

MODUL 11
FIREBASE LOGIN

PEMROGRAMAN BERBASIS FRAMEWORK

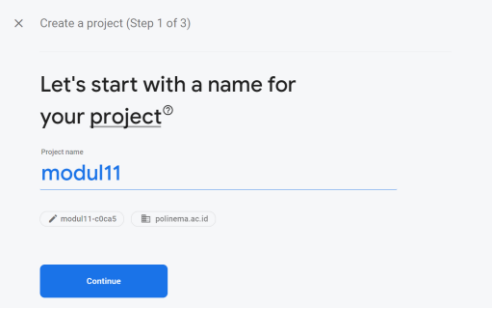
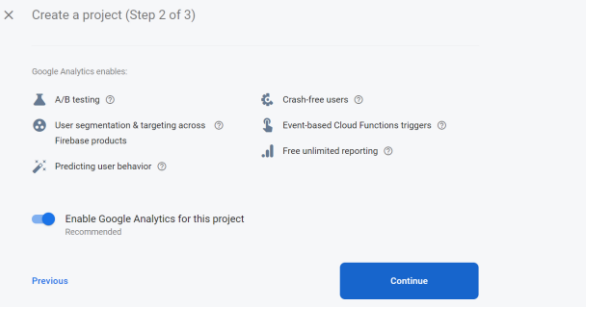
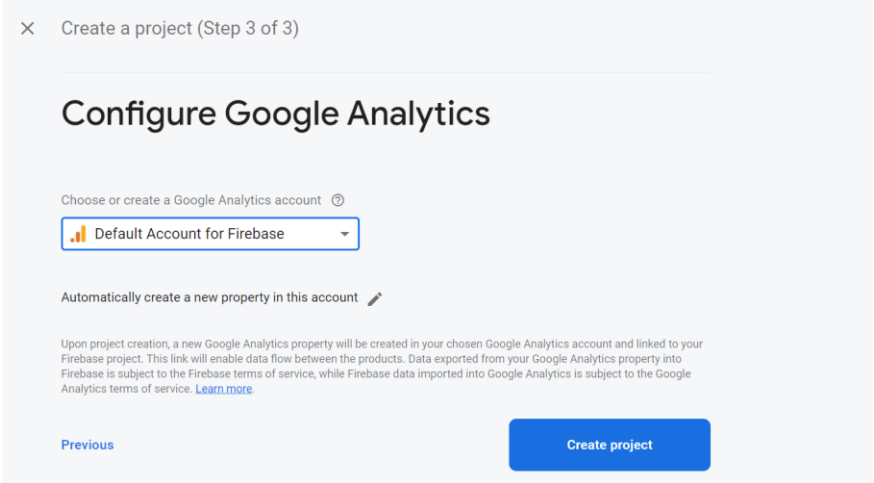
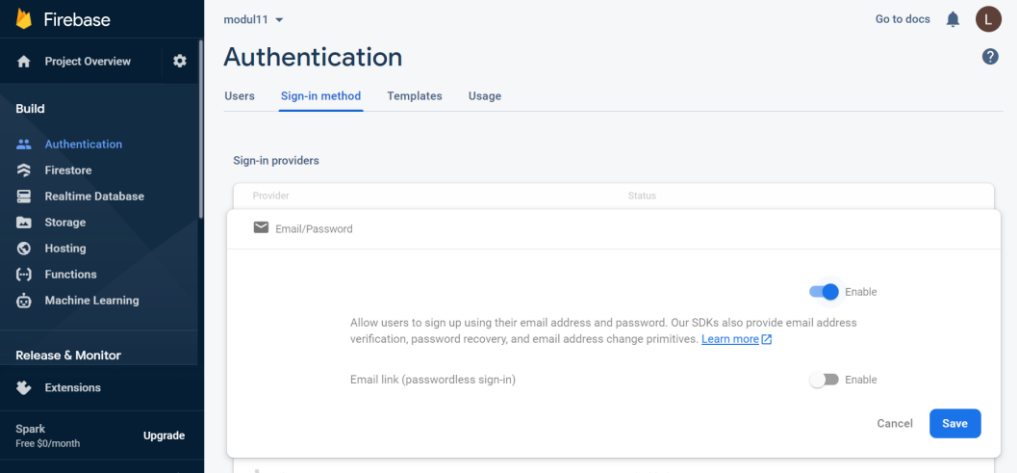


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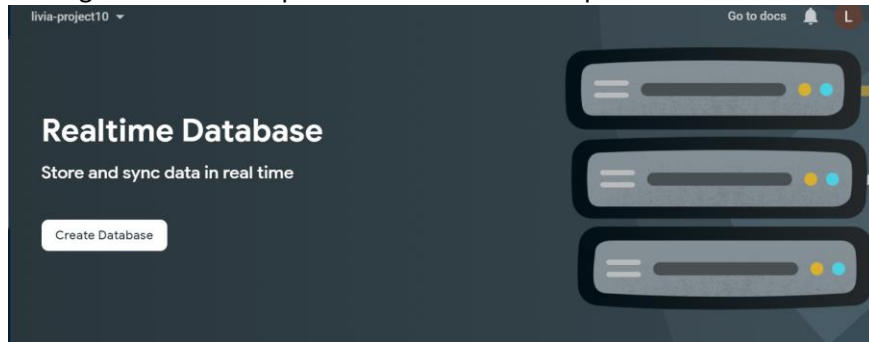
POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI D4 TEKNIK INFORMATIKA

