TUGAS INDIVIDU

PEMROGRAMAN BERBASIS FRAMEWORK

"Set up firebase for react, Integrasi react dengan firebas,

And Using react firebase auth"



oleh:

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TI-3A

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

2020

Praktikum

Langkah-langkah praktikum

- 1. Membuat project react baru
- 2. Lalu menghapus file pada folder **src** dan menggantikannya dengan file berikut yaitu **index.js**; **Login.js**; **Join.js**; **Header.js**; **routes.js**; **styles.css**
- 3. Menginstall react router dom, seperti berikut:

```
PS E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-Firebase> npm install react-router-d
                  ENOENT: no such file or directory, open 'E:\POLINEMA\Semester 6\PB
28-TikaYulianti-TI3A-Firebase\package.json'
npm notice created a lockfile as package-lock.json. You should commit this file.
    MARN enoent ENOENT: no such file or directory, open 'E:\POLINEMA\Semester 6\PBF\28-
TikaYulianti-TI3A-Firebase\package.json'
npm MARN react-router-dom@5.1.2 requires a peer of react@>=15 but none is installed. Yo
u must install peer dependencies yourself.
npm MARN react-router@5.1.2 requires a peer of react@>=15 but none is installed. You mu
st install peer dependencies yourself.
npm MARN mini-create-react-context@0.3.2 requires a peer of react@^0.14.0 || ^15.0.0 ||
 ^16.0.0 but none is installed. You must install peer dependencies yourself.
        28-TikaYulianti-TI3A-Firebase No description
        28-TikaYulianti-TI3A-Firebase No repository field.
        28-TikaYulianti-TI3A-Firebase No README data
npm
        28-TikaYulianti-TI3A-Firebase No license field.
+ react-router-dom@5.1.2
added 19 packages from 11 contributors and audited 52 packages in 7.985s
found 0 vulnerabilities
PS E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-Firebase> npm install --save firebas
> core-js@3.6.4 postinstall E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-Firebase\no
de_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"
Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling Jav
aScript standard library!
```

4. Membuat beberapa file baru didalam folder src

Index.js

```
JS index.js X JS Login.js
                                     JS Join.js
                                                                     JS routes.js
modul10 > src > JS index.js > 🕥 App
      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";
      import "./styles.css";
import * as firebase from "firebase";
      import firebaseConfig from "./firebase.config";
 10
      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}
                                                                                    ... X
                            </Switch>
                       </Router>
                                                                Tika Yulianti (28)
                                                                1741720153
               </AuthContext.Provider>
                                                                TI-3A
      const rootElement = document.getElementById("root");
      ReactDOM.render(<App/>, rootElement);
```

Login.js

```
JS index.js
                   JS Login.js • JS Join.js
                                                   JS Header.js
                                                                   JS routes.js
                                                                                   # styles.css
                                                                                                   JS firebase.confid
modul10 > src > JS Login.js > [@] Login > [@] handleForm
      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,setErrors] = useState("");
          const Auth = useContext(AuthContext);
          const handleForm = e => {
            e.preventDefault();
             console.log(Auth);
              Auth.setLoggedIn(true);
          3;
                     --Login</h1>
                  <form onSubmit={e => handleForm(e)}>
                      value={email}
                     onChange={e => setEmail(e.target.value)}
                     name="email"
                      placeholder="email"
                       onChange={e => setPassword(e.target.value)}
                       name="password"
                       value={password}
                       type="password"
                       placeholder="password"
                       <button class="googleBtn" type="button">
                           src="https://upload.wikimedia.org/wikipedia/commons/5/53/Google_%22G%22_Logo.svg"
                           alt="logo"
                          Login With Google
                       <button type="submit">Login</button>
                      <span>{error}</span>
     export default Login;
```

Join.js

```
JS index.js
                    JS Login.js
                                    JS Join.js

    JS Header.js

                                                                      JS routes.js
                                                                                                         JS firebase.confi
     import React, { useState, useContext } from "react";
     import { AuthContext } from "./index";
     const Join =() => {
        const [email, setEmail] = useState("");
const [password, setPassword] = useState("");
         const [error, setErrors] = useState("");
         const Auth = useContext(AuthContext);
         const handleForm = e => {
             e.preventDefault();
12
13
             console.log(Auth);
14
              Auth.setLoggedIn(true);
         return(
                  <h1>Join</h1>
                  <form onSubmit={e => handleForm(e)}>
                      value ={email}
                     onChange={e => setEmail(e.target.value)}
                     name="email"
type="email"
                      placeholder="email"
                      onChange={e => setPassword(e.target.value)}
                      name="password"
value={password}
                      type="password"
                      placeholder="password"
                       <button class="googleBtn" type="button">
                           src="https://upload.wikimedia.org/wikipedia/commons/5/53/Google_%22G%22_Logo.svg"
                           alt="logo"
                           Join With Google
                      -<button type="submit">Login</button>
     export default Join;
```

