

TUGAS INDIVIDU

MODUL 10

Firebase ReactJS

Oleh :

Ahmad Syifaur Romli

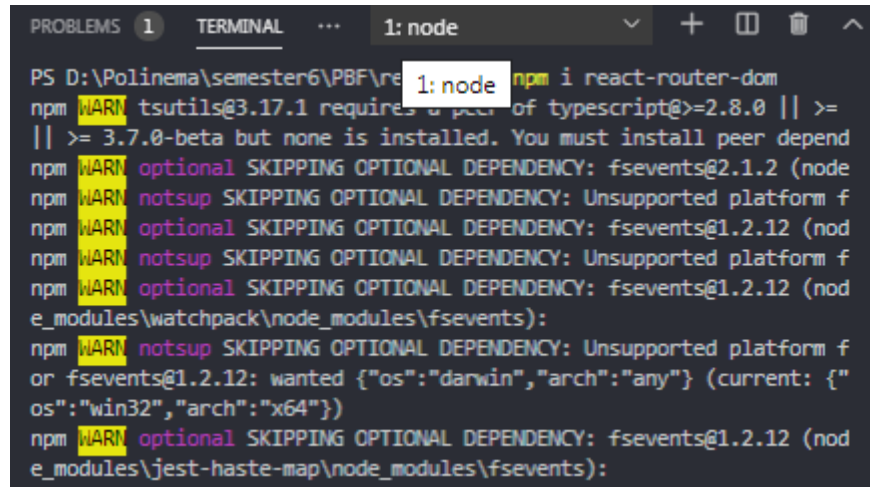
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PROGRAM STUDI D-IV T.INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI POLITEKNIK
NEGERI MALANG
2020

PRAKTIKUM

1. Membuat project react pada directory yang baru.
2. Pada folder **src** buatlah file dengan nama **index.js** ; **Login.js** ; **Join.js** ; **Header.js** ; **router.js** ; **style.css** (file lain yang ada di folder src bisa dihapus saja).
3. Install **npm install react-router-dom**.



```
PS D:\Polinema\semester6\PBF\re 1: node npm i react-router-dom
npm WARN tsutils@3.17.1 requires a peer of typescript@>=2.8.0 || >=
|| >= 3.7.0-beta but none is installed. You must install peer depend
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (nod
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform f
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (nod
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform f
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (nod
e_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform f
or fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"
os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (nod
e_modules\jest-haste-map\node_modules\fsevents):
```

4. **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';
import './style.css'
import * as firebase from 'firebase';
import firebaseConfig from './firebase.config';
// import * as serviceWorker from './serviceWorker';
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>
  </AuthProvider>
);
}
const rootElement=document.getElementById("root");
ReactDOM.render(<App/>,rootElement);

```

5. Login.js

```

import React, {useState, useContext} from 'react';
import {AuthContext} from './index';

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);
  };

  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 className="googleBtn" type="button">
        
        Login With Google
      </button>
      <button type="submit">Login</button>
      <span>{error}</span>
    </form>
  </div>
);
};

export default Login;

```

6. 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,setErrors]= 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=>{
        setErrors(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 className="googleBtn" type="button">
                
                Login With Google
            </button>
            <button type="submit">Login</button>
            <span>{error}</span>
        </form>
    </div>
);
};

export default Join;

```

7. Header.js

```
import React from 'react';
import routes from './routes';
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. routes.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. 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, 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;
}

.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. Buat project baru pada <https://console.firebase.google.com/>



× Buat project(Langkah 1 dari 3)

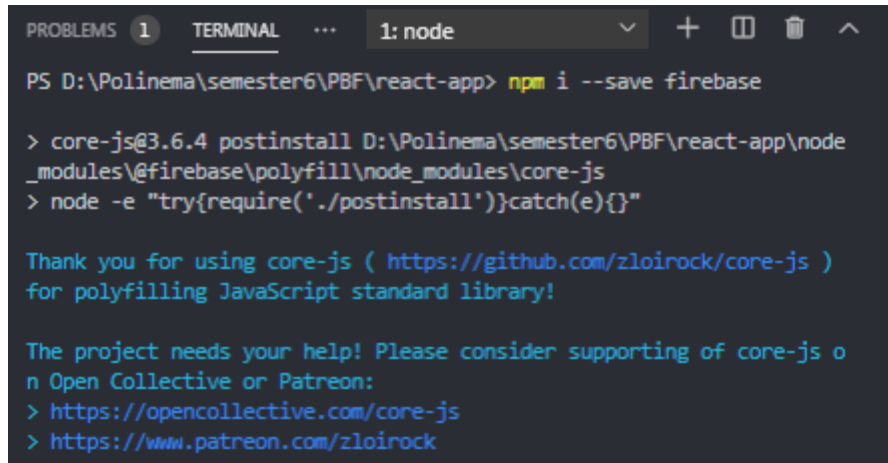
Mari kita mulai dengan nama
project Anda[?]

Nama project

react-firebase-modul-10

react-firebase-modul-10-b3e7b

11. Install **npm install --save firebase** untuk menambahkan dependency firebase.

A screenshot of a terminal window with a dark background. The terminal title bar shows '1: node'. The command prompt is 'PS D:\Polinema\semester6\PBF\react-app>'. The user has entered 'npm i --save firebase'. The output shows the installation of 'core-js@3.6.4' and its postinstall script. The postinstall script runs 'node -e "try{require('./postinstall')}catch(e){}"'. The output of the script is a thank you message for using core-js, a link to the GitHub repository, and a request for support on Open Collective or Patreon, followed by two URLs: 'https://opencollective.com/core-js' and 'https://www.patreon.com/zloirock'.