APRIL 2021

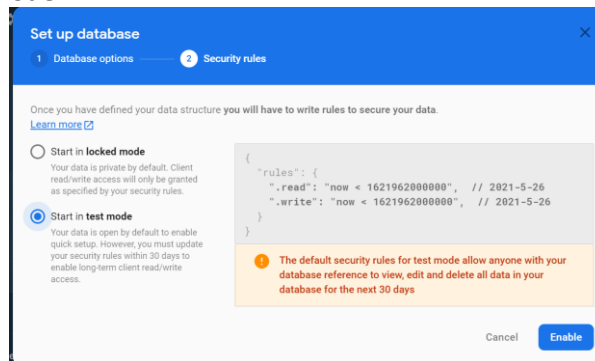
Langkah Praktikum :

No	Keterangan
1.	<p>Setting Firebase Console Login ke firebase console dan add a new project. Pilih authentication dan pilih tab menu Set up sign in method</p> <p>Buat Project baru</p>  <p>Continue</p>  <p>Ganti dengan “Default Account for Firebase”</p>  <p>Pilih Authentication dan pilih tab Set up sign in method, pilih Email/Password dan enable</p> 

2. Setelah enabling authentication pilih menu Database dan pilih create database

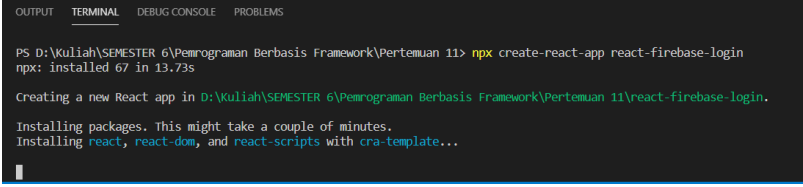
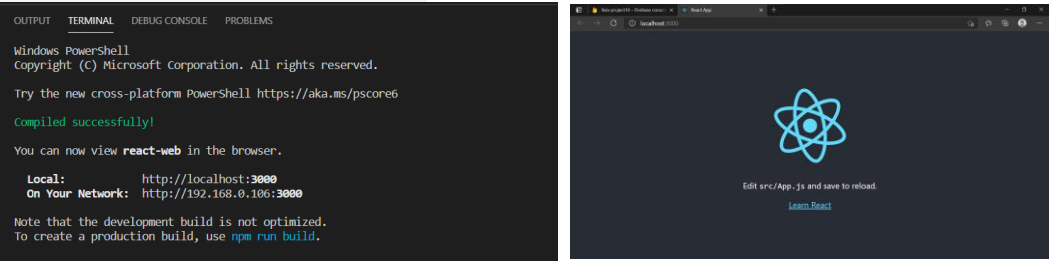
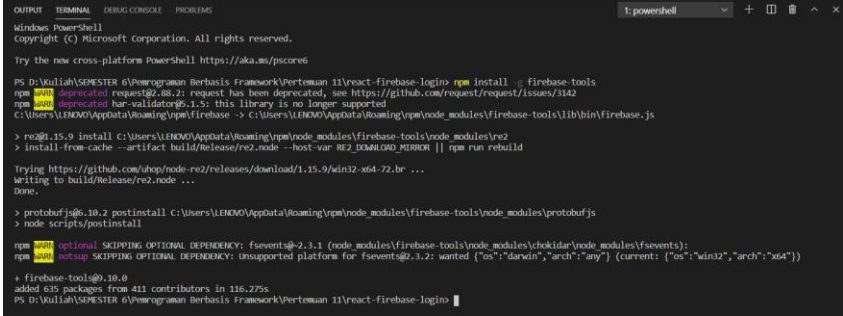


3. Select **Start in test mode**



4. Pilih Done

Setting react app dan firebase

No	Keterangan
1.	<p>Buat aplikasi baru dengan perintah</p> <pre>create-react-app your-project-name</pre> 
2.	<p>Install project baru dengan perintah</p> <pre>npm run start</pre> 
3.	<p>Install firebase</p> <pre>npm install -g firebase-tools</pre>  <p>firebase login</p> 

```
firebase init
```

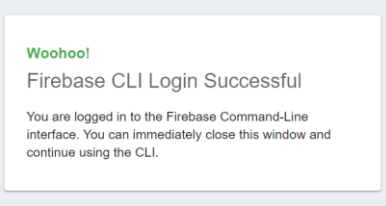
```
D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>Firebase init

#####  #####  #####  #####  ##  #####  #####
##  ##  ##  ##  ##  ##  ##  ##  ##
#####  ##  #####  #####  #####  #####  #####
##  ##  ##  ##  ##  ##  ##  ##  ##
##  #####  ##  #####  #####  ##  ##  #####  #####

You're about to initialize a Firebase project in this directory:

  D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login

? Are you ready to proceed? Yes
? Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm your choices.
  ( ) Database: Configure Firebase Realtime Database and deploy rules
  (x) Firestore: Deploy rules and create indexes for Firestore
  ( ) Functions: Configure and deploy Cloud Functions
  (x) Hosting: Configure and deploy Firebase Hosting sites
  (x) Storage: Deploy Cloud Storage security rules
  ( ) Emulators: Set up local emulators for Firebase features
  (x) Remote Config: Get, deploy, and rollback configurations for Remote Config
```

