

LAPORAN MODUL 10

PEMROGRAMAN BERBASIS FRAMEWORK



Disusun oleh:

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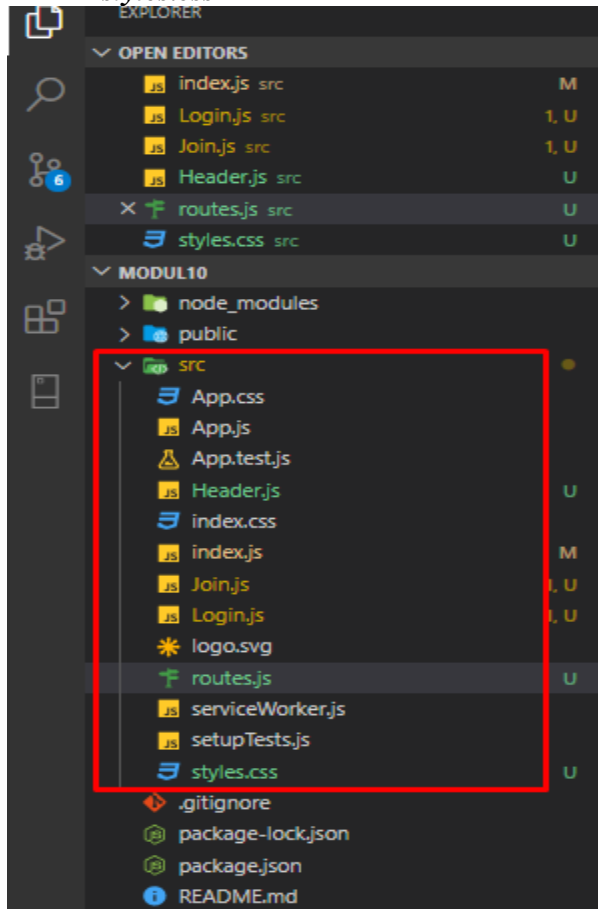
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**PROGRAM STUDI D-VI TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2020**

Praktikum

- pada folder **src** buatlah file dengan nama *index.js* ; *Login.js* ; *Join.js* ; *Header.js* ; *routes.js* ; *styles.css*



- praktikum ini kita menggunakan react router dom, maka lakukan *npm install react-router-dom* dahulu.

```

PS C:\Kuliah Semester6\PBF (Pak Dimas)\Modul10\modul10> npm install react-router-dom
npm WARN tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer 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":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.1.2
added 12 packages from 6 contributors and audited 931453 packages in 145.18s

58 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS C:\Kuliah Semester6\PBF (Pak Dimas)\Modul10\modul10>

```

- index.js

```

src > index.js > App > routes.map() callback
1  import React, { useState } from "react";
2  import ReactDOM from "react-dom";
3  import { Switch, BrowserRouter as Router, Route } from "react-router-dom";
4  import routes from "./routes.js";
5  import Header from "./Header.js";
6  import "./styles.css";
7
8
9
10 function App() {
11   const [isLoggedIn, setLoggedIn] = useState(false);
12
13   return(
14     <AuthContext.Provider value={{ isLoggedIn, setLoggedIn}}>
15       is Logged in? {JSON.stringify(isLoggedIn)}
16       <div className="App">
17         <Router>
18           <Header>
19
20           <Switch>
21             {routes.map(route => (
22               <Route
23                 key={route.path}
24                 path={route.path}
25                 exact={route.exact}
26                 component={route.main}
27               />
28             ))}
29           </Switch>
30         </Router>
31       </div>
32     </AuthContext.Provider>
33   )
34 }
35
36
37 const rootElement = document.getElementById("root");
38 ReactDOM.render(<App />, rootElement);

