LAPORAN PRAKTIKUM PEMROGRAMAN BERBASIS FRAMEWORK

Pertemuan Minggu-10

Modul 10 – Firebase ReactJS



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PROGRAM STUDI TEKNIK INFORMATIKA

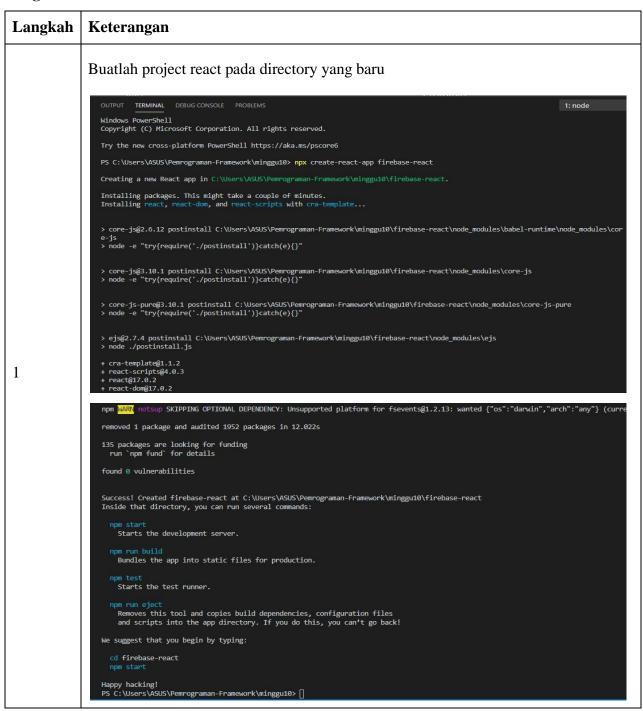
JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

Praktikum

Dalam praktikum ini kita membutuhkan firebase sebagai backend dan reactjs sebagai frontend, oleh karena itu pertama kita lakukan set up pada firebase.

1.1 Langkah Praktikum



Setelah itu pada folder src buatlah file dengan nama index.js; Login.js; Join.js; *Header.js*; routes.js; styles.css (file lain yang ada di folder src bisa dihapus saja). ✓ src # App.css JS App.js JS App.test.js JS Header.is U 2 # index.css JS index.js U JS Join.js U JS Login.js logo.svg JS reportWebVitals.js JS routes.js U JS setupTests.js # styles.css U Karena pada praktikum ini kita menggunakan react router dom, maka lakukan *npm* install react-router-dom dahulu. PS C:\Users\ASUS\Pemrograman-Framework\minggu10\firebase-react> npm install react-router-dom
npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is i
nstalled. You must install peer dependencies yourself. npm MARN tsutils@3.21.0 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-dev || >= 3.7.0-dev SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin", "arch":"any"} (current: 3 npm ward notsup SKIPFING OPTIONAL DEPENDENCY: Graupported platform for isovenisag2.3.2. wanted { 0s . darwin , arch . any } (current. { 0s . win32, "arch": "x64"})

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```
firebase-react > 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.js";
      import "./styles.css";
      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">
                 <Switch>
                   {routes.map((route) => (
                        key={route.path}
                       path={route.path}
                       exact={route.exact}
                       component={route.main}
      const rootElement = document.getElementById("root");
      ReactDOM.render(<App />, rootElement);
```

Login.js

Join.js

```
firebase-react > src > JS Join.js > 🗐 Join
      import React, { useState, useContext } from "react";
      import { AuthContext } from "./index";
         const [email, setEmail] = useState("");
          const [password, setPassword] = useState("");
          const [error, setErrors] = useState("");
 9
         const Auth = useContext(AuthContext);
          const handleForm = (e) => {
             e.preventDefault();
             console.log(Auth);
             Auth.setLoggedIn(true);
          return (
                  <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}
                         placeholder="password"
                      <button class="googleBtn" type="button">
                              alt="logo"
                Join With Google
```

