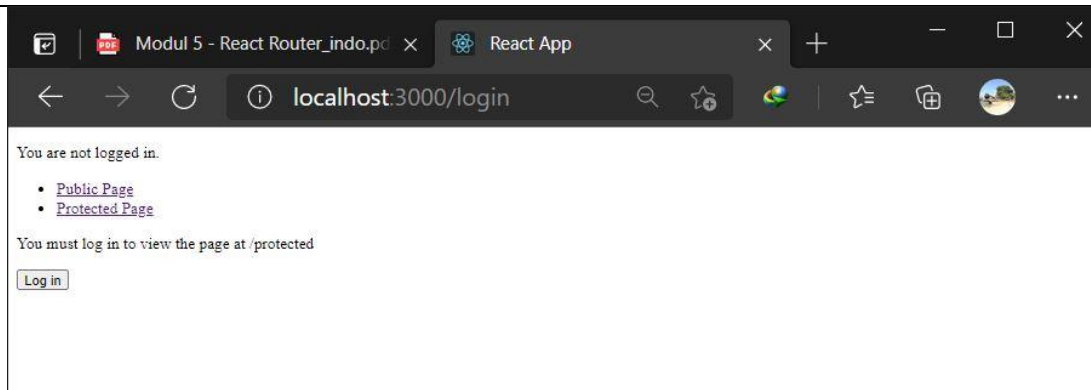


```
151   });
152   }
153
154   function PublicPage() {
155     return <h3>Public</h3>;
156   }
157
158   function ProtectedPage() {
159     return <h3>Protected</h3>;
160   }
161
162   function LoginPage() {
163     let history = useHistory();
164     let location = useLocation();
165     let auth = useAuth();
166
167     let { from } = location.state || { from: { pathname: "/" } };
168     let login = () => {
169       auth.signin(() => {
170         history.replace(from);
171       });
172     };
173
174     return (
175       <div>
176         <p>You must log in to view the page at {from.pathname}</p>
177         <button onClick={login}>Log in</button>
178       </div>
179     );
180   }
181 }
```

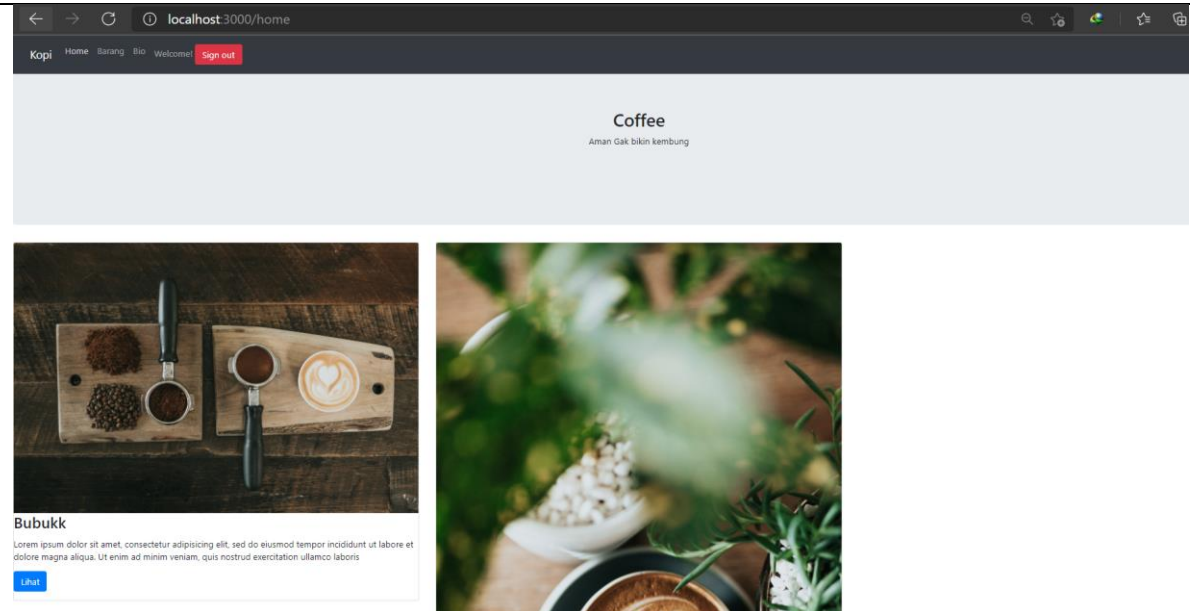
3. Cek hasilnya, ketika klik private page maka diharuskan untuk login terlebih dahulu, ketika sudah masuk dan klik private page kembali kita tidak perlu login kembali karena kita berada dalam posisi logged.