```

- Login.js

```
src > Login.js > Login
1 import React, { useState, useContext } from "react";
2 import { AuthContext } from "../index";
3
4 const Login = () => {
5   const [email, setEmail] = useState("")
6   const [password, setPassword] = useState("");
7   const [error, setErrors] = useState("");
8
9   const Auth = useContext(AuthContext);
10  const handleFrom = e => {
11    e.preventDefault();
12    console.log(Auth);
13    Auth.setloggedIn(true);
14  };
15
16  return (
17    <div>
18      <h1>Login</h1>
19      <form onSubmit={e => handleFrom(e)}>
20        <input
21          value={email}
22          onChange={e => setEmail(e.target.value)}
23          name="email"
24          type="email"
25          placeholder="email"
26        />
27        <input
28          onChange={e => setPassword(e.target.value)}
29          name="password"
30          value={password}
31          type="password"
32          placeholder="password"
33        />
34        <hr />
35        <button class="googleBtn" type="button">
36          
40          Login With Google
41        </button>
42        <button type="submit">Login</button>
43        <span>{error}</span>
44      </form>
45    </div>
46  );
47
48 export default Login;
```

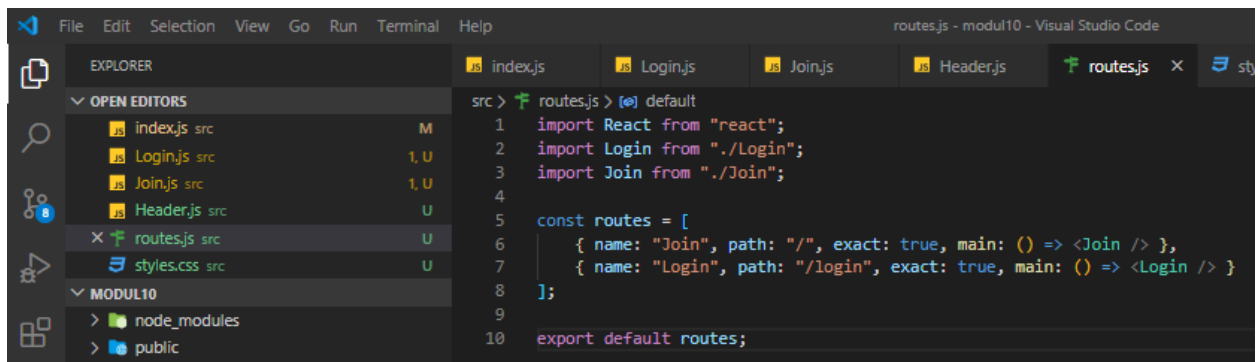
- Join.js

```
1 import React, { useState, useContext } from "react";
2 import { AuthContext } from "../index";
3
4 const Join = () => {
5   const [email, setEmail] = useState("");
6   const [password, setPassword] = useState("");
7   const [error, setErrors] = useState("");
8
9   const Auth = useContext(AuthContext);
10   const handleFrom = e => {
11     e.preventDefault();
12     console.log(Auth);
13     Auth.setLoggedIn(true);
14   };
15
16   return (
17     <div>
18       <h1>Login</h1>
19       <form onSubmit={e => handleFrom(e)}>
20         <input
21           value={email}
22           onChange={e => setEmail(e.target.value)}
23           name="email"
24           type="email"
25           placeholder="email"
26         />
27         <input
28           onChange={e => setPassword(e.target.value)}
29           name="password"
30           value={password}
31           type="password"
32           placeholder="password"
33         />
34       <hr />
35       <button class="googleBtn" type="button">
36         
40         Login With Google
41       </button>
42       <button type="submit">Login</button>
43       <span>{error}</span>
44     </form>
45   </div>
46 );
47
48 export default Join;
```

- Header.js

```
1 import React from "react";
2 import routes from "../routes";
3 import { Link } from "react-router-dom";
4
5 const Header = () => (
6   <ul className="nav">
7     {routes.map((route, i) => (
8       <li key={i}>
9         <Link to={route.path}>{route.name}</Link>
10       </li>
11     ))}
12   </ul>
13 );
14
15 export default Header;
```

- routes.js



The screenshot shows the Visual Studio Code interface with the 'routes.js' file open in the editor. The Explorer sidebar on the left shows the project structure with 'MODUL10' expanded, containing 'node_modules' and 'public'. The Open Editors sidebar shows 'index.js', 'Login.js', 'Join.js', 'Header.js', 'routes.js', and 'style.css'. The editor window displays the following code:

```
src > routes.js > [0] default
1  import React from "react";
2  import Login from "../Login";
3  import Join from "../Join";
4
5  const routes = [
6    { name: "Join", path: "/", exact: true, main: () => <Join /> },
7    { name: "Login", path: "/login", exact: true, main: () => <Login /> }
8  ];
9
10 export default routes;
```