```
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export default Join;
```

Header.js

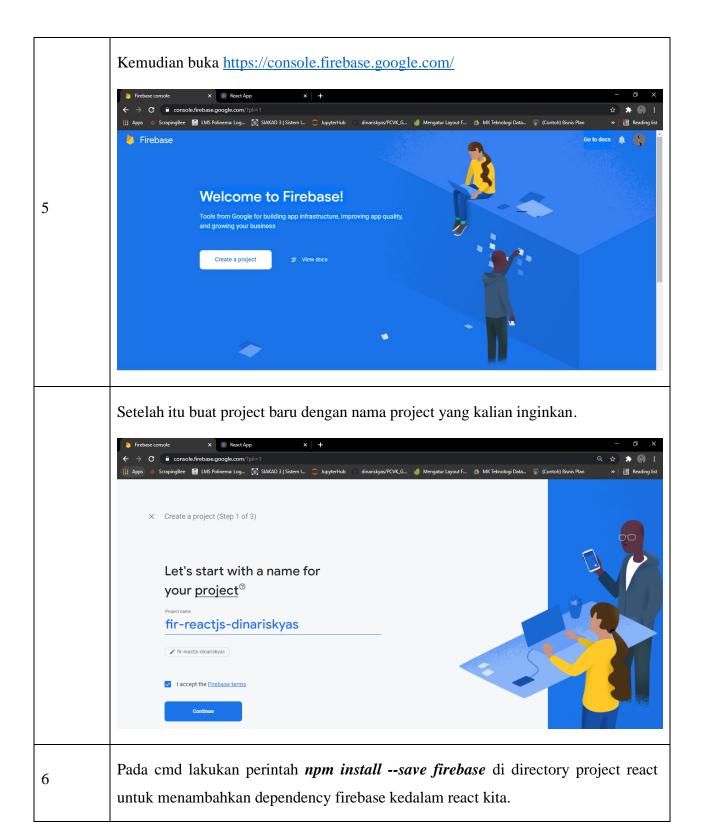
routes.js

```
firebase-react > src > Js 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;
```

styles.css

```
firebase-react > src > # styles.css > 😝 button[type="submit"]
        font-family: sans-serif;
        padding: 50px;
       margin: 0 0 25px 0;
       text-align: left;
     form {
      display: flex;
       flex-direction: column;
      max-width: 450px;
      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 {
       box-shadow: 0 1px 3px □rgba(0, 0, 0, 0.12) 0 1px 2 px □rgba(0, 0, 0, 0.24);
       border: none;
       padding: 7px;
        text-align: center;
      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;
        justify-content: center;
       font-size: 16px;
      .googleBtn img {
       width: 16px;
       height: 16px;
       padding: 0;
       margin: 0 5px;
      vertical-align: middle;
       text-decoration: none;
       list-style-type: none;
       margin: 0 0 50px;
       padding: 0;
       margin: 0 10px;
```



```
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ASUS\Pemrograman-Framework\minggu10\firebase-react> npm install --save firebase
 > core-js@3.6.5\ postinstall\ C:\Users\ASUS\Pemrograman-Framework\minggu10\firebase-react\node\_modules\efirebase\polyfill\node\_modules\core-js\ > node\ -e\ "try{require('./postinstall')}catch(e){}"
The project needs your help! Please consider supporting of core-js on Open Collective or 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 -)
\label{lem:condition} $$ \operatorname{Protobufjsen}.10.2 \ \operatorname{postinstall C:\Users\ASUS\Pemrograman-Framework\minggu10\firebase-react\node\_modules\protobufjs} $$ node \ scripts/postinstall $$ ...$$
                    M @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none is installed.
In peer dependencies yourself.

