

TUGAS PERORANGAN/INDIVIDU
LAPORAN TUGAS MINGGU KE 12

MODUL 11 : Firebase Login

Disusun Sebagai:

MATA KULIAH: PEMROGRAMAN BERBASIS FRAMEWORK

Oleh:

Meutia Khanandiya/1741720163

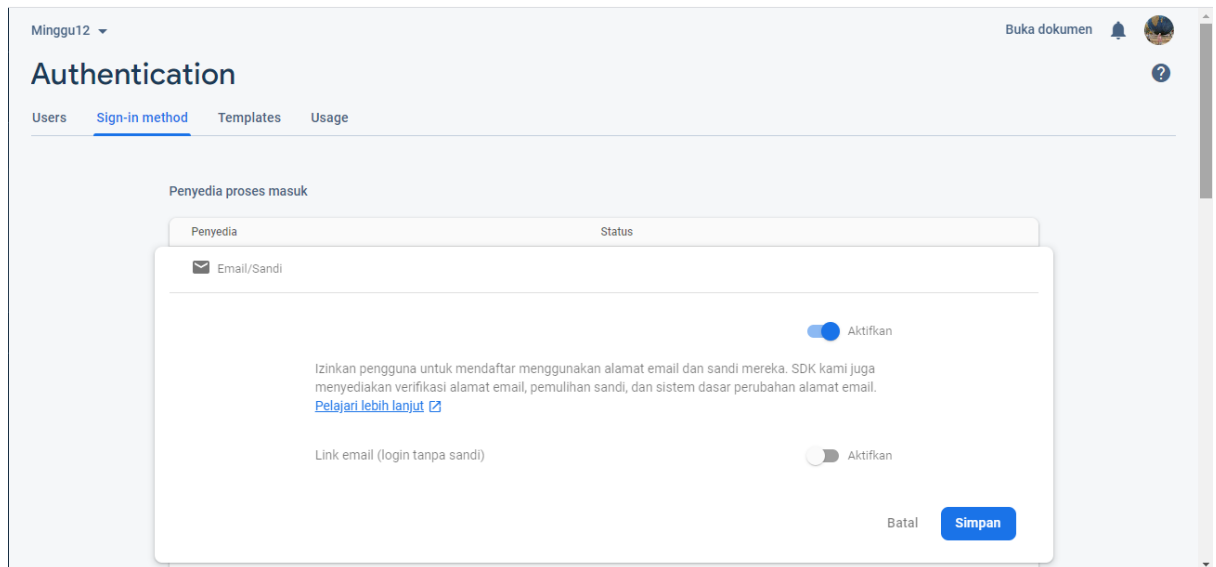
TI-3B



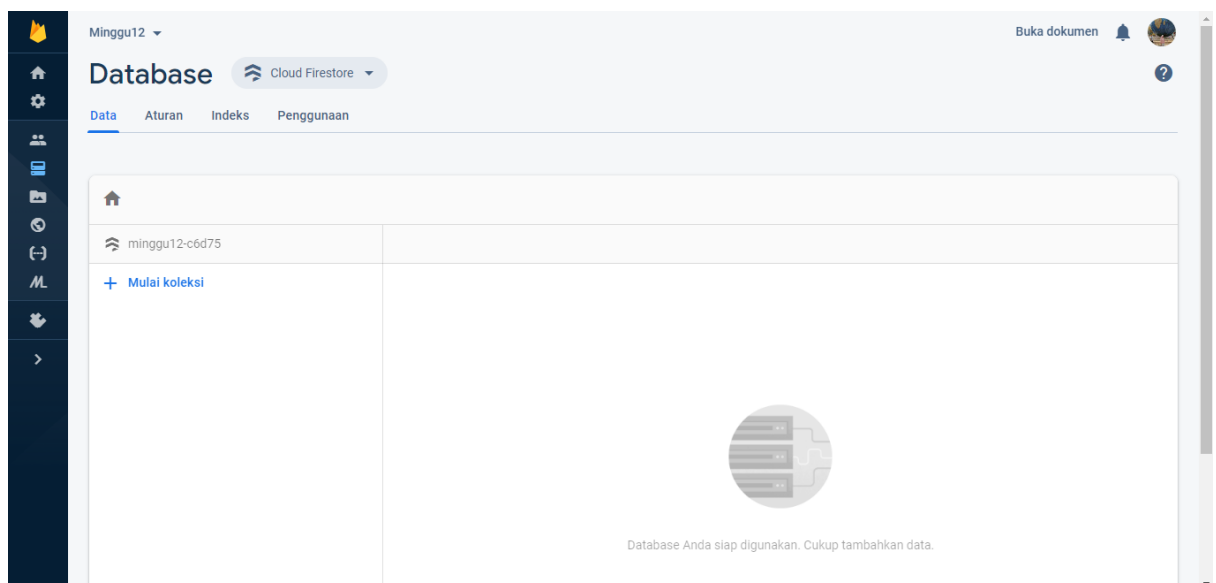
PROGRAM STUDI D4 TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2020

