

TUGAS PERORANGAN

Minggu 11 React Firebase

Disusun sebagai

MATA KULIAH: PBF

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TI – 3B / 23



PROGRAM STUDI: D-IV TEKNIK INFORMATIKA

JURUSAN: TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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1. Menambahkan komponen dan route pada app.js

```
src > App.js > ...
1 import React, {useState} from 'react';
2 import {Switch, BrowserRouter as Router, Route} from "react-router-dom";
3 import routes from 'routes.js';
4 import Header from 'Header';
5 import "./App.css";
6
7 export const AuthContext = React.createContext(null);
8
9 function App() {
10   const [isLoggedIn, setLoggedIn] = useState(false);
11
12   return (
13     <AuthContext.Provider value= {{isLoggedIn, setLoggedIn}}>
14       is logged in? {JSON.stringify(isLoggedIn)}
15       <div className="App">
16         <Router>
17           <Header/>
18           <Switch>
19             {routes.map(route => (
20               <Route
21                 key={route.path}
22                 path={route.path}
23                 exact={route.exact}
24                 component = {route.main} />
25             ))}
26           </Switch>
27         </Router>
28       </div>
29     </AuthContext.Provider>
30   );
31 }
```

2. Membuat login.js , yang merupakan form untuk login

```
src > Login.js > Login
1 import React, {useState,useContext} from "react";
2 import {AuthContext} from './App';
3
4 const Login = () => {
5   const [email, setEmail] = useState("");
6   const [password, setPassword] = useState("");
7   const [error, setError] = 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 value="email" type="email" placeholder="Email"/>
21         <input onChange={e => setPassword(e.target.value)}
22           name="password"
23           type="password"
24           value= {password}
25           placeholder="Password"/>
26         <hr />
27         <button className="googleBtn" type="button">
28           
31           Login with Google
32         </button>
33         <button type="submit">Login</button>
34         <span>{error}</span>
35       </form>
36     </div>
37   )
38 }
39
40 export default Login;
```

3. Membuat Join.js

```

src > Join.js > default
1  import React, {useState, useContext} from 'react';
2  import {AuthContext} from './App';
3
4  const Join = () =>{
5      const [email, setEmail] = useState("");
6      const [password, setPassword] = useState("");
7      const [error, setError] = 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
17     return (
18         <div>
19             <h1>Join</h1>
20             <form onSubmit = {e => handleForm(e)}>
21                 <input
22                     value={email}
23                     onChange={e => setEmail(e.target.value)}
24                     name='email'
25                     type="email"
26                     placeholder="Email"/>
27                 <input
28                     onChange= {e => setPassword(e.target.value)}
29                     name="password"
30                     value={password}
31                     type="password"
32                     placeholder="Password"/>
33                 <hr />
34                 <button className="googleBtn" type="button">
35                     
38                     Join with Google
39                 </button>
40
41                 <button type="submit">Login</button>
42
43                 <span>{error}</span>
44             </form>
45         </div>

