

Laporan Praktikum

“React Firebase”

Disusun sebagai

MATA KULIAH : PBF

Oleh :

Daffa Tahta Akbar

1741720152

Kelas :

3B



PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNIK INFORMASI

POLITEKNIK NEGERI MALANG

2020

Praktikum

1. Ketikkan *create-react-app react-firebase* untuk membuat project react yang baru
2. Di dalam folder src buatlah 6 file baru yaitu :
 - a. Index.js
 - b. Login.js
 - c. Join.js
 - d. Header.js
 - e. routes.js
 - f. styles.css
3. Setelah itu install react-dom dengan *react-router-dom*

4. Setelah terinstall buka file index.js dan ketikkan code berikut

```
import React, { useState } from "react";
import ReactDOM from "react-dom";
import { Switch, BrowserRouter as Router, Route } from "react-router-dom";
import routes from "./route.js";
import Header from "./Header";
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);
  return (
    <AuthContext.Provider value={{ isLoggedIn, setLoggedIn }}>
      Is logged in? {JSON.stringify(isLoggedIn)}
      <div className="App">
        <Router>
          <Header />

          <Switch>
            {routes.map((route) => (
              <Route
                key={route.path}
                path={route.path}
                exact={route.exact}
                component={route.main}
              />
            ))}
          </Switch>
        </Router>
      </div>
    </AuthContext.Provider>
  );
}

const rootElement = document.getElementById("root");
ReactDOM.render(<App />, rootElement);
```

5. Lalu ke file Login.js dan ketikkan kode berikut

```
import React, { useState, useContext } from "react";
import { AuthContext } from "../index";
import * as firebase from "firebase";

const Login = () => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [error, setError] = useState("");

  const Auth = useContext(AuthContext);
  const handleForm = (e) => {
    e.preventDefault();
    firebase
      .auth()
      .signInWithEmailAndPassword(email, password)
      .then((res) => {
        if (res.user) Auth.setLoggedIn(true);
      })
      .catch((e) => {
        setError(e.message);
      });
  };

  return (
    <div>
      <h1>Login</h1>
      <form onSubmit={e => handleForm(e)}>
        <input
          value={email}
          onChange={e => setEmail(e.target.value)}
          name="email"
          type="email"
          placeholder="email"
        />

        <input
          value={password}
          onChange={e => setPassword(e.target.value)}
          name="password"
          type="password"
          placeholder="password"
        />
        <hr />
        <button class="googleBtn" type="button">
          
  Login With Google
</button>
<button type="submit">Login</button>
<span>{error}</span>
</form>
</div>
);
};

export default Login;
```

6. Edit file Join.js

```
import React, { useState, useContext } from "react";
import { AuthContext } from "../index";
import * as firebase from "firebase";

const Join = () => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [error, setError] = useState("");

  const Auth = useContext(AuthContext);
  const handleForm = (e) => {
    e.preventDefault();
    firebase
      .auth()
      .createUserWithEmailAndPassword(email, password)
      .then((res) => {
        if (res.user) Auth.setLoggedIn(true);
      })
      .catch((e) => {
        setError(e.message);
      });
  };

  return (
    <div>
      <h1>Join</h1>

      <form onSubmit={ (e) => handleForm(e) }>
        <input
          value={email}
          onChange={ (e) => setEmail(e.target.value) }
          name="email"
          type="email"
          placeholder="email"
        />
        <input
          value={password}
          onChange={ (e) => setPassword(e.target.value) }
          name="password"
          type="password"
          placeholder="password"
        />
        <hr />
        <button class="googleBtn" type="button">
          
  Join With Google
</button>
<button type="submit">Join</button>
<span>{error}</span>
</form>
</div>
);
};

export default Join;
```

7. Edit Header.js

```
import React from "react";
import routes from "../route";
import { Link } from "react-router-dom";

const Header = () => (
  <ul className="nav">
    {routes.map((route, i) => (
      <li key={i}>
        <Link to={route.path}>{route.name}</Link>
      </li>
    ))}
  </ul>
);
export default Header;
```


8. Edit route.js

```
import React from "react";
import Login from "../Login";
import Join from "../Join";

const routes = [
  { name: "Join", path: "/", exact: true, main: () => <Join /> },
  { name: "Login", path: "/login", exact: true, main: () =>
    <Login /> },
];

export default routes;
```