LANGKAH

- ✓ **Step 1 : Setting Firebase Console**
Login ke firebase console dan add a new project. Pilih authentication dan pilih tab menu **Set up sign in method**



- ✓ Setelah enabling authentication pilih menu Database dan pilih create database
 - Select Start in test mode.
 - Pilih Done.



- Proses Membuat Database berhasil.

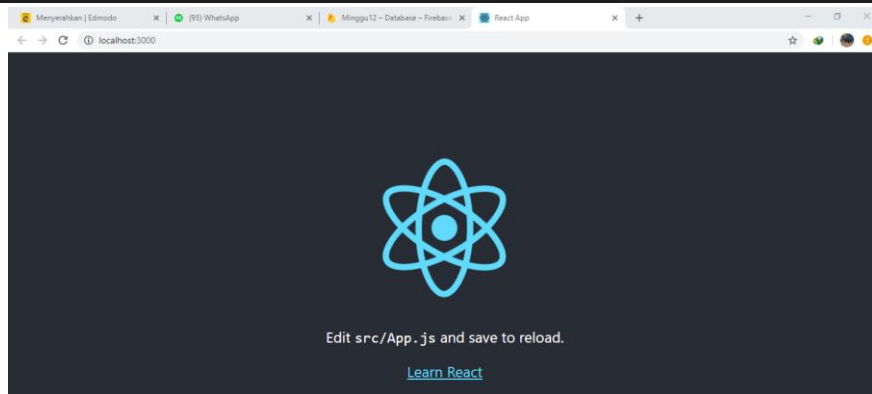
✓ Setting react app dan firebase

- Buat aplikasi baru dengan perintah

```
F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF>create-react-app minggu12  
Creating a new React app in F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF\minggu12.
```

- Install project baru dengan perintah

```
PS F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF\minggu12> npm start  
> minggu12@0.1.0 start F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF\minggu12  
> react-scripts start
```



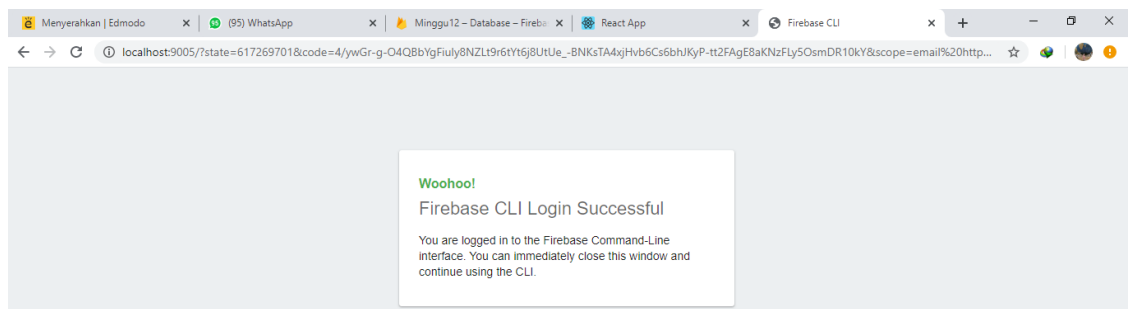
- Install firebase

```
PS F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF\minggu12> npm install -g firebase-tools
```

- Firebase Login

```
PS F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF\minggu12> firebase login  
i Firebase optionally collects CLI usage and error reporting information to help improve our products. Data is collected in accordance with Google's privacy policy (https://policies.google.com/privacy) and is not used to identify you.  
  
? Allow Firebase to collect CLI usage and error reporting information? Yes  
i To change your data collection preference at any time, run 'firebase logout' and log in again.  
  
Visit this URL on this device to log in:  
https://accounts.google.com/o/oauth2/auth?client_id=563584335869-fgrhgm47bqnekij5i8b5pr03ho849e6.apps.googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform&response_type=code&state=617269701&redirect_uri=http%3A%2F%2Flocalhost%3A9005  
  
Waiting for authentication...  
  
+ Success! Logged in as khandyam@gmail.com
```