- style.css

Visual Studio Code interface showing the Explorer, Open Editors, and Editor views. The Explorer view shows the project structure with files like index.js, Login.js, Join.js, Header.js, routes.js, App.css, App.js, App.test.js, Header.js, index.css, index.js, Join.js, Login.js, logo.svg, routes.js, serviceWorker.js, setupTests.js, styles.css, .gitignore, package-lock.json, package.json, and README.md. The Open Editors view shows the files open in the editor. The Editor view shows the content of styles.css, which includes CSS rules for .App, h1, form, input, and button.

```
src > styles.css > .googleBtn img
1
2 .App {
3   font-family: sans-serif;
4   padding: 50px;
5 }
6
7 h1 {
8   margin: 0 0 25px 0;
9   text-align: left;
10 }
11
12 form {
13   display: flex;
14   flex-direction: column;
15 }
16
17 input {
18   max-width: 450px;
19   width: auto;
20   border: none;
21   margin: 0 0 25px 0;
22   box-shadow: 0 1px 3px rgba(0, 0, 0, 0.12), 0 1px 2px rgba(0, 0, 0, 0.24);
23   transition: all 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
24   padding: 10px;
25 }
26
27 button {
28   width: 125px;
29   box-shadow: 0 1px 3px rgba(0, 0, 0, 0.12), 0 1px 2px rgba(0, 0, 0, 0.24);
30   border: none;
31   padding: 7px;
32   text-align: center;
33   cursor: pointer;
34 }
```

Visual Studio Code interface showing the Explorer, Open Editors, and Editor views. The Explorer view shows the project structure with files like index.js, Login.js, Join.js, Header.js, routes.js, App.css, App.js, App.test.js, Header.js, index.css, index.js, Join.js, Login.js, logo.svg, routes.js, serviceWorker.js, setupTests.js, styles.css, .gitignore, package-lock.json, package.json, and README.md. The Open Editors view shows the files open in the editor. The Editor view shows the content of styles.css, which includes CSS rules for button[type="submit"], .googleBtn, .googleBtn img, .nav, and .nav li.

```
src > styles.css > .googleBtn img
34
35 button[type="submit"] {
36   background-color: #4c566a;
37   color: white;
38   font-size: 14px;
39   font-weight: 900;
40   border-radius: 5px;
41   text-transform: uppercase;
42   padding: 15px;
43 }
44
45 .googleBtn {
46   width: 225px;
47   margin: 0 0 50px 0;
48   display: flex;
49   justify-content: center;
50   font-size: 16px;
51 }
52
53 .googleBtn img {
54   width: 16px;
55   height: 16px;
56   padding: 0;
57   margin: 0 5px;
58   vertical-align: middle;
59 }
60
61 .nav {
62   display: flex;
63   text-decoration: none;
64   list-style-type: none;
65   justify-content: flex-start;
66   margin: 0 0 50px 0;
67   padding: 0;
68 }
69
70 .nav li {
71   margin: 0 10px;
72 }
```

- buat project baru

×

Buat project(Langkah 1 dari 3)

Mari kita mulai dengan nama
project Anda[Ⓢ]

Nama project

modul10

modul10-a9c83

Lanjutkan

×

Buat project(Langkah 2 dari 3)

Messaging, Remote Config, Pengujian A/B, Prediction, dan Cloud Functions.

