

LAPORAN MINGGU 11

Disusun sebagai

MATA KULIAH: PEMGROGRAMAN BERBASIS FRAMEWORK

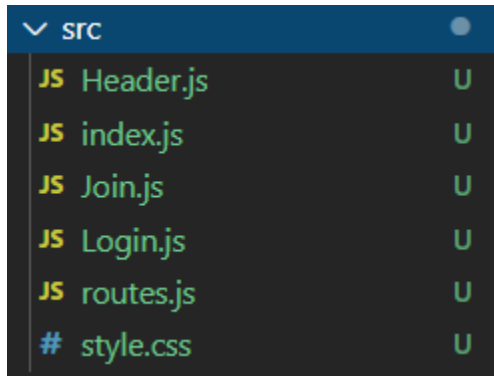
Oleh:

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TI – 3B / 14



PROGRAM STUDI: D-IV TEKNIK INFORMATIKA
JURUSAN: TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2020

1. Buatlah file dengan nama index.js ; Login.js ; Join.js ; Header.js ; routes.js ; styles.cs pada folder src



2. Kemudian install react router dom dengan perintah “**npm install react-router-dom**”

```
PS D:\Tugas\Semester 6\Framework\Tugas_Firmanda_Kusuma_Pratama_1741720012_PBF\Firmanda-mingguli> npm install react-router-dom
npm WARN eslint-config-react-app@5.2.0 requires a peer of eslint-plugin-flowtype@3.x but none is installed. You must install peer dependencies yourself.
npm WARN react-scripts@3.4.0 requires a peer of typescript@3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install 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 || >= 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@1.2.11 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\webpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.1.2
added 12 packages from 6 contributors and audited 918520 packages in 35.41s
found 890 vulnerabilities (872 low, 18 moderate)
run 'npm audit fix' to fix them, or 'npm audit' for details
```

3. Isikan code pada index.js

```
src > JS index.js > App
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 "./route.js";
5  import Header from "./Header";
6  import "./style.css";
7
8  export const AuthContext = React.createContext(null);
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 const rootElement = document.getElementById("root");
37 ReactDOM.render(<App />, rootElement);
```

4. Isikan code pada Login.js

```
src > JS Login.js > [0] 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 handleForm = 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) => handleForm(e)}>
20         <input
21           value={email}
22           onChange={(e) => setEmail(e.target.value)}
23           name="email"
24           type="email"
25           placeholder="email"
26         />
27
28         <input
29           onChange={(e) => setPassword(e.target.value)}
30           name="password"
31           value={password}
32           type="password"
33           placeholder="password"
34         />
35       <hr />
36       <button class="googleBtn" type="button">
37         

```

```
41       Login With Google
42     </button>
43     <button type="submit">Login</button>
44     <span>{error}</span>
45   </form>
46 </div>
47 );
48 };
49
50 export default Login;
```

5. Isikan code pada Join.js

```
src > JS Join.js > [0] Join
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 handleForm = (e) => {
11     e.preventDefault();
12     Auth.setLoggedIn(true);
13   };
14
15   return (
16     <div>
17       <h1>Join</h1>
18       <form onSubmit={e => handleForm(e)}>
19         <input
20           value={email}
21           onChange={(e) => setEmail(e.target.value)}
22           name="email"
23           type="email"
24           placeholder="email"
25         />
26         <input
27           onChange={(e) => setPassword(e.target.value)}
28           name="password"
29           value={password}
30           type="password"
31           placeholder="password"
32         />
33         <hr />
34         <button class="googleBtn" type="button">
35           
39           Join With Google
40         </button>

```

```
42     <button type="submit">Login</button>
43   |
44   | <span>{error}</span>
45   | </form>
46   | </div>
47   | </>;
48   };
49
50   export default Join;
```

6. Isikan code pada Header.js

```
src > JS Header.js > [0] default
1  import React from "react";
2  import routes from "../route";
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;
```

7. Isikan code pada routes.js

```
src > JS 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;
```

8. Isikan code pada style.css

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

```
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 }
```