Header.js

routes.js

```
# styles.css

## styles.css
## styles.css
## styles.css
## styles.css
## styles.css
## styles.css
## style
```

styles.css

```
# styles.css ×
    JS index.js
                   JS Login.js
                                   JS Join.js
modul 10 > src > # styles.css > 😭 .nav li
      .App{
          font-family: sans-serif;
          padding: 50px;
          margin: 0 0 25px 0;
          text-align: left;
          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, 0, 0, 0.12), 0 1px 2px □rgba(0, 0, 0, 0.24);
          transition: all 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
          padding: 10px;
      button{
          width: 125px;
          box-shadow: 0 1px 3px □rgba(0, 0, 0, 0.12), 0 1px 2px □rgba(0, 0, 0, 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: 15px;
45 ∨ .googleBtn{
         width: 225px;
         margin: 0 0 50px 0;
         display: flex;
         justify-content: center;
         font-size: 16px;
53 ∨ .googleBtn img{
        width: 16px;
        height: 16px;
      padding: 0;
      margin: 0 5px;
         vertical-align: middle;
61 \vee .nav{
        display: flex;
         text-decoration: none;
         list-style-type: none;
         justify-content: flex-start;
         margin: 0 0 50px;
         padding: 0;
70 ∨ .nav li{
         margin: 0 10px;
```

- 5. Kemudian membuka https://console.firebase.google.com/ dan membuat project baru pada firebase dengan nama PBFModul10
- 6. Melakukan perintah **npm install --save firebase** pada cmd directory project react seperti berikut:

```
PS E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-Firebase> npm install --save firebas

> core-js@3.6.4 postinstall E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-Firebase\no
de_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

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

The project needs your help! Please consider supporting of core-js on Open Collective o
r 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 E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-Firebase
```

7. Setelah itu melakukan setting pada project firebase agar saling terhubung dengan project react. Memilih web pada setting get started



8. Setelah itu akan mendapatkan script konfigurasi yang akan menghubungkan dengan project react

```
Copy-paste skrip ini ke bagian bawah tag <body> Anda, tetapi sebelum Anda menggunakan layanan Firebase
apa pun:
  <!-- The core Firebase JS SDK is always required and must be listed first -->
  <script src="https://www.gstatic.com/firebasejs/7.14.0/firebase-app.js"></scrip</pre>
   <!-- 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-analytics.js"><</pre>
   <script>
      // Your web app's Firebase configuration
      var firebaseConfig = {
   apiKey: "AIzaSyAjoKv48BUB6Ty9K8uCu8xPikKTjuJmYR8",
   authDomain: "pbfmodul10.firebaseapp.com",
   databaseURL: "https://pbfmodul10.firebaseio.com",
       projectId: "pbfmodul10",
       storageBucket: "pbfmodul10.appspot.com",
       messagingSenderId: "434602694382",
appId: "1:434602694382:web:4135eced8a547f148945ff
measurementId: "G-EJGT0D6J4F"
        Initialize Firebase
     firebase.initializeApp(firebaseConfig);
     firebase.analytics();
   </script>
```

9. Membuat file baru di dalam **src** dengan nama **firebase.config.js**, lalu menyalin script firebase diatas ke dalam file **firebase.config.js**

```
modul10 > src > Js firebase.config.js > [@] default

1    export default[]

2    apiKey: "AIzaSyAjoKv48BUB6Ty9K8uCu8xPikKTjuJmYR8",

3    authDomain: "pbfmodul10.firebaseapp.com",

4    databaseURL: "https://pbfmodul10.firebaseio.com",

5    projectId: "pbfmodul10",

6    storageBucket: "pbfmodul10.appspot.com",

7    messagingSenderId: "434602694382",

8    appId: "1:434602694382:web:4135eced8a547f148945ff",

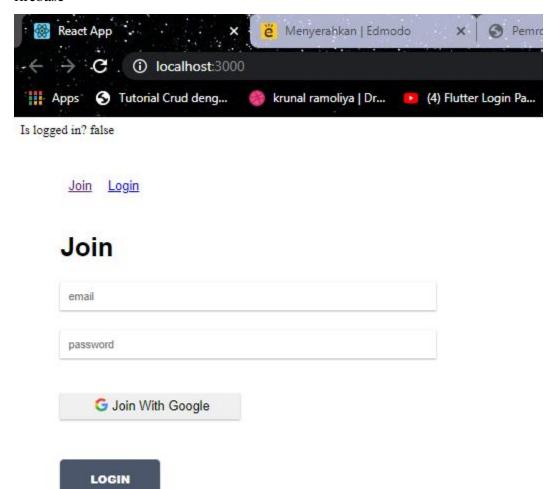
9    measurementId: "G-EJGT0D6J4F"

10 }
```