9. Edit style.css

```
.App {
  font-family: sans-serif;
  padding: 50px;
}
h1 {
  margin: 0 0 25px 0;
  text-align: left;
}
form {
  display: flex;
  flex-direction: column;
}

input {
  max-width: 450px;
  width: auto;
  border: none;
  margin: 0 0 25px 0;
  box-shadow: 0 1px 3px rgba(0, e, 0, 0.12), e 1px 2px rgba(0,
e, 0, 0.24);
  transition: all 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  padding: 10px;
}

button {
  width: 125px;
  box-shadow: e 1px 3px rgba(0, e, 0, 0.12), 0 1px 2px rgba(e,
0, e, 0.24);
  border: none;
  padding: 7px;
  text-align: center;
  cursor: pointer;
}
button[type="submit"] {
  background-color: #4c566a;
  color: white;
  font-size: 14px;
  font-weight: 900;
  border-radius: 5px;
  text-transform: uppercase;
  padding: 15p;
}
.googleBtn {
  width: 225px;
  margin: 0 0 50px 0;
```

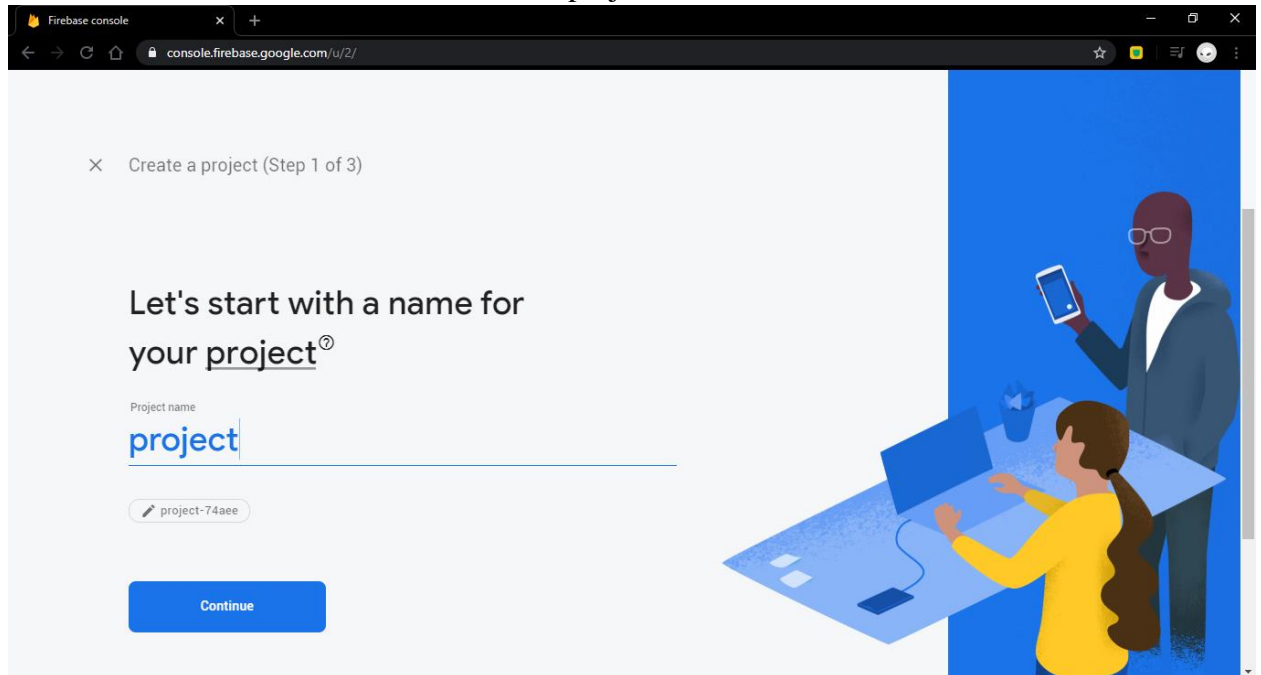
```
    display: flex;
    justify-content: center;
    font-size: 16px;
}

.googleBtn img {
    width: 16px;
    height: 16px;
    padding: 0;
    margin: 0 5px;
    vertical-align: middle;
}

.nav {
    display: flex;
    text-decoration: none;
    list-style-type: none;
    justify-content: flex-start;
    margin: 0 0 50px;
    padding: 0;
}

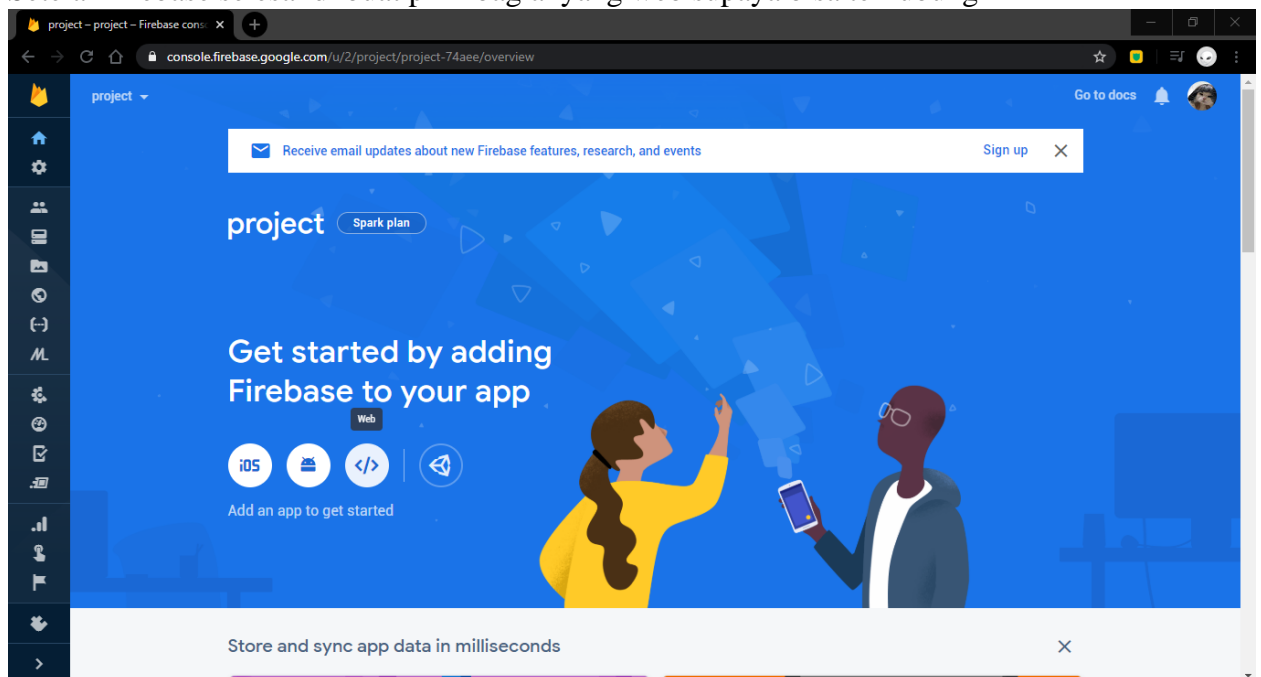
.nav li {
    margin: 0 10px;
}
```