9. Buka <https://console.firebase.google.com/> kemudian kita buat new project



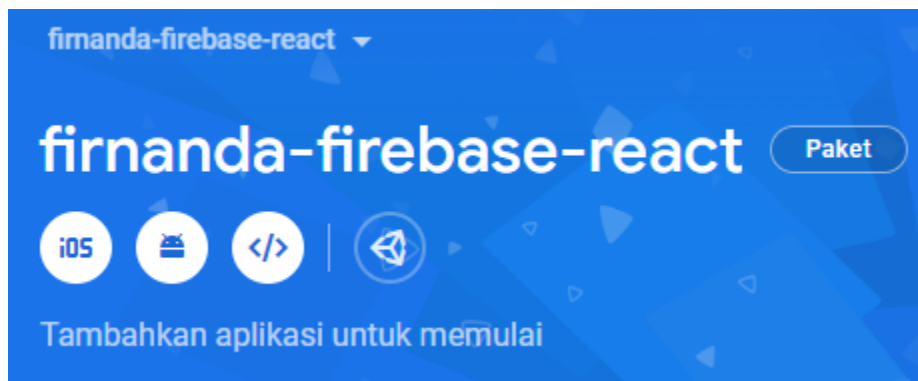
10. Kemudian kita install firebase pada project react menggunakan perintah “**npm install --save firebase**”

```
PS D:\Tugas\Semester 6\Framework\Tugas_Firnanda_Kusuma_Prataa_1741728812_PBF\Firnanda-minggu1> npm install --save firebase
> protobufjs@6.8.9 postinstall D:\Tugas\Semester 6\Framework\Tugas_Firnanda_Kusuma_Prataa_1741728812_PBF\Firnanda-minggu1\node_modules\protobufjs
> node scripts/postinstall

npm WARN eslint-config-react-app@5.2.0 requires a peer of eslint-plugin-flowtype@3.x but none is installed. You must install peer dependencies yourself.
npm WARN react-scripts@3.4.0 requires a peer of typescript@3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install 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 || >= 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@1.2.11 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.11 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.11: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ firebase@7.14.0
added 67 packages from 55 contributors and audited 918704 packages in 112.902s
found 890 vulnerabilities (872 low, 18 moderate)
run 'npm audit fix' to fix them, or 'npm audit' for details
```

11. Klik tanda </>



12. Kemudian copy firebase configuration

```
<!-- The core Firebase JS SDK is always required and must be listed
<script src="https://www.gstatic.com/firebasejs/7.14.0/firebase-app.

<!-- TODO: Add SDKs for Firebase products that you want to use
      https://firebase.google.com/docs/web/setup#available-libraries
<script src="https://www.gstatic.com/firebasejs/7.14.0/firebase-anal

<script>
  // Your web app's Firebase configuration
  var firebaseConfig = {
    apiKey: "AIzaSyAwMxDIexupyPx1JJWx6xHtXEjDg2xMqRo",
    authDomain: "firnanda-firebase-react-6bed2.firebaseio.com",
    databaseURL: "https://firnanda-firebase-react-6bed2.firebaseio.com",
    projectId: "firnanda-firebase-react-6bed2",
    storageBucket: "firnanda-firebase-react-6bed2.appspot.com",
    messagingSenderId: "365415768451",
    appId: "1:365415768451:web:fad14c3eabfeb9e57556b6",
    measurementId: "G-V0TQWC1E5P"
  };
  // Initialize Firebase
  firebase.initializeApp(firebaseConfig);
  firebase.analytics();
</script>
```

13. Buat file baru pada folder src dengan nama firebase.config.js dan paste code yang telah kita copy pada firebase configuration

```
src > JS firebase.config.js > ...
1  var firebaseConfig = {
2      apiKey: "AIzaSyAwMxDIexupyPx1JJWx6xHtXEjDg2xMqRo",
3      authDomain: "firnanda-firebase-react-6bed2.firebaseio.com",
4      databaseURL: "https://firnanda-firebase-react-6bed2.firebaseio.com",
5      projectId: "firnanda-firebase-react-6bed2",
6      storageBucket: "firnanda-firebase-react-6bed2.appspot.com",
7      messagingSenderId: "365415768451",
8      appId: "1:365415768451:web:fad14c3eabfeb9e57556b6",
9      measurementId: "G-V0TQWC1E5P"
10 };
```

14. Menambahkan code pada file index.js

```
src > JS index.js > ...
7  import * as firebase from "firebase";
8  import firebaseConfig from "../firebase.config";
9
10 firebase.initializeApp(firebaseConfig);
```

15. Hasil

React App x firmanda-firebase-react - Setting x +

localhost:3000


Is logged in? false

[Join](#) [Login](#)

Join

email

password

 Join With Google

LOGIN

16. Mengaktifkan authentication Email/Password dan Google

The screenshot shows the Firebase Authentication console for the project 'fimanda-firebase-react'. The 'Sign-in method' tab is selected, displaying a list of providers and their status. The 'Email/Sandi' and 'Google' providers are highlighted with red boxes and marked as 'Diaktifkan' (Activated). The other providers are marked as 'Dinonaktifkan' (Deactivated).