A terminal window with a dark background and light green text. The text shows the command 'firebase login' being executed, followed by a confirmation message 'You are now logged in' and a final confirmation 'Continue using Firebase CLI?' with a green checkmark. The prompt 'firebase\$' is visible at the end of the line.

```
firebase login
You are now logged in
Continue using Firebase CLI? [Y/n]
firebase$
```

- | | |
|----|---|
| 4. | Pilih setting untuk firebase nya firebase dan Hosting |
|----|---|

```
Are you ready to proceed? Yes
Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm your choices.
( ) Database: Configure Firebase Realtime Database and deploy rules
( ) Firestore: Deploy rules and create indexes for Firestore
( ) Functions: Configure and deploy Cloud Functions
( ) Hosting: Configure and deploy Firebase Hosting sites
( ) Storage: Deploy Cloud Storage security rules
( ) Emulators: Set up local emulators for Firebase features
x( ) Remote Config: Get, deploy, and rollback configurations for Remote Config
```

5. Pilih build jangan pilih Do not choose public

- | | |
|----|-------|
| 6. | Pilih |
|----|-------|

```
D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Partemuan 11\react-firebase-login\Firebase init
```

```
#####
##                               ##
##                               ##
##                               ##
##                               ##
##                               ##
#####
```

You're about to initialize a Firebase project in this directory:

```
D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Partemuan 11\react-firebase-login
```

Are you ready to proceed? Yes

Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm your choices. Firestore: Deploy rules and create indexes for Firestore; Hosting: Configure and deploy Firebase Hosting sites

=== Project Setup

First, let's associate this project directory with a Firebase project. You can create multiple project aliases by running firebase use --add, but for now we'll just set up a default project.

Please select an option: Don't set up a default project

=== Firestore Setup

Firestore Security Rules allow you to define how and when to allow requests. You can keep these rules in your project directory and publish them with firebase deploy.

What file should be used for Firestore Rules? firestore.rules

Firestore indexes allow you to perform complex queries while maintaining performance that scales with the size of the result set. You can keep index definitions in your project directory and publish them with firebase deploy.

```
What file should be used for Firestore indexes? firestore.indexes.json
```

=== Hosting Setup

Your public directory is the folder (relative to your project directory) that will contain hosting assets to be uploaded with firebase deploy. If you have a build process for your assets, use your build's output directory.

What do you want to use as your public directory? public

Configure as a single-page app (rewrite all urls to /index.html)? Yes

Set up automatic builds and deploys with GitHub? No

File public/index.html already exists. Overwrite? Yes

```
> wrote public/index.html
```

```
i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
> Firebase initialization complete!
```

```
D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Partemuan 11\react-firebase-login>
```

7. Untuk membangun firebase npm run build

```
D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>npm run build
> react-web@0.1.0 build D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login
> react-scripts build

Creating an optimized production build...
Compiled successfully.

File sizes after gzip:

41.33 KB  build/static/js/2.ad5bc835.chunk.js
1.59 KB   build/static/js/3.91e93fcd.chunk.js
1.17 KB   build/static/js/runtime-main.f6d751a5.js
592 B     build/static/js/main.c61e0218.chunk.js
531 B     build/static/css/main.8c8b27cf.chunk.css

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.
You may serve it with a static server:

  npm install -g serve
  serve -s build

Find out more about deployment here:

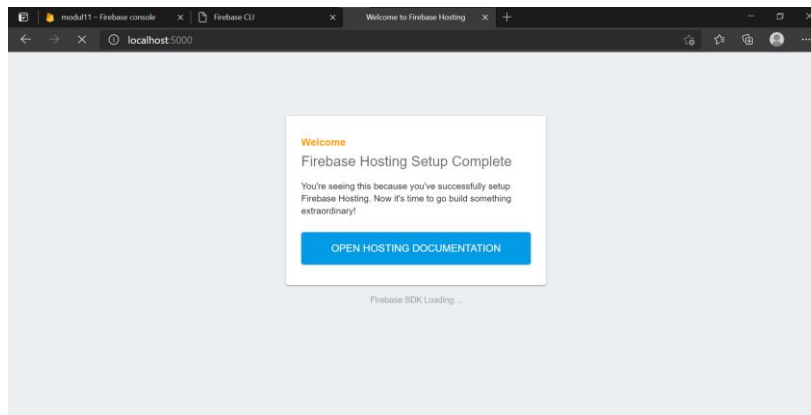
  https://cra.link/deployment

D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>
```

Firebase serve

```
D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>firebase serve
=== Serving from 'D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login'...

i hosting: Serving hosting files from: public
+ hosting: Local server: http://localhost:5000
```