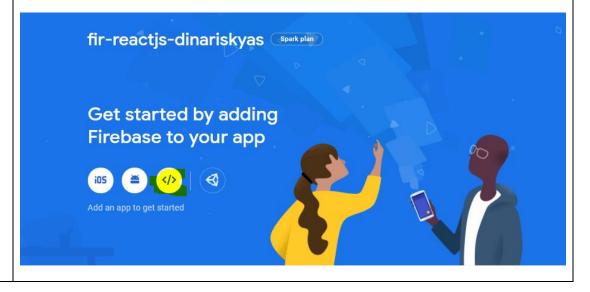
mm MANX issufile§3.21.0 requires a peer of typescript§>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev ta || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.

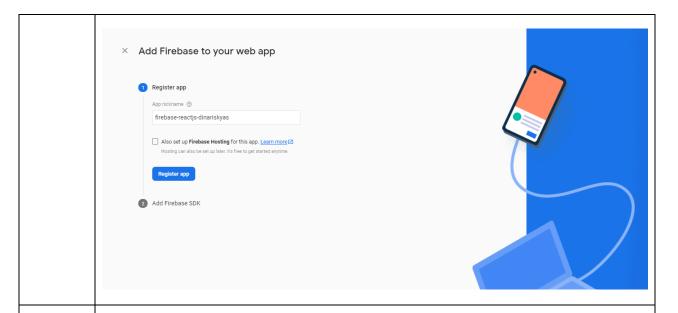
mm MANX @firebase/auth-types@0.10.2 requires a peer of @firebase/util@0.x but none is installed. You must install peer dependencies yourself.

mm MANX @firebase/auth-types@0.1.5 requires a peer of @firebase/util@0.x but none is installed. You must install peer dependencies yourself.

mm MANX optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\specifications optional skIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin", "arch": "any"} (current: {"os":"wanted and the properties of the
npm WAR
                      optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node modules\watchpack-chokidar2\node modules\fsevents):
notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"w
npm WAR x64"})
                      optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"wi
npm WARN notsup SKIF
n32", "arch": "x64"})
+ firebase@8.4.1 added 83 packages from 69 contributors and audited 2046 packages in 299.436s
136 packages are looking for funding run `npm fund` for details
 found 0 vulnerabilities
PS C:\Users\ASUS\Pemrograman-Framework\minggu10\firebase-react>
```

Setelah itu lakukan setting pada project firebase yang kalian buat tadi agar react kalian dapat terhubung dengan firebase. Pada setting get started pilih yang untuk web.





Lalu setelah itu anda akan mendapatkan script konfigurasi yang akan menjadi penghubung dengan project react anda. Salin script tersebut lalu tempel pada file baru di dalam folder **src** yang kita beri nama *firebase.config.js* (gambar dibawah adalah contoh, sesuaikan script yang anda dapat dari firebase).