Jawaban :



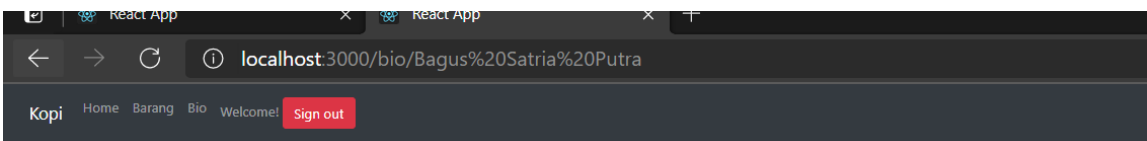


Tugas





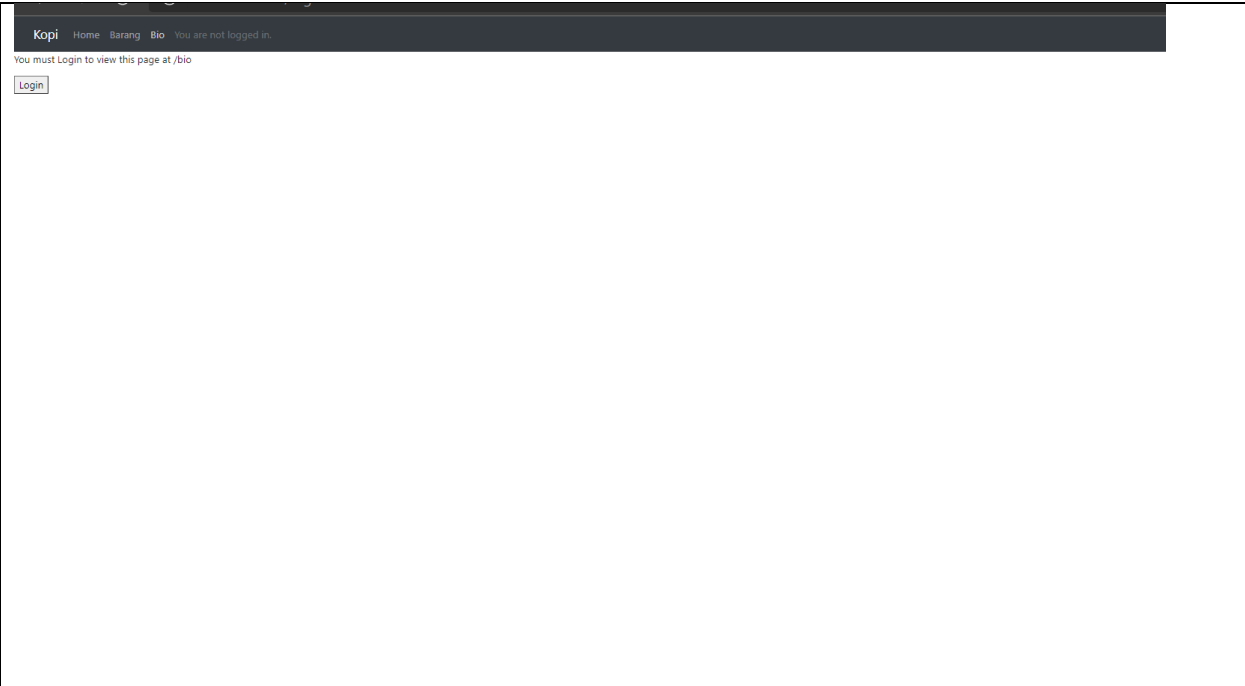
Private



Biodata

- Nama
- NIM
- Kelas, NoAbsen

Bagus Satria Putra



--Alhamdulillah--