Google Analytics memungkinkan:

🔍

Pengujian A/B[Ⓢ]

⚙️

Pengguna bebas error[Ⓢ]

👤

Segmentasi & penargetan pengguna pada produk Firebase[Ⓢ]

🔔

Pemicu Cloud Functions berbasis peristiwa[Ⓢ]

📊

Memprediksi perilaku pengguna[Ⓢ]

📈

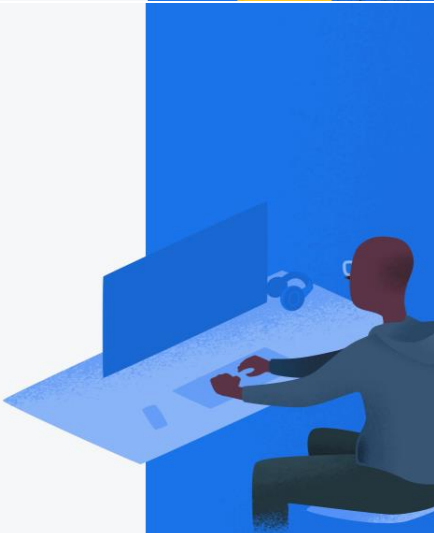
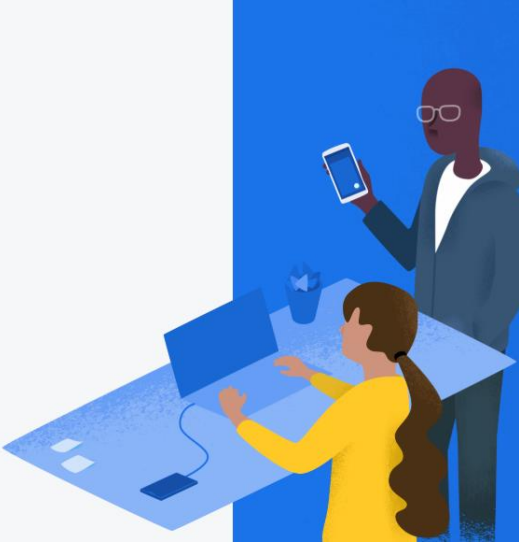
Pelaporan gratis dan tanpa batas[Ⓢ]

Aktifkan Google Analytics untuk project ini

Direkomendasikan


Sebelumnya


Lanjutkan




× Buat project(Langkah 3 dari 3)

Konfigurasi Google Analytics

Pilih atau buat akun Google Analytics 

 Default Account for Firebase

Secara otomatis membuat properti baru di akun ini 


Setelah project dibuat, properti Google Analytics baru akan dibuat dalam akun Google Analytics yang Anda pilih dan terhubung dengan project Firebase Anda. Link ini akan mengaktifkan aliran data antarproduk. Data yang diekspor dari properti Google Analytics Anda ke Firebase tunduk pada persyaratan layanan Firebase, sedangkan data Firebase yang diimpor ke Google Analytics tunduk pada persyaratan layanan Google Analytics. [Pelajari lebih lanjut](#)

[Sebelumnya](#)

Buat project



modul10

 Project baru Anda sudah siap

Lanjutkan

- perintah `npm install --save firebase` di directory project react

```
PS C:\Kuliah Semester6\PBF (Pak Dimas)\Modul10\modul10> npm install --save firebase

> core-js@3.6.4 postinstall C:\Kuliah Semester6\PBF (Pak Dimas)\Modul10\modul10\node_modules\@firebase\polyfill\node_modules\core-js
> node -e "try(require('./postinstall'))catch(e){}"

Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock

Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job -)

> protobufjs@6.8.9 postinstall C:\Kuliah Semester6\PBF (Pak Dimas)\Modul10\modul10\node_modules\protobufjs
> node scripts/postinstall

npm WARN rollback Rolling back readable-stream@2.3.7 failed (this is probably harmless): EPERM: operation not permitted, scandir 'C:\Kuliah Semester6\PBF (Pak Di
mas)\Modul10\modul10\node_modules\watchpack\node_modules\fsevents\node_modules'
npm WARN tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.6.0-beta ||
>= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer 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":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
)
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
)

+ firebase@7.14.0
added 56 packages from 54 contributors and audited 931637 packages in 994.215s

59 packages are looking for funding
  run `npm fund` for details
```