Penyedia	Status
Email/Sandi	Diaktifkan
Ponsel	Dinonaktifkan
Google	Diaktifkan
Play Game	Dinonaktifkan
Game Center (Beta)	Dinonaktifkan
Facebook	Dinonaktifkan
Twitter	Dinonaktifkan
GitHub	Dinonaktifkan
Yahoo	Dinonaktifkan
Microsoft	Dinonaktifkan
Apple	Dinonaktifkan
Anonim	Dinonaktifkan

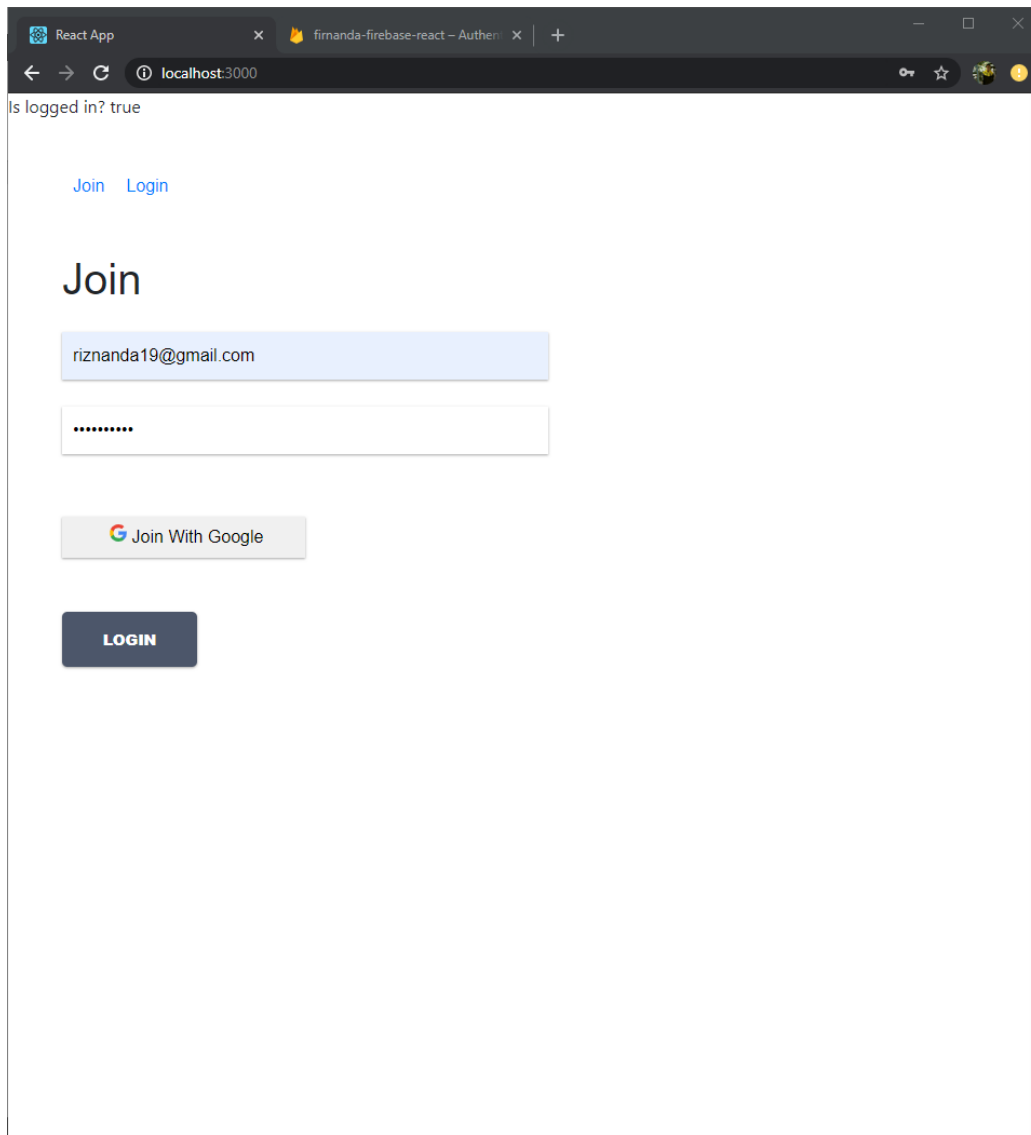
Domain yang diotorisasi ⓘ


Menambahkan domain

17. Edit file Join.js seperti dibawah ini

```
src > JS Join.js > [⌕] Join > [⌕] handleForm
3  import * as firebase from "firebase";
4
5  const Join = () => {
6    const [email, setEmail] = useState("");
7    const [password, setPassword] = useState("");
8    const [error, setErrors] = useState("");
9
10   const Auth = useContext(AuthContext);
11   const handleForm = (e) => {
12     e.preventDefault();
13     firebase
14       .auth()
15       .createUserWithEmailAndPassword(email, password)
16       .then((res) => {
17         if (res.user) Auth.setLoggedIn(true);
18       })
19       .catch((e) => {
20         setErrors(e.message);
21       });
22   };
```

18. Hasil join