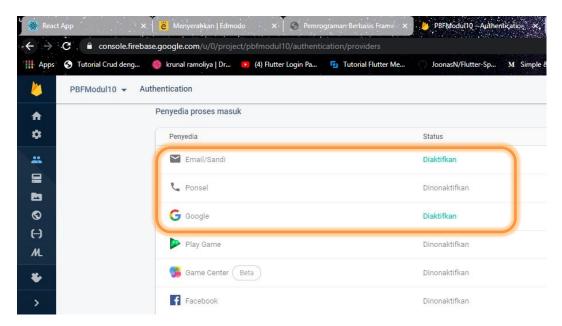
10. Melakukan inisialisasi firebase config dengan menambahkan code kedalam file **index.js** seperti berikut:

```
JS index.js
                    JS Login.js
                                    JS Join.js
                                                     JS Header.js
                                                                     JS routes.js
modul10 > src > JS index.js > 쉱 App
     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";
      import "./styles.css";
      import * as firebase from "firebase";
      import firebaseConfig from "./firebase.config";
      firebase.initializeApp(firebaseConfig);
      export const AuthContext = React.createContext(null);
```

11. Menjalankan project untuk mengecek error dan memastikan project telah terhubung pada firebase



12. Mengaktifkan aunthentication email dan google pada firebase console



13. Melakukan edit pada file **Join.js** untuk membuat email dan password user.

Pertama mengimport dahulu objek firebase agar bisa digunakan pada **Join.js** dengan code seperti berikut:

```
modul10 > src > Js Join.js > [@] Join > [@] handleForm > ③ catch() callback

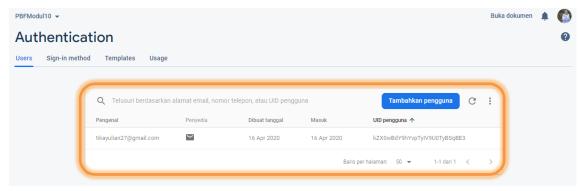
1 import React, -{ -useState, -useContext -} -from - "react";

2 import -{ AuthContext -} -from - "-/index";
import -* -as -firebase - from - "firebase";

4
```

Lalu mengedit method **auth** seperti code berikut:

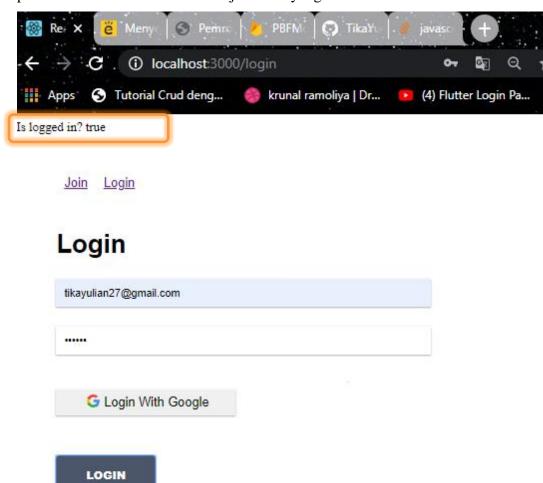
14. Mengisikan email dan password pada aplikasi lalu klik **join.** Kemudian mengecek pada firebase, maka user yang telah join akan tersimpan dalam firebase



15. Melakukan edit pada file **Login.js** agar user dapat login dengan akun yang telah dibuat. Pertama mengimport dahulu objek firebase agar bisa digunakan pada **Login.js** dengan code seperti berikut:

```
JS index.is
                                                      JS Header.is
                     JS Login.js
                                     JS Join.is
                                                                       JS routes.
modul10 > src > JS Login.js > [∅] Login > [∅] handleForm
       import React, { useState, useContext } from "react";
           rt { AuthContext } from " /index":
       import * as firebase from "firebase";
       const Login = () => {
           const [email, setEmail] = useState("");
           const [password, setPassword] =useState("");
           const [error,setErrors] = useState("");
           const Auth = useContext(AuthContext);
 11
           const handleForm = e => {
 12
               e.preventDefault();
 13
               firebase
                .auth()
                .signInWithEmailAndPassword(email, password)
               .then(res => {
 17
                    if (res.user) Auth.setLoggedIn(true);
               })
               .catch(e => {
                    setErrors(e.message);
               });
               // console.log(Auth);
               -// Auth.setLoggedIn(true);
```

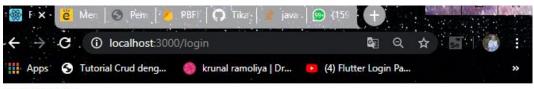
16. Mencoba aplikasi dengan cara klik login kemudian masukkan email dan password yang telah didaftarkan, kemudian perhatikan keterangan login pada pojok kiri atas dengan perubahan kondisi dari **false** menjadi **true** yang menandakan anda telah berhasil login.



Soal Latihan Praktikum

- 1. Membuat laporan Modul 10
- 2. Pada button join with google belum terdapat aksi, silahkan tambahkan function agar dapat mendaftar dengan cara klik button tersebut lalu memilih akun gmail yang akan dipakai.

Jawaban:



Is logged in? false

Join Login

Login