```

4. Membuat header.js

```

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

```

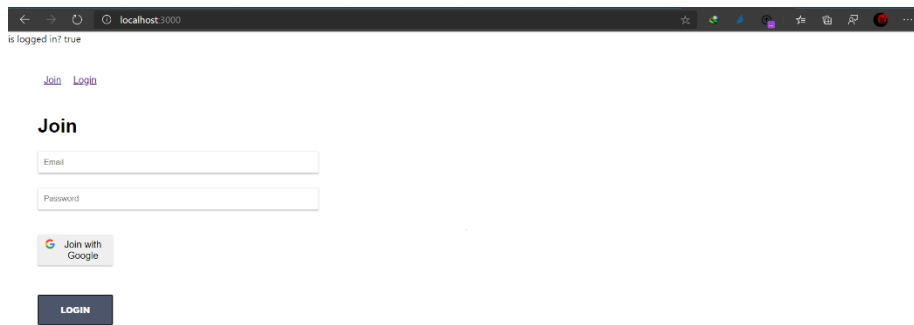
5. Membuat routes.js

```

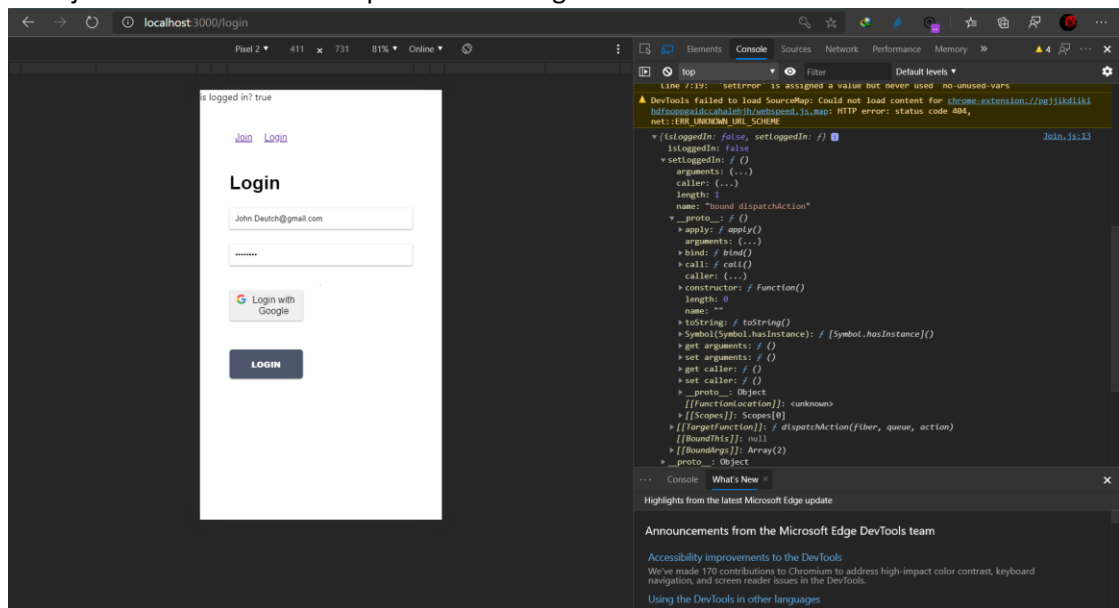
src > routes.js > default
1  import React from "react";
2  import Login from "./Login";
3  import Join from "./Join";
4
5  const routes = [
6      {name: "Join", path: "/", exact:true, main: ()=><Join/>},
7      {name: "Login", path: "/login", exact:true, main:()=> <Login/>}
8  ];
9
10 export default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

```

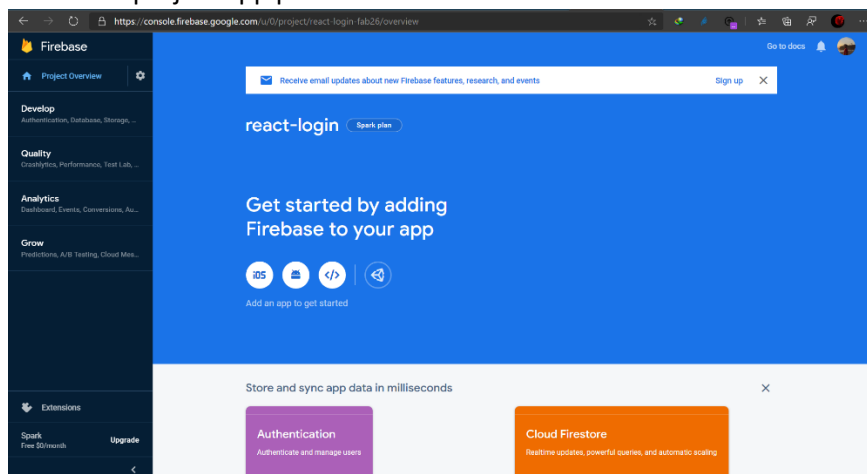
6. Hasil setelah dijalankan



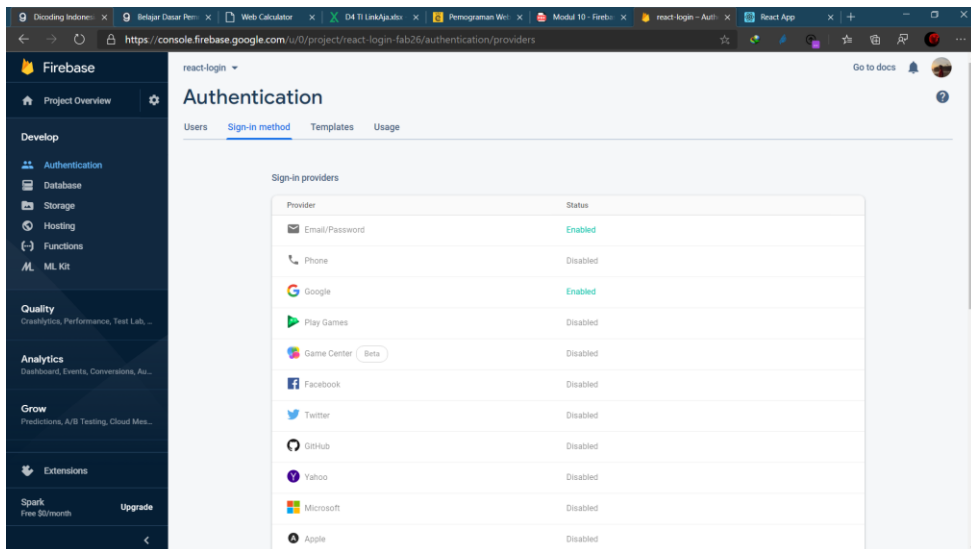
7. Hasil jika sudah diisi maka pada console log akan keluar nilai