- Salin code

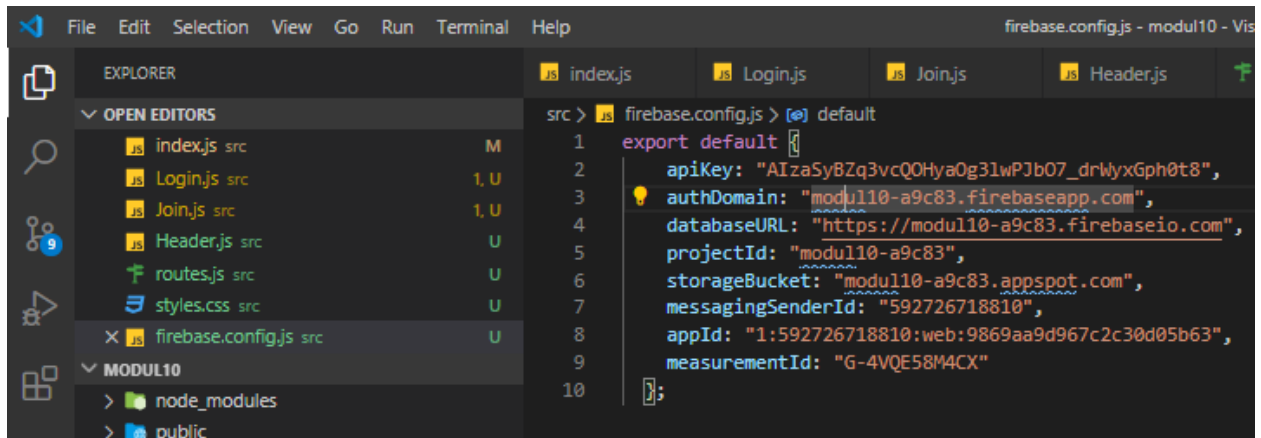


```
<script>
  // Your web app's Firebase configuration
  var firebaseConfig = {
    apiKey: "AIzaSyBZq3vcQ0Hya0g3lwPJb07_drWyxGph0t8",
    authDomain: "modul10-a9c83.firebaseio.com",
    databaseURL: "https://modul10-a9c83.firebaseio.com",
    projectId: "modul10-a9c83",
    storageBucket: "modul10-a9c83.appspot.com",
    messagingSenderId: "592726718810",
    appId: "1:592726718810:web:9869aa9d967c2c30d05b63",
    measurementId: "G-4VQE58M4CX"
  };
  // Initialize Firebase
  firebase.initializeApp(firebaseConfig);
  firebase.analytics();
</script>
```

Pelajari Firebase untuk web lebih lanjut: [Mulai](#), [Referensi Web SDK API](#), [Sampel](#)