10. Kemudian buika console firebase dan buat projectbaru

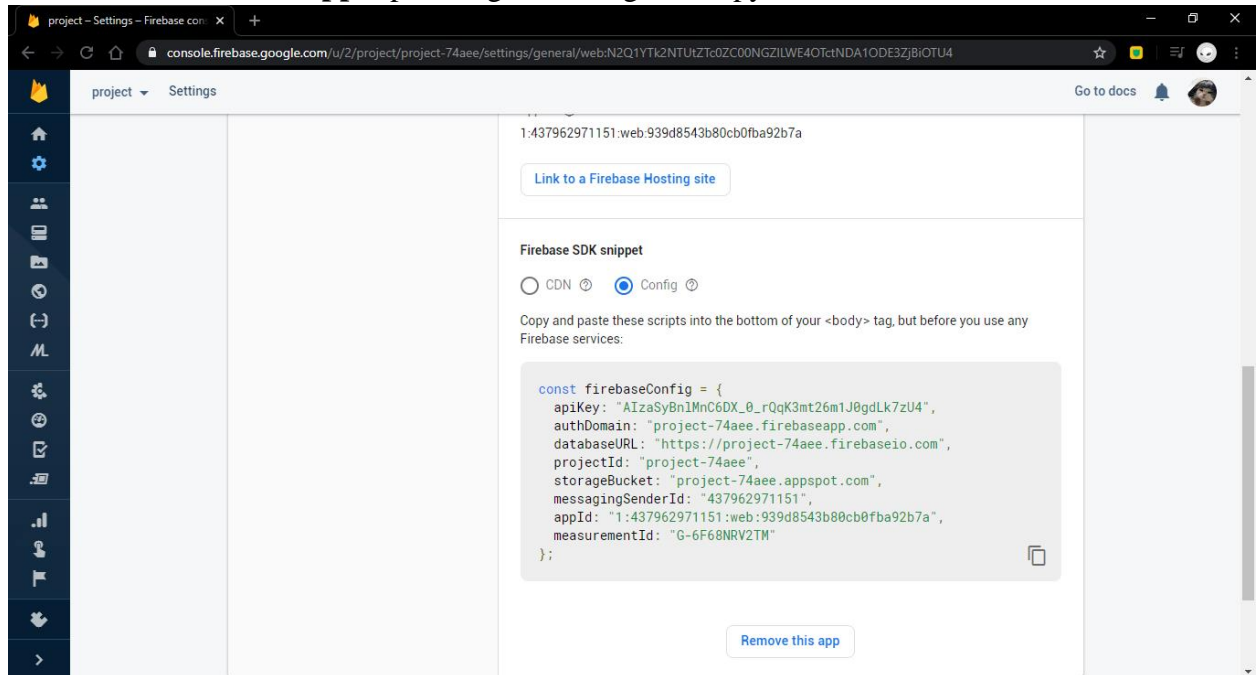


11. Lalu install firebase di react dengan cara *npm i --save firebase*

12. Setelah firebase selesai di buat pilih bagianyang web supaya bisa terhubung



13. Pada **Firestore SDK Snippet** pilih bagian Config lalu copy



14. Buat file baru dengan nama `firebase.config.js`

15. Paste code yang telah di copy tersebut

16. Tambahkan line code ini di `index.js`

```
import * as firebase from "firebase";
import firebaseConfig from "../firebase.config";

firebase.initializeApp(firebaseConfig);
```

17. Tambah dan rubah Join.js

```
import * as firebase from "firebase";

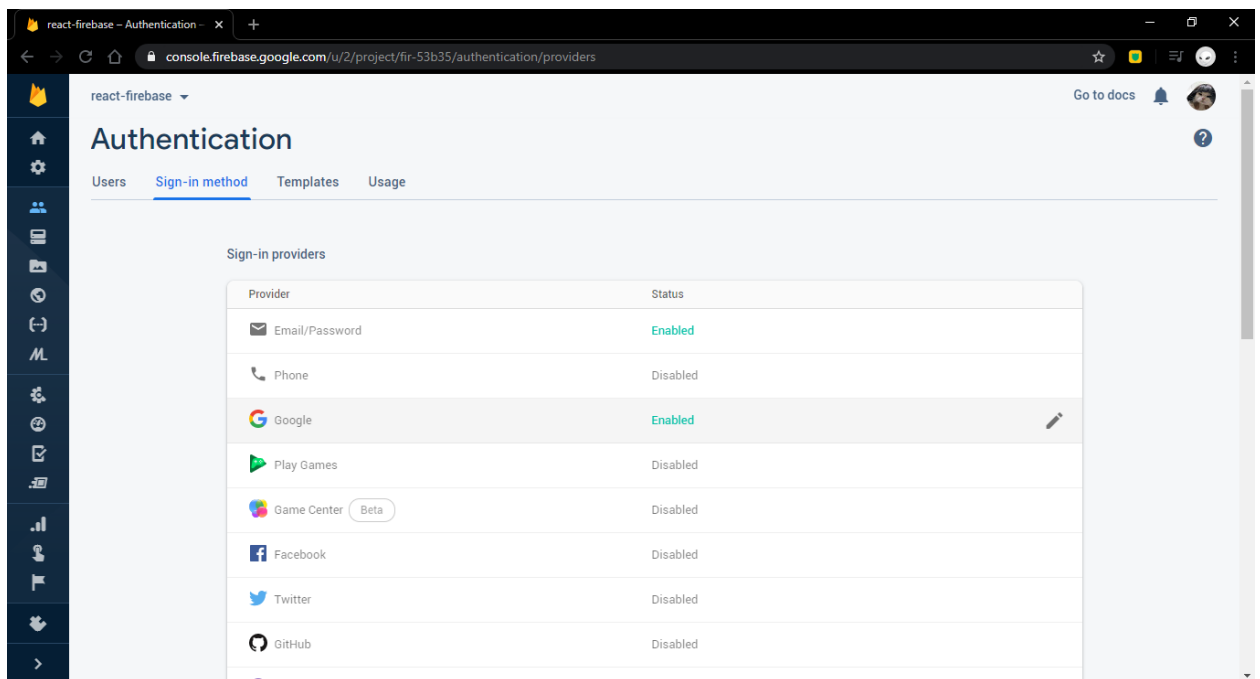
di method auth :
const handleForm = (e) => {
  e.preventDefault();
  firebase
    .auth()
    .createUserWithEmailAndPassword(email, password)
    .then((res) => {
      if (res.user) Auth.setLoggedIn(true);
    })
    .catch((e) => {
      setError(e.message);
    });
};
```