```
PROBLEMS 1 TERMINAL ... 1: node
PS D:\Polinema\semester6\PBF\react-app> npm i --save firebase

> core-js@3.6.4 postinstall D:\Polinema\semester6\PBF\react-app\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 o
n Open Collective or Patreon:
> https://opencollective.com/core-js
> https://www.patreon.com/zloirock
```

12.Setting pada Aplikasi Firebase ,Agar react aplikasi dapat terhubung (pilih web application)

13.Salin script config dari firebase pada file **src/firebase.config.js**.

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
<script src="https://www.gstatic.com/fi

<!-- TODO: Add SDKs for Firebase product
https://firebase.google.com/docs/we

<script>
  // Your web app's Firebase configurati
  var firebaseConfig = {
    apiKey: "AIzaSyBnhfJfFewbboIqUBWq4t1
    authDomain: "react-firebase-modul-10
    databaseURL: "https://react-firebase
    projectId: "react-firebase-modul-10"
    storageBucket: "react-firebase-modul
    messagingSenderId: "905258645038",
    appId: "1:905258645038:web:3d1ba6e7b
  };
  // Initialize Firebase
  firebase.initializeApp(firebaseConfig)
</script>
```

```
src > 0: firebase.config.js > [?] default
1   export default {
2     apiKey: "AIzaSyBnhfJfFewbboIqUBWq4t1MtS16hlyK2AI",
3     authDomain: "react-firebase-modul-10.firebaseio.com",
4     databaseURL: "https://react-firebase-modul-10.firebaseio.com",
5     projectId: "react-firebase-modul-10",
6     storageBucket: "react-firebase-modul-10.appspot.com",
7     messagingSenderId: "905258645038",
8     appId: "1:905258645038:web:3d1ba6e7b8a8a48b4091bf"
9   }
```

14. Melakukan instalasi firebase config dengan menambahkan code pada **index.js**

```
src > index.js > ...
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';
6 import './style.css'
7 import * as firebase from 'firebase';
8 import firebaseConfig from './firebase.config';
9 //import * as serviceWorker from './serviceWorker';
10 firebase.initializeApp(firebaseConfig);
11
12 export const AuthContext = React.createContext(null);
```

15.Saat coba di jalankan, beginilah hasil outputnya.

Is logged in? true

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

Join

 Login With Google

LOGIN

16.Aktifkan authentication email dn google pada firebase console.

react-firebase-modul-10 Authentication	
Users	Sign-in method
Penyedia proses masuk	
Penyedia	Status
Email/Sandi	Diaktifkan
Ponsel	Dinonaktifkan
Google	Diaktifkan
Play Game	Dinonaktifkan
Game Center Beta	Dinonaktifkan
Facebook	Dinonaktifkan

17. edit pada file **Join.js** untuk membuat email dan password untuk user. import terlebih dahulu object firebase agar dapat digunakan pada **Join.js**

```
1 import React, {useState, useContext} from 'react';
2 import {AuthContext} from './index';
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  };
23
```


18. Saat mengecek pada firebase, maka data user telah terbuat.

Authentication

Users Sign-in method Templates Usage

Telusuri berdasarkan alamat email, nomor tel...

Tambahkan pengguna

Pengenal	Penyedia	Dibuat tanggal	Masuk	UID pengguna ↑
wawing@gmail.com		16 ...	16 ...	RlsJ9m01KgSK...

Baris per halaman: 50 1-1 dari 1

19. Lakukan edit code pada **Login.js** agar dapat sign in/ login dengan akun yang telah dibuat. Langkah pertama yaitu dengan mengimpor object firebase agar bisa digunakan.

```
const Login=()=>{
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const [error, setErrors] = 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=>{
      setErrors(e.message);
    })
  }
}
```


20. Hasil saat program dijalankan.

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


Login

wawing@gmail.com

.....

 Login With Google

LOGIN

Users				
Sign-in method Templates Usage				
<div> <input type="text" value="Telusuri berdasarkan alamat email, nomor tel..."/> <div> Tambahkan pengguna </div> </div>				
Pengenal	Penyedia	Dibuat tanggal	Masuk	UID pengguna ↑
wawing@gmail.com		16 ...	16 ...	2y3Gmf8bp4aR...
<div> Baris per halaman: 50 1-1 dari 1 </div>				