Proses Berhasil



- Firebase Init
- Pilih setting untuk Firebase dan Hosting
 - Pilih build jangan pilih Do not choose public
 - Menjalankan Step seperti gambar berikut :

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12> firebase init
```

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

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

```
F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12
```

```
? 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: Deploy Firebase Realtime Database 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
```

```
F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12
```

```
? 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: Use an existing project
? Select a default Firebase project for this directory: minggu12-c6d75 (Minggu12)
i Using project minggu12-c6d75 (Minggu12)
```

=== 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
? 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!
```

- Membangun Firebase

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12> npm run build

> minggu12@0.1.0 build
F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12
> react-scripts build

Creating an optimized production build...
Compiled successfully.

File sizes after gzip:

  39.39 KB   build\static\js\2.563692aa.chunk.js
    770 B    build\static\js\runtime-main.1a9eb705.js
    645 B    build\static\js\main.c0bc1ac8.chunk.js
    556 B    build\static\css\main.d1b05096.chunk.css

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

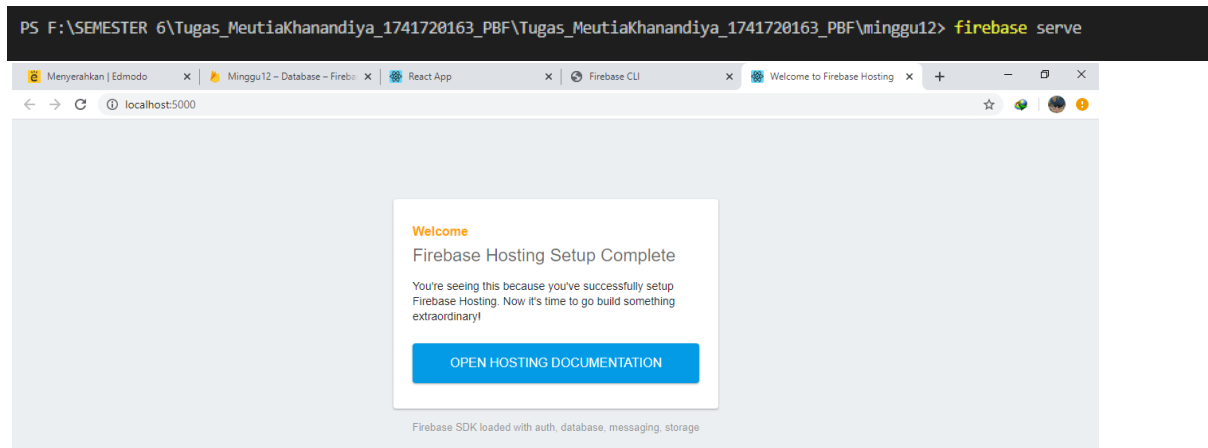
The build folder is ready to be deployed.
You may serve it with a static server:

  npm install -g serve
  serve -s build

Find out more about deployment here:

  bit.ly/CRA-deploy
```

- Firebase serve



- ✓ Instalasi Redux
- ✓ Install Redux dan react redux, redux thunk

- Npm install redux

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12> npm install redux
npm WARN react-scripts@3.4.1 requires a peer of typescript@^3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 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@2.1.2 (node_modules\fsevents):
npm WARN arch:"x64")
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ redux@4.0.5
added 2 packages from 1 contributor and audited 931405 packages in 27.932s
found 0 vulnerabilities
```

- Npm install redux-thunk

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12> npm install redux-thunk
npm WARN react-scripts@3.4.1 requires a peer of typescript@>3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 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.
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ redux-thunk@2.3.0
added 1 package from 1 contributor and audited 931406 packages in 20.103s
found 0 vulnerabilities
```

- Npm install react-router-dom

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12> npm install react-router-dom
npm WARN react-scripts@3.4.1 requires a peer of typescript@>3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 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.
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.1.2
added 12 packages from 6 contributors and audited 931458 packages in 20.878s
found 0 vulnerabilities
```