Telusuri berdasarkan alamat email, nomor telepon, atau UID pengguna					Tambahkan pengguna		
Pengenal	Penyedia	Dibuat tanggal	Masuk	UID pengguna ↑			
riznanda19@gmail.com		15 Apr 2020	15 Apr 2020	ucoBzTD06VTK9IrRvQc042J78j32			
Baris per halaman: 50					1-1 dari 1	<	>

19. Edit code pada file Login.js

```
src > JS Login.js > [?] Login
1  import { AuthContext } from "../index";
2
3  import * as firebase from "firebase";
4
5  const Login = () => {
6    const [email, setEmail] = useState("");
7    const [password, setPassword] = useState("");
8    const [error, setErrors] = useState("");
9    const Auth = useContext(AuthContext);
10   const handleForm = (e) => {
11     e.preventDefault();
12     firebase
13       .auth()
14       .signInWithEmailAndPassword(email, password)
15       .then((res) => {
16         if (res.user) Auth.setLoggedIn(true);
17         console.log(Auth);
18       })
19       .catch((e) => {
20         setErrors(e.message);
21       });
22   };
23
```


20. Hasil sebelum kita klik login

React App x finanda-firebase-react - Authen x +

localhost:3000/login


Is logged in? false

[Join](#) [Login](#)