```
Copy and paste these scripts into the bottom of your <body> tag, but before you use any Firebase services:
  <!-- The core Firebase JS SDK is always required and must be listed first -->
  <script src="https://www.gstatic.com/firebasejs/8.4.1/firebase-app.js"></script</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/8.4.1/firebase-analytics.js">
  <script>
    // Your web app's Firebase configuration
    // For Firebase JS SDK v7.20.0 and later, measurementId is optional
    var firebaseConfig = {
      apiKey: "AIzaSyAxN01YcknMBOanPRria_X00yyo9f0Fp84",
      authDomain: "fir-reactjs-dinariskyas.firebaseapp.com"
      projectId: "fir-reactjs-dinariskyas",
      storageBucket: "fir-reactjs-dinariskyas.appspot.com"
      messagingSenderId: "100956294020",
      appId: "1:100956294020:web:19ae121ed6d9a8545debd1",
      measurementId: "G-CGFHGE3649"
    // Initialize Firebase
    firebase.initializeApp(firebaseConfig);
    firebase.analytics();
  </script>
```

firebase.config.js

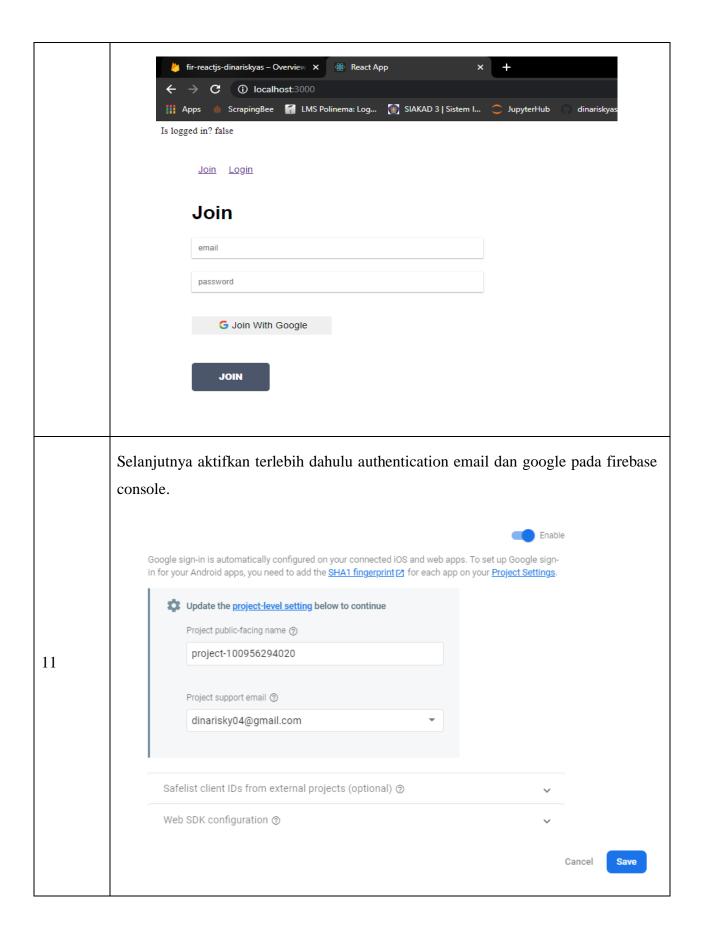
```
firebase-react > src > JS firebase.config.js > ...