- Install firebase dengan perintah npm install firebase

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12> npm install firebase

> protobufjs@6.9.0 postinstall F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\Tugas_Meutiakhanandiya_1741720163_PBF\minggu12\node_modules\p
rotobufjs
> node scripts/postinstall

npm WARN react-scripts@3.4.1 requires a peer of typescript@>3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 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.
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ firebase@7.14.1
added 54 packages from 17 contributors and audited 931642 packages in 127.525s
found 0 vulnerabilities
```

- Pilih UI library
Npm install @material-ui/core

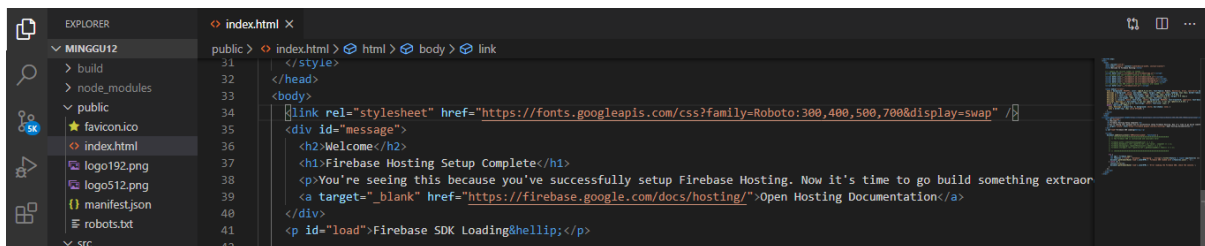
```