8. Membuat project app pada console firebase



9. Melakukan autentikasi agar bisa login dengan google



10. Setelah membuat project menyambungkan firebase dengan aplikasi web yang telah dibuat berikut kode APInya

```
src > firebase.config.js > [default]
1  var firebaseConfig = {
2    apiKey: "AIzaSyCsFkorNs1_GJOIYRr0zzpAx8GZowxtYH8",
3    authDomain: "react-login-fab26.firebaseio.com",
4    databaseURL: "https://react-login-fab26.firebaseio.com",
5    projectId: "react-login-fab26",
6    storageBucket: "react-login-fab26.appspot.com",
7    messagingSenderId: "506362191682",
8    appId: "1:506362191682:web:d6783a454f49e62609f2db",
9    measurementId: "G-FYW22NLZ90"
10 };
11
12 export default firebaseConfig;
```

11. Lalu mengkomunikasikan firebase dan aplikasi web , dengan melakukan import firebase

```
6  import * as firebase from "firebase";
7  import firebaseConfig from "../firebase.config";
8
9  |
10 firebase.initializeApp(firebaseConfig)
```

12. Melakukan import firebase ke join.js

```
1  import React, {useState, useContext} from 'react';
2  import {AuthContext} from './App';
3  import * as firebase from "firebase";
```

13. Jika sudah menambahkan auth firebase pada join.js

```

10     const Auth = useContext(AuthContext);
11     const handleForm = e =>{
12         e.preventDefault();
13         firebase.auth()
14             .createUserWithEmailAndPassword(email, password)
15             .then(res => {
16                 if(res.user) Auth.setLoggedIn(true);
17             }).catch(e => {
18                 setError(e.message);
19             })
20     };
21


```

14. Hasil yang sudah tersambung dengan firebase

is logged in? false


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

Join

 Join with Google

JOIN

Maka pada console firebase sudah terdapat usernya

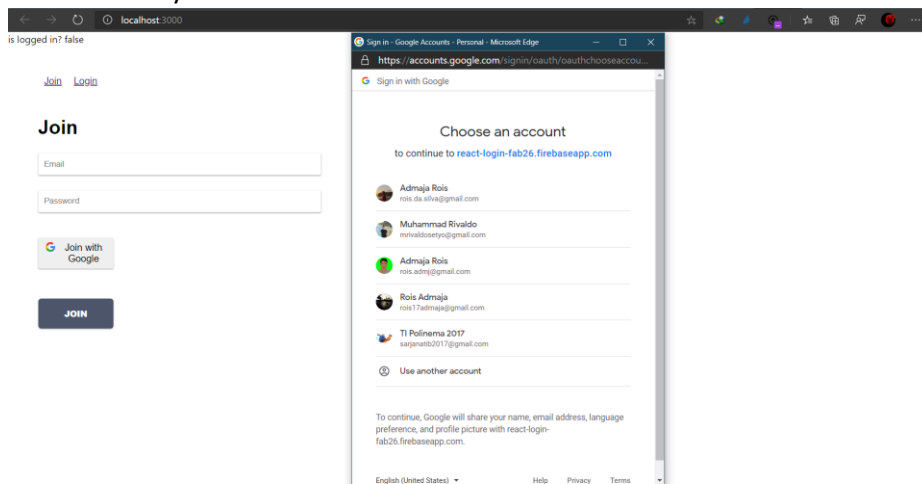
| Search by email address, phone number, or user UID | | | | | Add user |
|--|---|--------------|--------------|------------------------------|----------|
| Identifier | Providers | Created | Signed In | User UID ↑ | |
| filini.yuristiana@gmail.com |  | Apr 15, 2020 | Apr 15, 2020 | pr01865Ya2TE4IBoEysneKnwVmC2 | |

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15. Melakukan login dengan button google yang teredirect ke akun google dengan menambahkan fungsi handle

```
22 const handleGoogleLogin = () => {
23   const provider = new firebase.auth.GoogleAuthProvider();
24   firebase.auth()
25     .setPersistence(firebase.auth.Auth.Persistence.SESSION)
26     .then(() => {
27       firebase.auth()
28         .signInWithPopup(provider)
29         .then(result => {
30           console.log(result);
31           Auth.setLoggedIn(true)
32         }).catch(e => setError(e.message))
33     })
34 }
35
```

16. Berikut hasilnya



17. Pada console firebase user akan bertambah dan memiliki logo google karena telah login menggunakan akun google