Instalasi Redux

No	Keterangan
1.	<p>Install Redux dan react redux, redux thunk</p> <pre>npm install redux</pre> <pre>PS D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login> npm install redux npm WARN tsutils@3.20.0 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 >= 3.7.0-dev >= 3.7.0-beta but none is installed. You must install peer dependencies yourself. npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) + redux@4.1.0 added 1 package and audited 1942 packages in 34.56s 127 packages are looking for funding run `npm fund` for details found 1 moderate severity vulnerability run `npm audit fix` to fix them, or `npm audit` for details PS D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login></pre>

npm install react-redux

```
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login> npm install react-redux
npm WARN tsutils@3.20.0 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-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-redux@7.2.4
added 8 packages from 52 contributors and audited 1950 packages in 36.829s

127 packages are looking for funding
  run `npm fund` for details

found 1 moderate severity vulnerability
  run `npm audit fix` to fix them, or `npm audit` for details
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>
```

npm install redux-thunk

```
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login> npm install redux-thunk
npm WARN tsutils@3.20.0 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-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ redux-thunk@2.3.0
added 1 package from 1 contributor and audited 1952 packages in 27.836s

127 packages are looking for funding
  run `npm fund` for details

found 1 moderate severity vulnerability
  run `npm audit fix` to fix them, or `npm audit` for details
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>
```

npm install react-router-dom

```
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login> npm install react-router-dom
npm WARN tsutils@3.20.0 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-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.2.0
added 10 packages from 5 contributors and audited 1962 packages in 30.545s

127 packages are looking for funding
  run `npm fund` for details

found 1 moderate severity vulnerability
  run `npm audit fix` to fix them, or `npm audit` for details
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>
```

2. Install firebase

```
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login> npm install firebase
> core-js@3.6.5 postinstall D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login\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 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 -)

> protobufjs@6.10.2 postinstall D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login\node_modules\protobufjs
> node scripts/postinstall

npm WARN tsutils@3.20.0 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-beta || >= 3.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

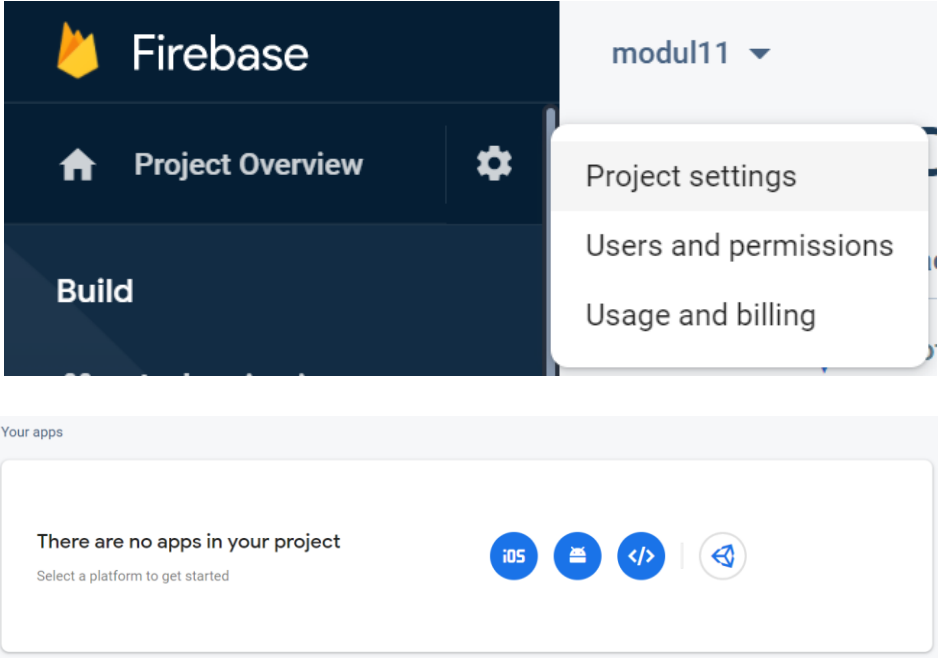
+ firebase@8.4.2
added 83 packages from 69 contributors and audited 2045 packages in 58.211s

128 packages are looking for funding
  run `npm fund` for details

found 1 moderate severity vulnerability
  run `npm audit fix` to fix them, or `npm audit` for details
PS D:\Kulia\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 11\react-firebase-login>
```

3.	<p>Pilih UI library</p> <pre> PS D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Portemuan 11\react-firebase-login> npm install @material-ui/core npm WARN tsutils@3.20.0 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 >= 3.7.0-dev >= 3.7.0-beta but none is installed. You must install peer dependencies yourself. npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) + @material-ui/core@4.11.3 added 26 packages from 19 contributors and audited 2071 packages in 119.522s 132 packages are looking for funding run `npm fund` for details found 1 moderate severity vulnerability run `npm audit fix` to fix them, or `npm audit` for details PS D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Portemuan 11\react-firebase-login> </pre>
4.	<p>Paste kan file public/index.html</p> <pre> index.html X public > index.html > html > head 1 <!DOCTYPE html> 2 <html> 3 <head> 4 <meta charset="utf-8"> 5 <meta name="viewport" content="width=device-width, initial-scale=1"> 6 <title>Welcome to Firebase Hosting</title> 7 8 <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Roboto:300,400,500&display=swap" /> 9 </pre>
5.	<p>Install material icon</p> <pre> PS D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Portemuan 11\react-firebase-login> npm install @material-ui/icons npm WARN tsutils@3.20.0 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-beta >= 3.7.0-dev >= 3.7.0-beta but none is installed. You must install peer dependencies yourself. npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) + @material-ui/icons@4.11.2 added 1 package from 1 contributor and audited 2072 packages in 48.916s 132 packages are looking for funding run `npm fund` for details found 1 moderate severity vulnerability run `npm audit fix` to fix them, or `npm audit` for details PS D:\KuliaH\SEMESTER 6\Pemrograman Berbasis Framework\Portemuan 11\react-firebase-login> </pre>

Setting firebase config

No	Keterangan
1.	