PS F:\SEMESTER 6\Tugas_MertuaKhanandiya.1741720163_PBF\Tugas_MertuaKhanandiya.1741720163_PBF\mingui2> npm install @material-ui/core
npm WARN deprecated popper.js@1.16.1: You can find the new Popper v2 at @popperjs/core, this package is dedicated to the legacy v1
npm WARN react-scripts@3.4.1 requires a peer of typescript@>3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
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npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 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.
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npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ @material-ui/core@4.9.11
added 23 packages from 13 contributors and audited 931812 packages in 32.923s
found 0 vulnerabilities

```

- Paste kan file public/index.html
`<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Roboto:300,400,500,700&display=swap" />`

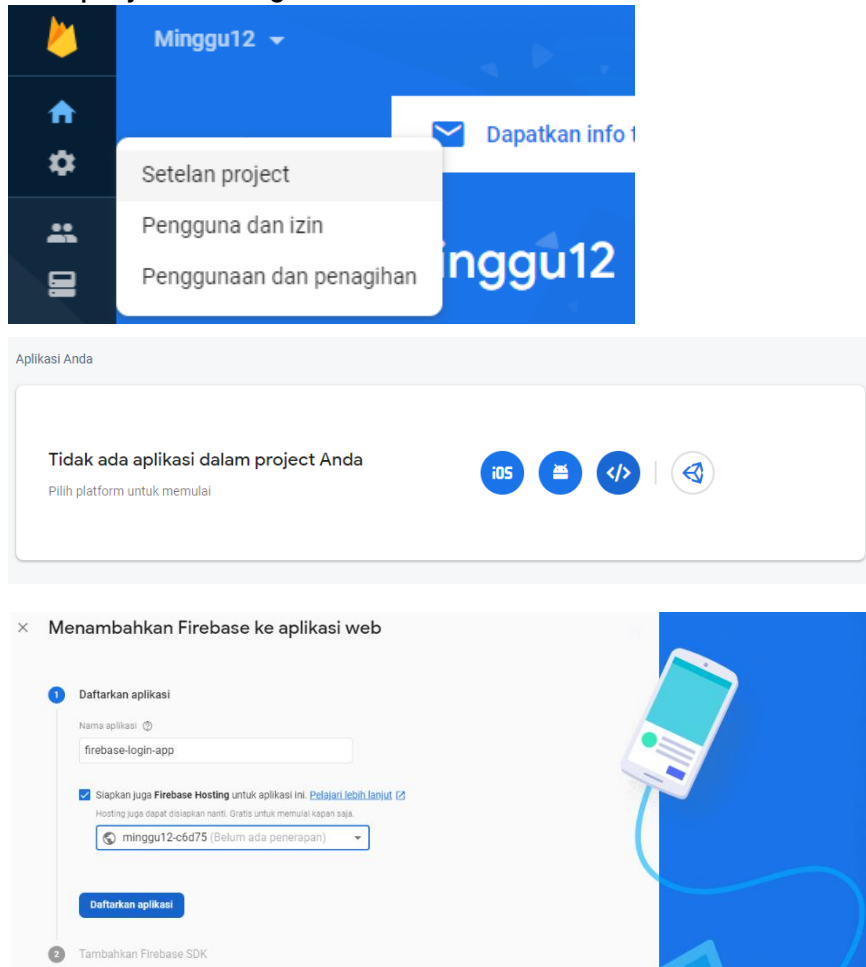


- Install material icon

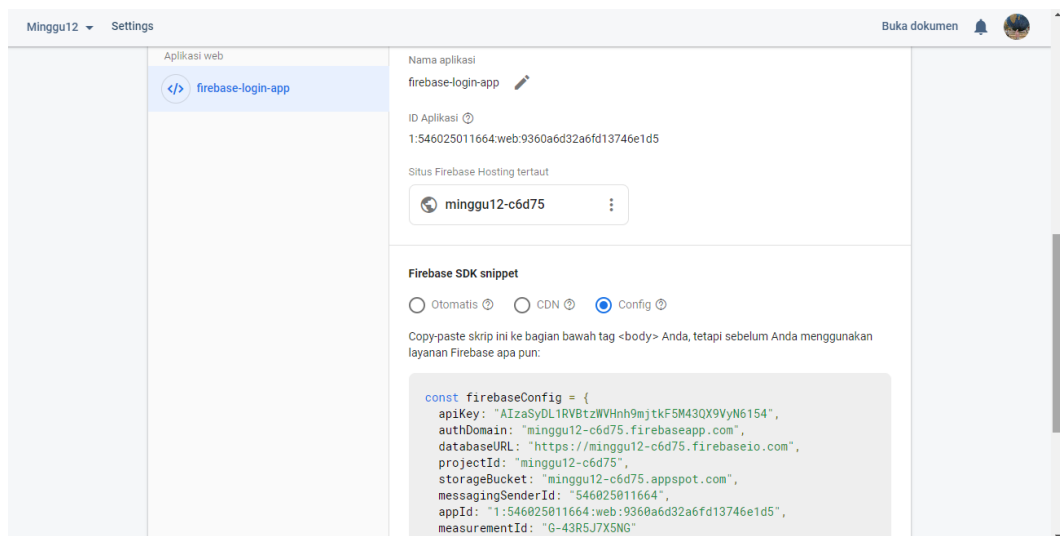
```
PS F:\SEMESTER 6\Tugas_MeutiaKhanandiya_1741720163_PBF\Tugas_MeutiaKhanandiya_1741720163_PBF\mingui2> npm install @material-ui/icons
npm WARN react-scripts@3.4.1 requires a peer of typescript@>3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@*4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies yourself.
npm WARN tsutils@3.17.1 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.
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npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\watchpack\node_modules\fsevents):
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npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
+ @material-ui/icons@4.9.1
added 1 package from 1 contributor and audited 931815 packages in 38.527s
found 0 vulnerabilities
```

✓ Setting firebase config

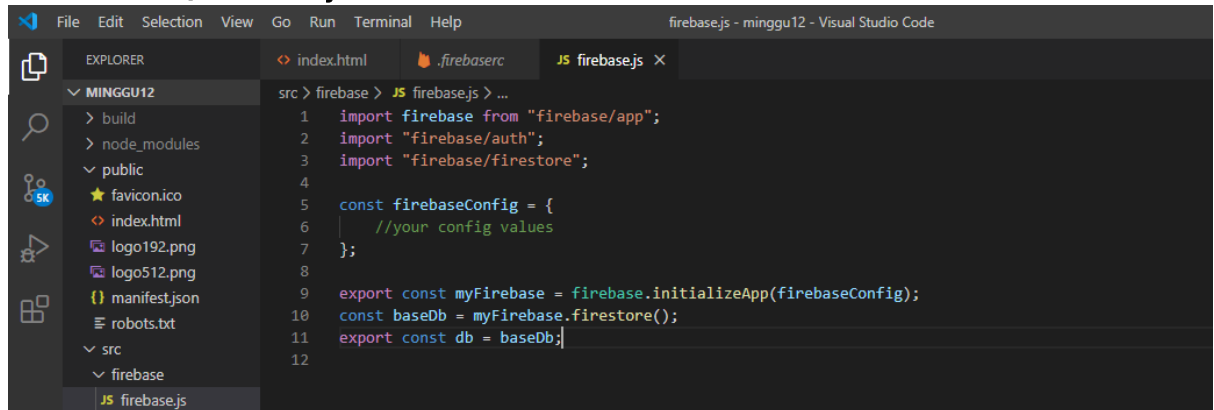
- Pilih project setting



- Pilih config



- Edit firebase/firebase.js