Login

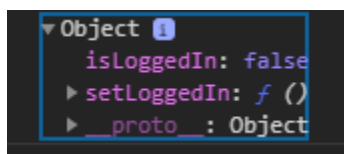
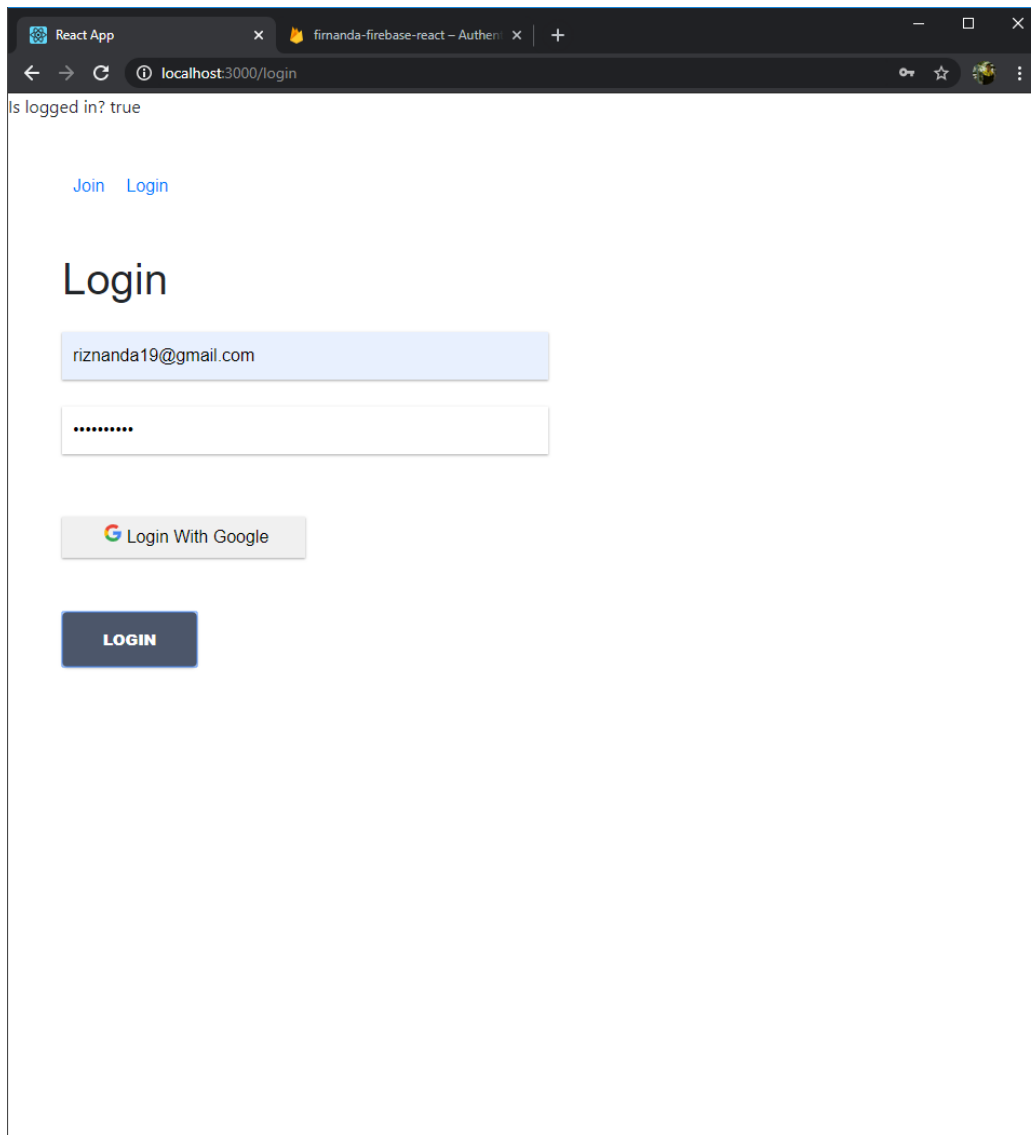
rznanda19@gmail.com

.....