	<div> <div> <div>×</div> <div>Add Firebase to your web app</div> </div> <div> <div>1 Register app</div> <div> <div>App nickname ⓘ</div> <div>firebase-login-app</div> </div> <div> <input checked="" type="checkbox"/> Also set up Firebase Hosting for this app. Learn more ⓘ <small>Hosting can also be set up later. It's free to get started anytime.</small> </div> <div> <div>modul11-c0ca5 (No deploys yet)</div> </div> <div>Register app</div> </div> </div>
2.	<div> <div>Pilih config</div> <div> <div>Firebase SDK snippet</div> <div> <input type="radio"/> Automatic ⓘ <input type="radio"/> CDN ⓘ <input checked="" type="radio"/> Config ⓘ </div> </div> </div>
3.	<div> <div>Edit firebase/firebase.js</div> <div> <div> <div>index.html ×</div> <div>JS firebase.js 1 ×</div> </div> <div> <div>src > firebase > JS firebase.js > [0] firebaseConfig</div> <div> <div>1 import firebase from "firebase/app";</div> <div>2 import "firebase/auth";</div> <div>3 import "firebase/firestore";</div> <div>4</div> <div>5 const firebaseConfig = {</div> <div>6 apiKey: "AIzaSyBwDOZnLUHnfwksqH23ZeBlZB5sX5TH_w8",</div> <div>7 authDomain: "modul11-c0ca5.firebaseio.com",</div> <div>8 databaseURL: "https://modul11-c0ca5-default-rtdb.firebaseio.com",</div> <div>9 projectId: "modul11-c0ca5",</div> <div>10 storageBucket: "modul11-c0ca5.appspot.com",</div> <div>11 messagingSenderId: "98117289279",</div> <div>12 appId: "1:98117289279:web:601bb6f96889741658ff8a",</div> <div>13 measurementId: "G-C1W2F1ZRRS",</div> <div>14 };</div> <div>15</div> <div>16 export const myFirebase = firebase.initializeApp(firebaseConfig);</div> <div>17 const baseDb = myFirebase.firestore();</div> <div>18 export const db = baseDb;</div> <div>19</div> </div> </div> </div> </div>
4.	<div> <div>Edit actions/auth.js</div> <div> <div> <div>index.html</div> <div>JS firebase.js</div> <div>JS auth.js 3 ×</div> </div> <div> <div>src > actions > JS auth.js > ...</div> <div> <div>1 import { myFirebase } from "../firebase/firebase";</div> <div>2</div> <div>3 export const LOGIN_REQUEST = "LOGIN_REQUEST";</div> <div>4 export const LOGIN_SUCCESS = "LOGIN_SUCCESS";</div> <div>5 export const LOGIN_FAILURE = "LOGIN_FAILURE";</div> <div>6</div> <div>7 export const LOGOUT_REQUEST = "LOGOUT_REQUEST";</div> <div>8 export const LOGOUT_SUCCESS = "LOGOUT_SUCCESS";</div> <div>9 export const LOGOUT_FAILURE = "LOGOUT_FAILURE";</div> <div>10</div> <div>11 export const VERIFY_REQUEST = "VERIFY_REQUEST";</div> <div>12 export const VERIFY_SUCCESS = "VERIFY_SUCCESS";</div> </div> </div> </div> </div>

5. user requesting to login masih dalam actions/auth.js

```

14 const requestLogin = () => {
15   return {
16     type: LOGIN_REQUEST
17   };
18 };
19
20 const receiveLogin = user => {
21   return {
22     type: LOGIN_SUCCESS,
23     user
24   };
25 };
26
27 const loginError = () => {
28   return {
29     type: LOGIN_FAILURE
30   };
31 };

```

6. edit loginUser()

```

33 const requestLogout = () => {
34   return {
35     type: LOGOUT_REQUEST
36   };
37 };
38
39 const receiveLogout = () => {
40   return {
41     type: LOGOUT_SUCCESS
42   };
43 };
44
45 const logoutError = () => {
46   return {
47     type: LOGOUT_FAILURE
48   };
49 };
50
51 const verifyRequest = () => {
52   return {
53     type: VERIFY_REQUEST
54   };
55 };
56
57 const verifySuccess = () => {
58   return {
59     type: VERIFY_SUCCESS
60   };
61 };
62
63 export const loginUser = (email, password) => dispatch => {
64   dispatch(requestLogin());
65   myFirebase
66     .auth()
67     .signInWithEmailAndPassword(email, password)
68     .then(user => {
69       dispatch(receiveLogin(user));
70     })
71     .catch(error => {
72       //Do something with the error if you want!
73       dispatch(loginError());
74     });
75 };
76
77 export const logoutUser = () => dispatch => {
78   dispatch(requestLogout());
79   myFirebase
80     .auth()
81     .signOut()
82     .then(() => {
83       dispatch(receiveLogout());
84     })
85     .catch(error => {
86       //Do something with the error if you want!
87       dispatch(logoutError());
88     });
89 };
90
91 export const verifyAuth = () => dispatch => {
92   dispatch(verifyRequest());
93   myFirebase.auth().onAuthStateChanged(user => {
94     if (user !== null) {
95       dispatch(receiveLogin(user));
96     }
97     dispatch(verifySuccess());
98   });
99 };