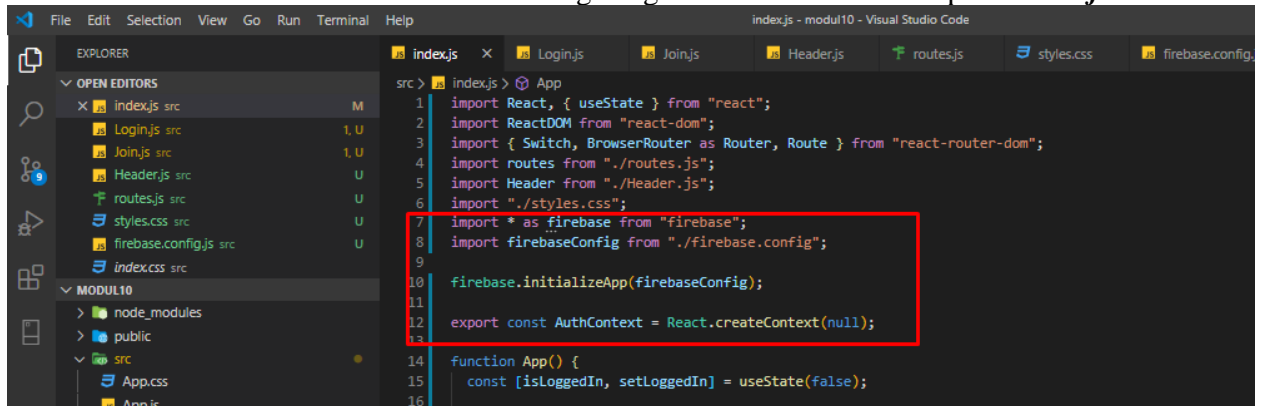
Lanjutkan ke konsol

- `firebase.config.js`



```
export default {
  apiKey: "AIzaSyBZq3vcQ0Hya0g3lwPJb07_drWyx6ph0t8",
  authDomain: "modul10-a9c83.firebaseio.com",
  databaseURL: "https://modul10-a9c83.firebaseio.com",
  projectId: "modul10-a9c83",
  storageBucket: "modul10-a9c83.appspot.com",
  messagingSenderId: "592726718810",
  appId: "1:592726718810:web:9869aa9d967c2c30d05b63",
  measurementId: "G-4VQE58M4CX"
};
```

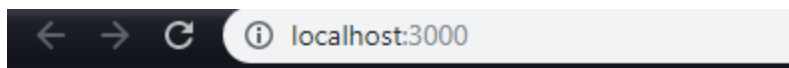
- Lalu lakukan inisialisasi firebase config dengan menambahkan code pada `index.js`



```
import React, { useState } from "react";
import ReactDOM from "react-dom";
import { Switch, BrowserRouter as Router, Route } from "react-router-dom";
import routes from "./routes.js";
import Header from "./Header.js";
import "./styles.css";
import * as firebase from "firebase";
import firebaseConfig from "./firebase.config";
firebase.initializeApp(firebaseConfig);
export const AuthContext = React.createContext(null);

function App() {
  const [isLoggedIn, setLoggedIn] = useState(false);
```

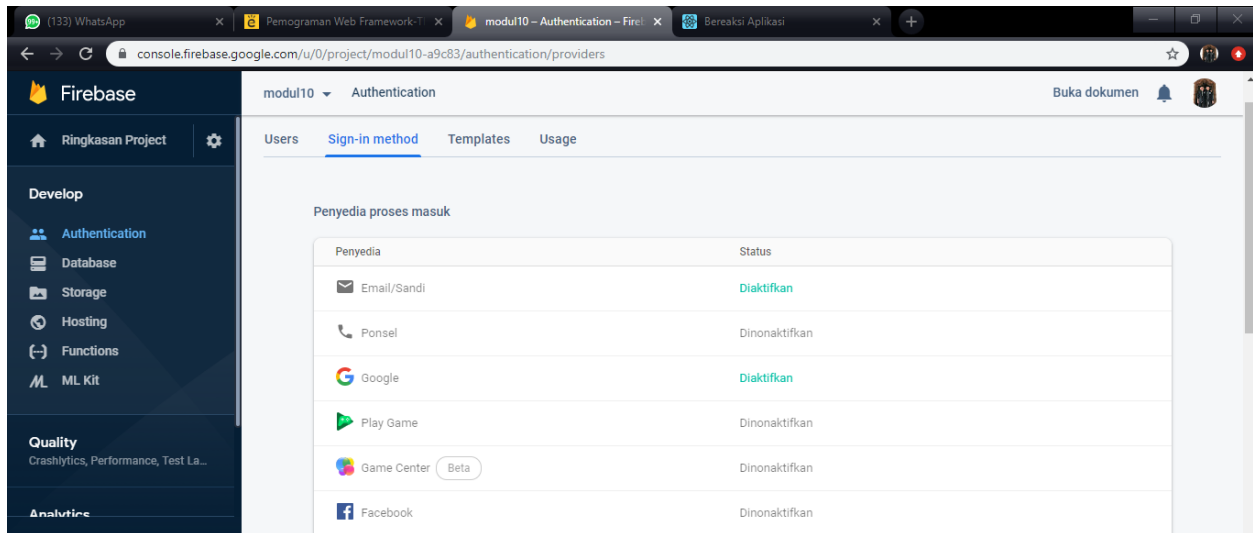
Hasil



Apakah sudah masuk? Salah

[Ikuti](#) [Gabung](#)

- aktifkan terlebih dahulu authentication email dan google pada firebase console



- coba pada aplikasi dengan klik join, lalu isikan email dan password. Coba cek pada firebase maka user