 Login With Google

LOGIN

21. Hasil setelah kita klik login



TUGAS

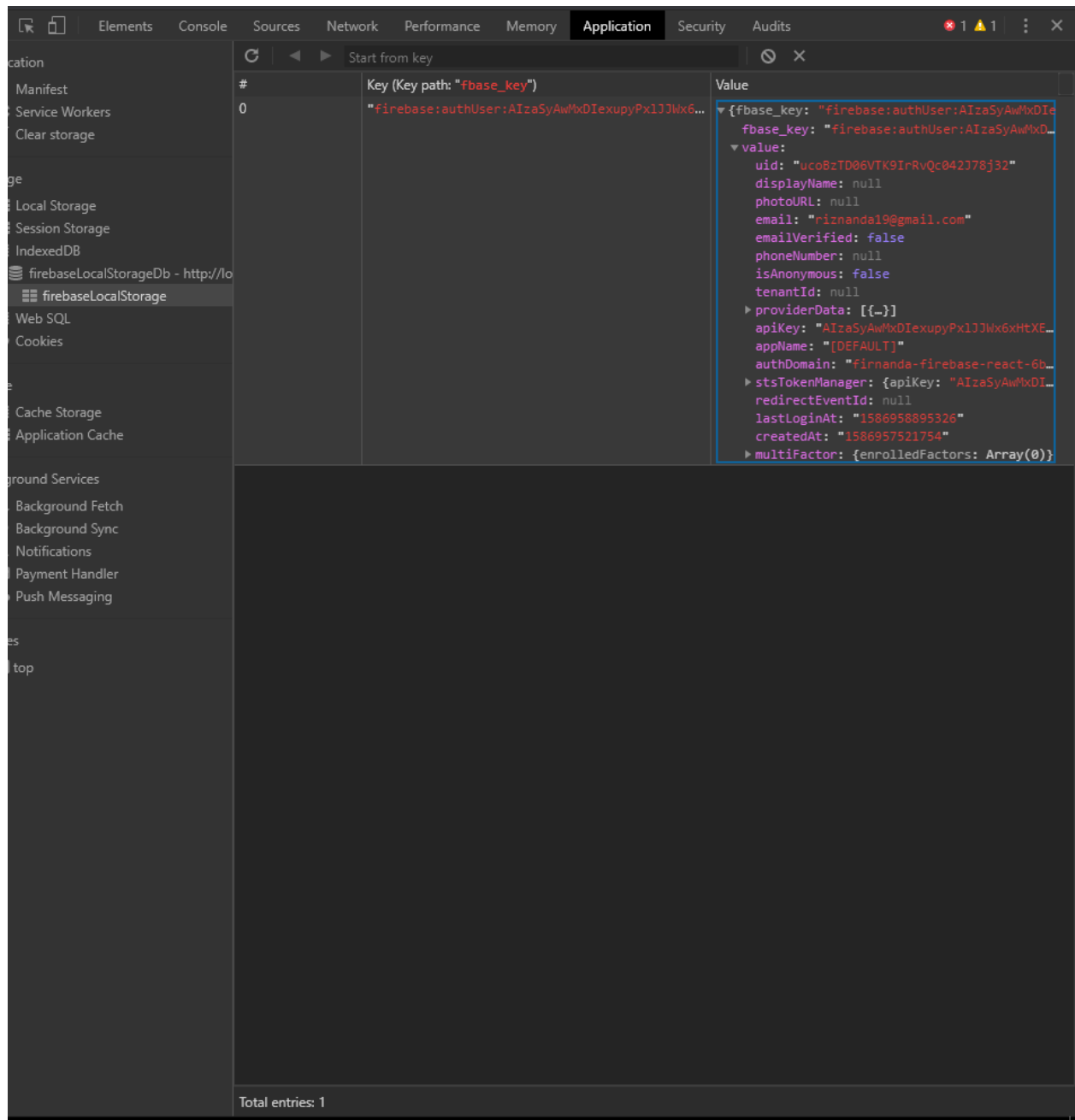
1. Membuat method pada file Join.js

```
src > JS Join.js > [e] Join
23   const googleJoin = () => {
24       const provider = new firebase.auth.GoogleAuthProvider();
25       firebase
26       .auth()
27       .signInWithPopup(provider)
28       .then((res) => {
29           Auth.setLoggedIn(true);
30       });
31   };
```

2. Tambahkan button dengan memberi method onclick

```
<button class="googleBtn" type="button"
onClick={() => googleJoin()}>
  
  Join With Google
</button>
```

3. Jika sudah login maka akan masuk ke database



The screenshot shows the Chrome DevTools Application tab. The left sidebar lists various storage and application areas, with 'firebaseLocalStorage' selected. The main panel displays a table with one entry. The 'Key' column shows a path starting with 'firebase:authUser:'. The 'Value' column shows a JSON object representing a Firebase user profile.

#	Key (Key path: "fbase_key")	Value
0	"firebase:authUser:AIzaSyAwMxDIexupyPx1JJWx6..."	<pre>{ "fbase_key": "firebase:authUser:AIzaSyAwMxDIexupyPx1JJWx6...", "fbase_key": "firebase:authUser:AIzaSyAwMxDIexupyPx1JJWx6...", "value": { "uid": "uco8zTD06VTK9IrRvQc042J78j32", "displayName": null, "photoURL": null, "email": "riznanda19@gmail.com", "emailVerified": false, "phoneNumber": null, "isAnonymous": false, "tenantId": null, "providerData": [{ "apiKey": "AIzaSyAwMxDIexupyPx1JJWx6xHtXE...", "appName": "[DEFAULT]", "authDomain": "firnanda-firebase-react-6b...", "stsTokenManager": { "apiKey": "AIzaSyAwMxDIexupyPx1JJWx6xHtXE...", "redirectEventId": null, "lastLoginAt": "1586958895326", "createdAt": "1586957521754" }, "multiFactor": { "enrolledFactors": Array(0) } }] } }</pre>

Total entries: 1