```
File Edit Selection View Go Run Terminal Help
firebase.js - minggu12 - Visual Studio Code

EXPLORER
MINGGU12
  build
  node_modules
  public
    favicon.ico
    index.html
    logo192.png
    logo512.png
    manifest.json
    robots.txt
  src
    firebase
      JS firebase.js

src > firebase > JS firebase.js > ...
1 import firebase from "firebase/app";
2 import "firebase/auth";
3 import "firebase/firestore";
4
5 const firebaseConfig = {
6   //your config values
7 };
8
9 export const myFirebase = firebase.initializeApp(firebaseConfig);
10 const baseDb = myFirebase.firestore();
11 export const db = baseDb;
```

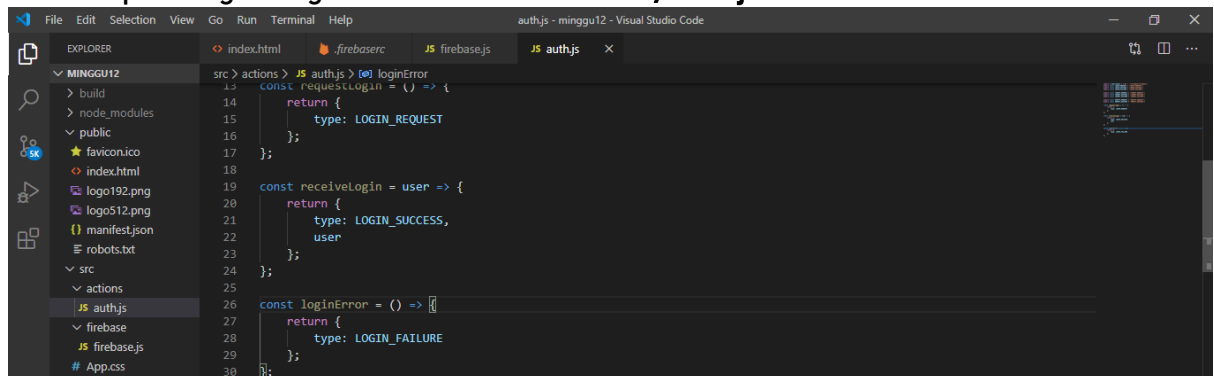
- Edit actions/auth.js



```
EXPLORER
MINGGU12
  build
  node_modules
  public
    favicon.ico
    index.html
    logo192.png
    logo512.png
    manifest.json
    robots.txt
  src
    actions
      JS auth.js

src > actions > JS auth.js > ...
1 import { myFirebase } from "../firebase/firebase";
2 export const LOGIN_REQUEST = "LOGIN_REQUEST";
3 export const LOGIN_SUCCESS = "LOGIN_SUCCESS";
4 export const LOGIN_FAILURE = "LOGIN_FAILURE";
5
6 export const LOGOUT_REQUEST = "LOGOUT_REQUEST";
7 export const LOGOUT_SUCCESS = "LOGOUT_SUCCESS";
8 export const LOGOUT_FAILURE = "LOGOUT_FAILURE";
9
10 export const VERIFY_REQUEST = "VERIFY_REQUEST";
11 export const VERIFY_SUCCESS = "VERIFY_SUCCESS";
12
```

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



```
File Edit Selection View Go Run Terminal Help
auth.js - minggu12 - Visual Studio Code

EXPLORER
MINGGU12
  build
  node_modules
  public
    favicon.ico
    index.html
    logo192.png
    logo512.png
    manifest.json
    robots.txt
  src
    actions
      JS auth.js
    firebase
      JS firebase.js
    App.css

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

- edit loginUser()