18. Tambah dan rubah Login.js

```
import * as firebase from "firebase";

di method auth
const handleForm = (e) => {
  e.preventDefault();
  firebase
    .auth()
    .signInWithEmailAndPassword(email, password)
    .then((res) => {
      if (res.user) Auth.setLoggedIn(true);
    })
    .catch((e) => {
      setError(e.message);
    });
};
```

19. Buka firebase dan aktifkan authentication email dan google



Tugas

1. Buka file Join.js
2. Tambahkan code berikut ke

```
import firebaseConfig from "../firebase.config";

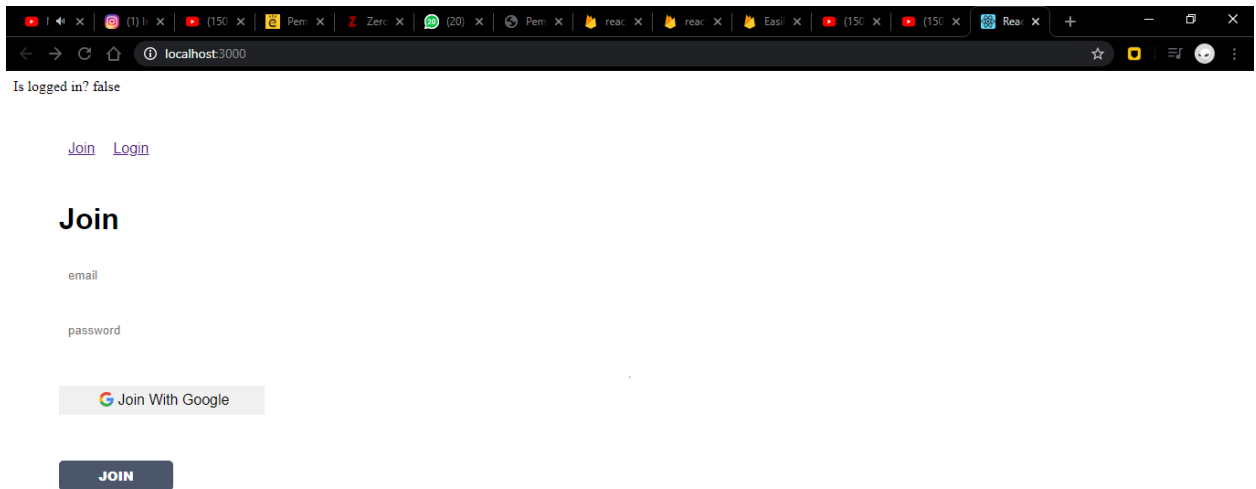
firebase.initializeApp(firebaseConfig);

const google = () => {
  const provider = new
firebase.auth.GoogleAuthProvider();
  firebase
    .auth()
    .signInWithPopup(provider)
    .then(function (res) {
      console.log(res);
      console.log("naisu");
    })
    .catch(function (e) {
      console.log(e);
      console.log("no naisu");
    });
};
```

3. Edit google button di dalam file Join.js

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

4. Hasil sebelum



setelah