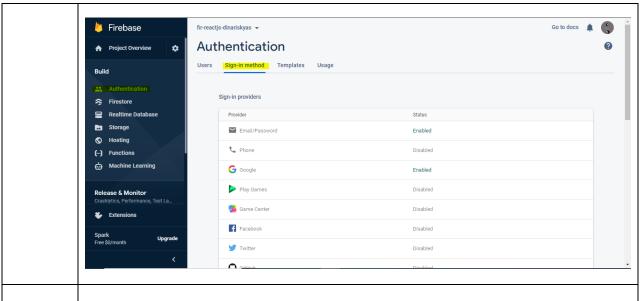
1    var firebaseConfig = {
2         apiKey: "AIzaSyAxN01YcknMBOanPRria_X00yyo9f0Fp84",
3         authDomain: "fir-reactjs-dinariskyas.firebaseapp.com",
4         projectId: "fir-reactjs-dinariskyas",
5         storageBucket: "fir-reactjs-dinariskyas.appspot.com",
6         messagingSenderId: "100956294020",
7         appId: "1:100956294020:web:19ae121ed6d9a8545debd1",
8         measurementId: "G-CGFHGE3649"
9     };
10
11     export default firebaseConfig;
12
```

Lalu lakukan inisialisasi firebase config dengan menambahkan code pada index.js seperti dibawah ini.

Jika sudah berhasil maka coba jalankan, jika tidak terdapat error maka project anda telah terhubung dengan firebase.

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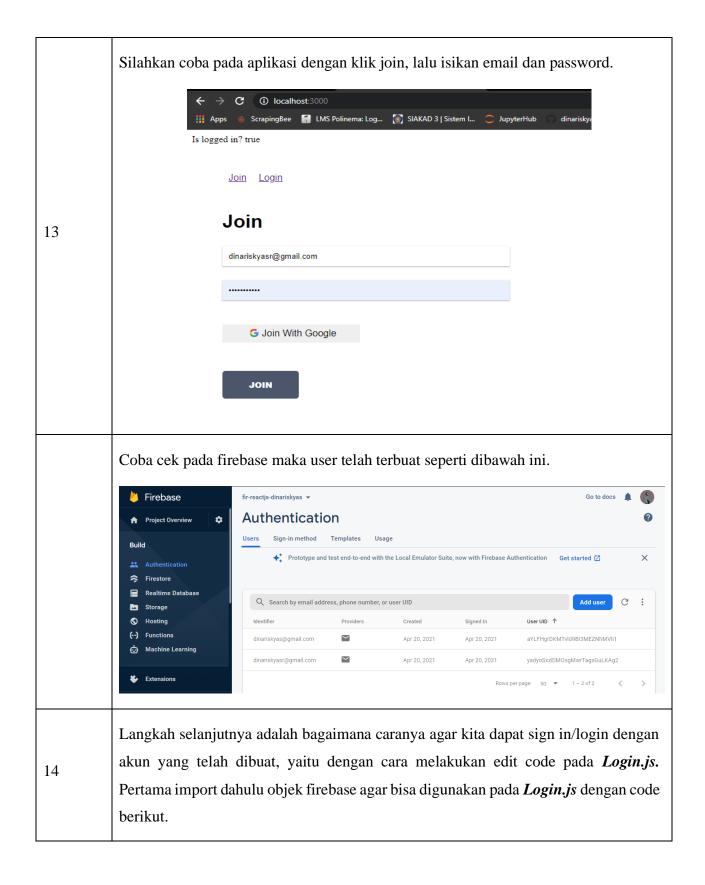




Jika sudah, lakukan edit code pada *Join.js* untuk membuat email dan password untuk user. Pertama import dahulu objek firebase agar bisa digunakan pada *Join.js* dengan code berikut.

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Kemudian cari method auth dan lakukan edit code seperti dibawah ini.



```
firebase-react > src > JS Login.js > ...

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

2   import { AuthContext } from "./index";

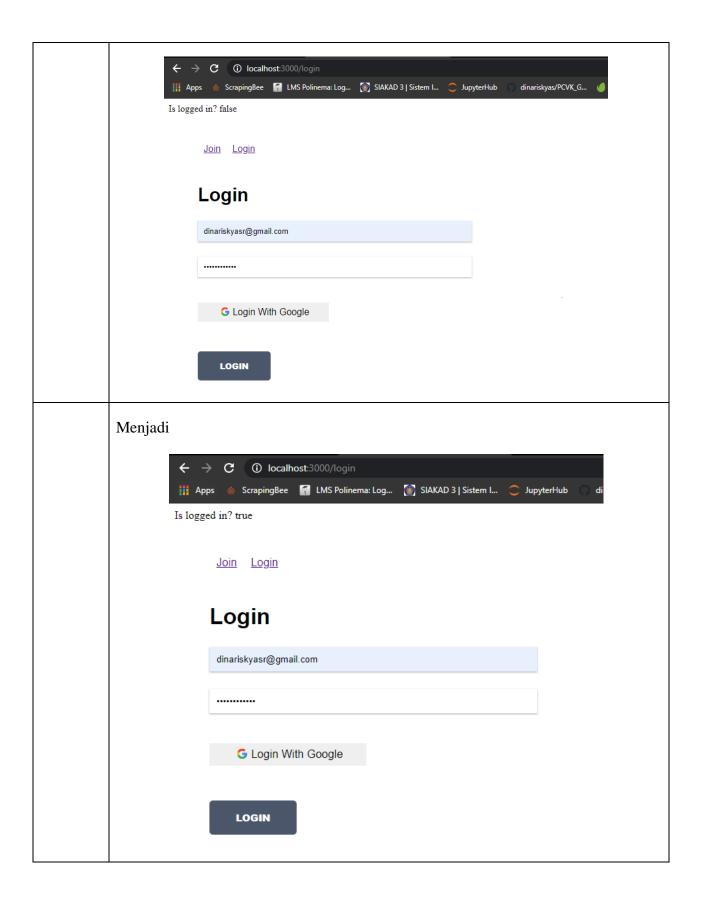
3   import firebase from "firebase";