```

Setting reducer

No	Keterangan
1.	<p>Buka reducers/auth.js</p> <pre> 1 import { 2 LOGIN_REQUEST, 3 LOGIN_SUCCESS, 4 LOGIN_FAILURE, 5 LOGOUT_REQUEST, 6 LOGOUT_SUCCESS, 7 LOGOUT_FAILURE, 8 VERIFY_REQUEST, 9 VERIFY_SUCCESS, 10 } from "../actions/"; 11 12 export default (13 state = { 14 isLoggingIn: false, 15 isLoggingOut: false, 16 isVerifying: false, 17 loginError: false, 18 logoutError: false, 19 isAuthenticated: false, 20 user: {}, 21 }, 22 action 23) => { 24 switch (action.type) { 25 case LOGIN_REQUEST: 26 return { 27 ...state, 28 isLoggingIn: true, 29 loginError: false, 30 }; 31 case LOGIN_SUCCESS: 32 return { 33 ...state, 34 isLoggingIn: false, 35 isAuthenticated: true, 36 user: action.user, 37 }; 38 case LOGIN_FAILURE: 39 return { 40 ...state, 41 isLoggingIn: false, 42 isAuthenticated: false, 43 loginError: true, 44 }; 45 case LOGOUT_REQUEST: 46 return { 47 ...state, 48 isLoggingOut: true, 49 logoutError: false, 50 }; 51 case LOGOUT_SUCCESS: 52 return { 53 ...state, 54 isLoggingOut: false, 55 isAuthenticated: false, 56 user: {}, 57 }; 58 case LOGOUT_FAILURE: 59 return { 60 ...state, 61 isLoggingOut: false, 62 logoutError: true, 63 }; 64 case VERIFY_REQUEST: 65 return { 66 ...state, 67 isVerifying: true, 68 verifyingError: false, 69 }; 70 case VERIFY_SUCCESS: 71 return { 72 ...state, 73 isVerifying: false, 74 }; 75 default: 76 return state; 77 } 78 } </pre>
2.	<p>Edit reducers/index.js</p> <pre> src > reducers > JS index.js > ... 1 import { combineReducers } from "redux"; 2 import auth from "../auth"; 3 export default combineReducers({ auth }); 4 </pre>
3.	Setting Redux plumbing

4. Pilih src folder called **configureStore.js** dan edit

```
src > JS configureStore.js > ...
1 import { applyMiddleware, createStore } from "redux";
2 import thunkMiddleware from "redux-thunk";
3 import { verifyAuth } from "../actions/";
4 import rootReducer from "../reducers";
5
6 export default function configureStore(persistedState) {
7   const store = createStore(
8     rootReducer,
9     persistedState,
10    applyMiddleware(thunkMiddleware)
11  );
12  store.dispatch(verifyAuth());
13  return store;
14 }
15
```

5. Pilih dan edit folder src dan root.js

```
src > JS root.js > ...
1 import React from "react";
2 import { Provider } from "react-redux";
3 import { BrowserRouter as Router } from "react-router-dom";
4 import App from "../App";
5 import configureStore from "../configureStore";
6 const store = configureStore();
7 function Root() {
8   return (
9     <Provider store={store}>
10       <Router>
11         <App />
12       </Router>
13     </Provider>
14   );
15 }
16 export default Root;
17
```

6. Pilih dan edit folder src/index.js

```
src > JS index.js
1 import React from "react";
2 import ReactDOM from "react-dom";
3 import Root from "../Root";
4
5 import * as serviceWorker from "../serviceWorker";
6 ReactDOM.render(<Root />, document.getElementById("root"));
7 // If you want your app to work offline and load faster, you can change
8 // unregister() to register() below. Note this comes with some pitfalls.
9 // Learn more about service workers: https://bit.ly/CRA-PWA
10 serviceWorker.unregister();
11
```

7. Buat lah coding App.js

```
src > JS App.js > ...
1 import React from "react";
2 import { Route, Switch } from "react-router-dom";
3 import { connect } from "react-redux";
4 import ProtectedRoute from "../components/ProtectedRoute";
5 import Home from "../components/Home";
6 import Login from "../components/Login";
7
8 function App(props) {
9   const { isAuthenticated, isVerifying } = props;
10   return (
11     <Switch>
12       <ProtectedRoute
13         exact
14         path="/"
15         component={Home}
16         isAuthenticated={isAuthenticated}
17         isVerifying={isVerifying}
18       />
19       <Route path="/login" component={Login} />
20     </Switch>
21   );
22 }
23
24 function mapStateToProps(state) {
25   return {
26     isAuthenticated: state.auth.isAuthenticated,
27     isVerifying: state.auth.isVerifying,
28   };
29 }
30
31 export default connect(mapStateToProps)(App);
32
```

8. Buatlah file dan simpan **components/Login.js**

```
src > components > JS Login.js > default
1  import React, { Component } from "react";
2  import { connect } from "react-redux";
3  import { Redirect } from "react-router-dom";
4  import { loginUser } from "../actions";
5  import { withStyles } from "@material-ui/styles";
6  import Avatar from "@material-ui/core/Avatar";
7  import Button from "@material-ui/core/Button";
8  import TextField from "@material-ui/core/TextField";
9  import LockOutlinedIcon from "@material-ui/icons/LockOutlined";
10 import Typography from "@material-ui/core/Typography";
11 import Paper from "@material-ui/core/Paper";
12 import Container from "@material-ui/core/Container";
13
14 const styles = () => ({
15   "@global": {
16     body: {
17       backgroundColor: "#fff"
18     }
19   },
20   paper: {
21     marginTop: 100,
22     display: "flex",
23     padding: 20,
24     flexDirection: "column",
25     alignItems: "center"
26   },
27   avatar: {
28     marginLeft: "auto",
29     marginRight: "auto",
30     backgroundColor: "#f50057"
31   },
32   form: {
33     marginTop: 1
34   },
35   errorText: {
36     color: "#f50057",
37     marginBottom: 5,
38     textAlign: "center"
39   }
40 });
41
42 class Login extends Component {
43   state = { email: "", password: "" };
44   handleEmailChange = ({ target }) => {
45     this.setState({ email: target.value });
46   };
47   handlePasswordChange = ({ target }) => {
48     this.setState({ password: target.value });
49   };
50   handleSubmit = () => {
51     const { dispatch } = this.props;
52     const { email, password } = this.state;
53     dispatch(loginUser(email, password));
54   };
55   render() {
56     const { classes, loginError, isAuthenticated } = this.props;
57     if (isAuthenticated) {
58       return <Redirect to="/" />;
59     } else {
60       return (
61         <Container component="main" maxWidth="xs">
62           <Paper className={classes.paper}>
63             <Avatar className={classes.avatar}>
64               <LockOutlinedIcon />
65             </Avatar>
66             <Typography component="h1" variant="h5">
67               Sign in
68             </Typography>
69             <TextField
70               variant="outlined"
71               margin="normal"
72               fullWidth
73               id="email"
74               label="Email Address"

```

```

75         name="email"
76         onChange={this.handleEmailChange}
77
78     />
79
80     <TextField
81       variant="outlined"
82       margin="normal"
83       fullWidth
84       name="password"
85       label="Password"
86       type="password"
87       id="password"
88       onChange={this.handlePasswordChange}
89     />
90
91     {loginError && (
92       <Typography component="p" className={classes.errorText}>
93         Incorrect email or password.
94       </Typography>
95     )}
96     <Button
97       type="button"
98       fullWidth
99       variant="contained"
100      color="primary"
101      className={classes.submit}
102      onClick={this.handleSubmit}
103    >
104      Sign In
105    </Button>
106  </Paper>
107 </Container>
108 );
109 }
110 }
111 }
112
113 function mapStateToProps(state) {
114   return {
115     isLoggingIn: state.auth.isLoggingIn,
116     loginError: state.auth.loginError,
117     isAuthenticated: state.auth.isAuthenticated
118   };
119 }
120
121 export default withStyles(styles)(connect(mapStateToProps)(Login));

```

9. Buka component/Home.js

```

src > components > JS Home.js > ...
1  import React, { Component } from "react";
2  import { connect } from "react-redux";
3  import { logoutUser } from "../actions";
4  class Home extends Component {
5    handleLogout = () => {
6      const { dispatch } = this.props;
7      dispatch(logoutUser());
8    };
9    render() {
10     const { isLoggingOut, logoutError } = this.props;
11     return (
12       <div>
13         <h1>This is your app's protected area.</h1>
14         <p>Any routes here will also be protected</p>
15         <button onClick={this.handleLogout}>Logout</button>
16         {isLoggingOut && <p>Logging Out....</p>}
17         {logoutError && <p>Error logging out</p>}
18       </div>
19     );
20   }
21 }
22 function mapStateToProps(state) {
23   return {
24     isLoggingOut: state.auth.isLoggingOut,
25     logoutError: state.auth.logoutError,
26   };
27 }
28 export default connect(mapStateToProps)(Home);
29

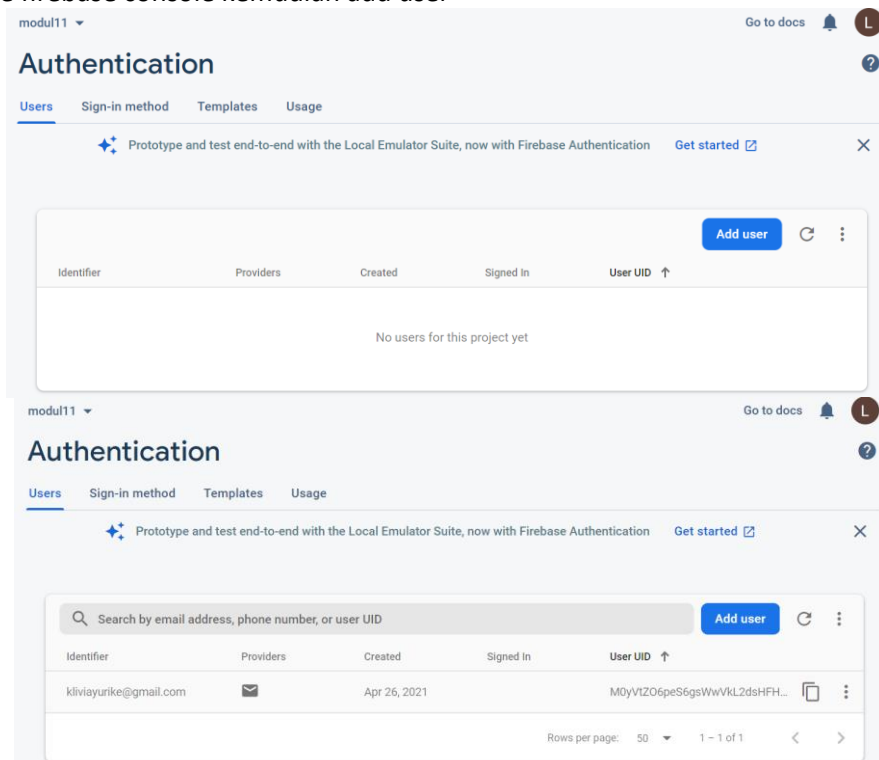
```