4
```

Kemudian cari method auth dan lakukan edit code seperti dibawah ini.

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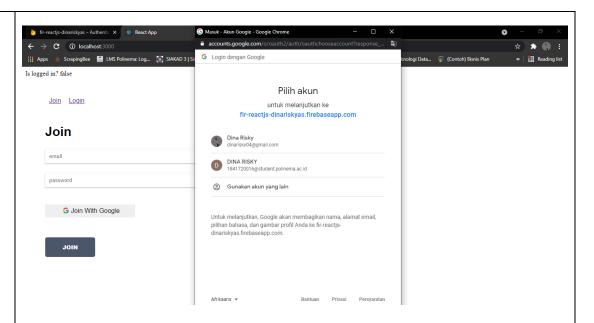
Silahkan coba pada aplikasi dengan cara klik login kemudian masukkan email dan password yang telah didaftarkan, kemudian perhatikan keterangan login pada pojok kiri atas dengan perubahan kondisi dari *false* menjadi *true* yang menandakan anda telah berhasil login.



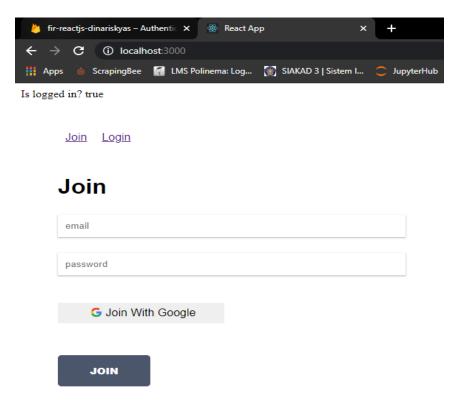
1.2 Soal Langkah Praktikum

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.

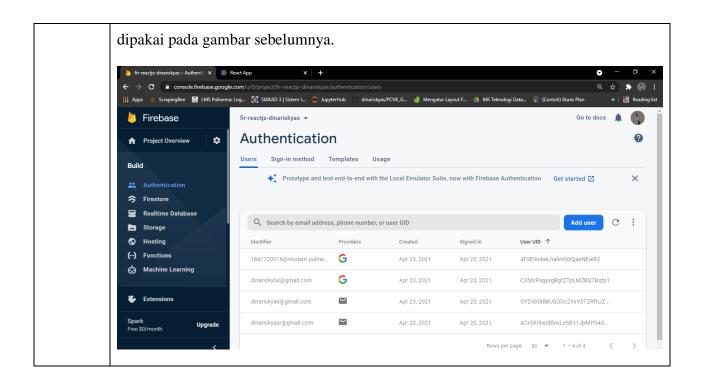
Langkah	Keterangan
1	Buka file Login.js kemudian tambahkan beberapa kode seperti gambar berikut: firebase-react > src > JS Join.js > [@] Join > [@] signInWithGoogle 21
	Dan tambahkan juga pada tag button untuk melakukan aksi onClick Login With Google firebase-react > src > J5 Joinjs > 10 Join 49 onChange={(e) => setPassword(e.target.value)} name="password" value={password} type="password" placeholder="password" placeholder="password" >54 55 Join With Google
2	Hasil



Ketika dipilih salah satu akun gmail maka yang sebelumnya false akan menjadi true pada is logged in.



Maka pada fitur Authentication Users pada console.firebase.google.com akan tersimpan akun gmail yang telah dipilih pada saat memilih akun gmail yang akan



Link Github:

https://github.com/dinariskyas/PemrogramanFramework2021/tree/master/minggu10/firebase-react

Link Youtube:

https://youtu.be/RFpd-SF_N1w