10. Buatfile dalam folder /src/component/ dengan nama protectedRoute.js

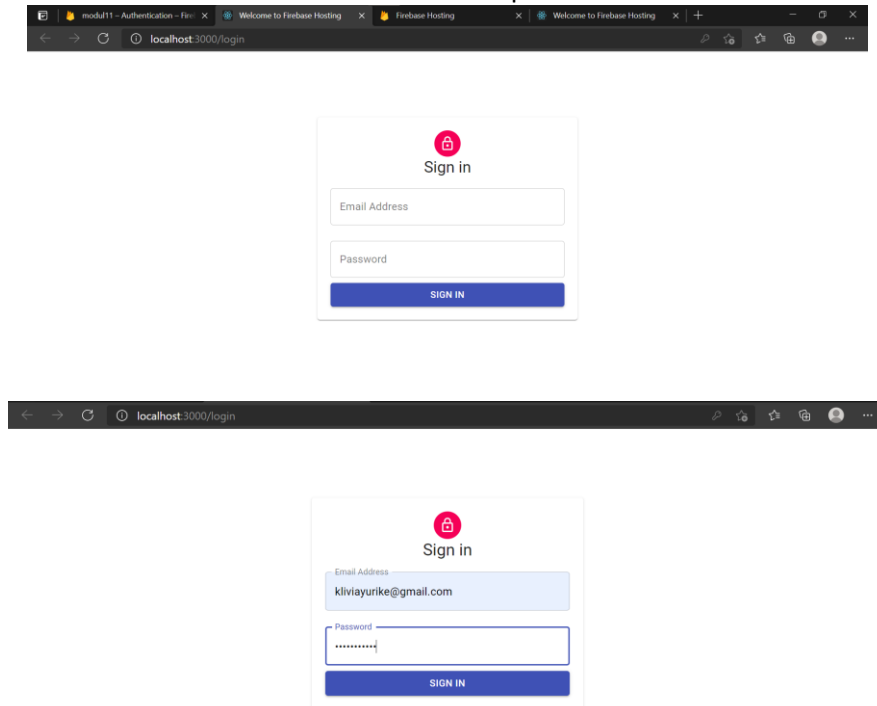
```
src > components > JS protectedRoute.js
1  import React from "react";
2  import { Route, Redirect } from "react-router-dom";
3  const ProtectedRoute = ({
4    component: Component,
5    isAuthenticated,
6    isVerifying,
7    ...rest
8  }) => (
9    <Route
10     {...rest}
11     render={((props) =>
12       isVerifying ? (
13         <div />
14       ) : isAuthenticated ? (
15         <Component {...props} />
16       ) : (
17         <Redirect
18           to={{
19             pathname: "/login",
20             state: { from: props.location },
21           }}
22         />
23       )
24     )}
25   />
26 );
27 export default ProtectedRoute;
28
```

11. Running start

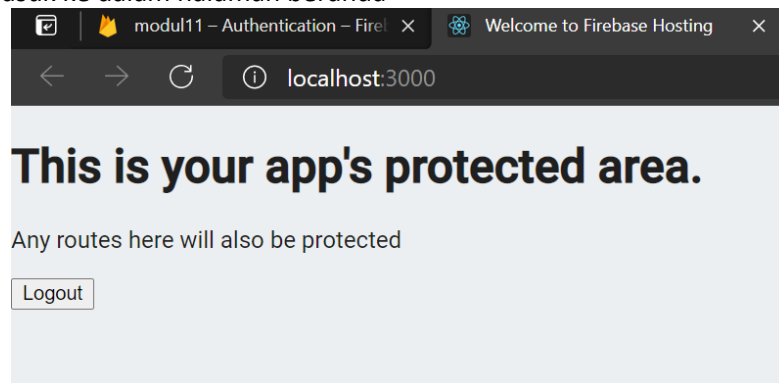
12. Masuk ke firebase console kemudian add user



13. Pilih **npm start** kemudian masukkan username dan password



14. Kemudian masuk ke dalam halaman beranda



Link Github :

<https://github.com/liviayurike/Pemrograman-Berbasis-Framework/tree/master/Pertemuan%2011>

Link Video Youtube :

https://youtu.be/NqLQ_jX_NYg