The top screenshot shows the initial state of `auth.js` in the `src > actions` directory. It contains three functions: `requestLogout`, `receiveLogout`, and `loginError`. The bottom screenshot shows the same file after editing, now containing `loginUser`, `logoutUser`, and `verifyUser` functions. The `loginUser` function uses `firebase.auth().signInWithEmailAndPassword` and dispatches `requestLogin`, `receiveLogin`, and `loginError`. The `logoutUser` function uses `firebase.auth().signOut` and dispatches `requestLogout` and `logoutError`. The `verifyUser` function uses `firebase.auth().onAuthStateChanged` and dispatches `verifyRequest` and `verifySuccess`.

```

31
32 const requestLogout = () => {
33   return {
34     type: LOGOUT_REQUEST
35   };
36 };
37
38 const receiveLogout = () => {
39   return {
40     type: LOGOUT_SUCCESS
41   };
42 };
43
44 const loginError = () => {
45   return {
46     type: LOGIN_FAILURE
47   };
48 };
49
50 const verifyRequest = () => {
51   return {
52     type: VERIFY_REQUEST
53   };
54 };
55
56 const verifySuccess = () => {
57   return {
58     type: VERIFY_SUCCESS
59   };
60 };
61
62 export const loginUser = (email, password) => dispatch => {
63   dispatch(requestLogin());
64   myFirebase
65     .auth()
66     .signInWithEmailAndPassword(email, password)
67     .then(user => {
68       dispatch(receiveLogin(user));
69     })
70     .catch(error => {
71       //Do something with the error if you want!
72       dispatch(loginError());
73     });
74 };
75
76 export const logoutUser = () => dispatch => {
77   dispatch(requestLogout());
78   myFirebase
79     .auth()
80     .signOut()
81     .then(() => {
82       dispatch(receiveLogout());
83     })
84     .catch(error => {
85       //Do something with the error if you want!
86       dispatch(logoutError());
87     });
88 };
89
90 export const verifyUser = () => dispatch => {
91   dispatch(verifyRequest());
92   myFirebase.auth().onAuthStateChanged(user => {
93     if (user != null) {
94       dispatch(receiveLogin(user));
95     }
96     dispatch(verifySuccess());
97   });
98 };

```

- Setting reducer
- Buka reducers/auth.js

The screenshot shows the `auth.js` file in the `src > reducers` directory. It defines the initial state for the authentication module, including `isLoggedInIn`, `isLoggedInOut`, `isVerifying`, `loginError`, `logoutError`, `isAuthenticated`, and `user`. It also defines the `action` handler, which switches on the `action.type` and updates the state accordingly. The `LOGIN_REQUEST` action sets `isLoggedInIn` to `true` and `loginError` to `false`. The `LOGIN_SUCCESS` action sets `isLoggedInIn` to `true` and `loginError` to `false`.

```

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     isLoggedInIn: false,
15     isLoggedInOut: 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         isLoggedInIn: true,
29         loginError: false
30       };
31     case LOGIN_SUCCESS:
32       return {

```

```
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
65 case VERIFY_REQUEST:
66   return {
67     ...state,
68     isVerifying: true,
69     verifyingError: false
70   };
71 case VERIFY_SUCCESS:
72   return {
73     ...state,
74     isVerifying: false
75   };
76 default:
77   return state;
78 }
```

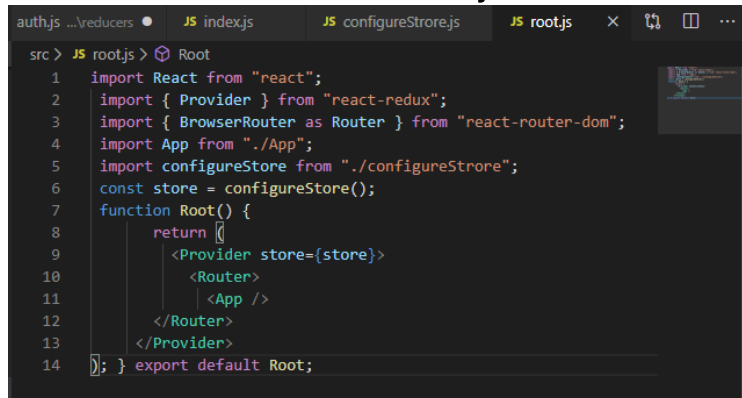
- Edit reducers/index.js

```
src > reducers > JS index.js > default
1 import { combineReducers } from "redux";
2 import auth from "../auth";
3 export default combineReducers({ auth });
```

- Setting Redux plumbing
- Pilih src folder called configureStore.js dan edit

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

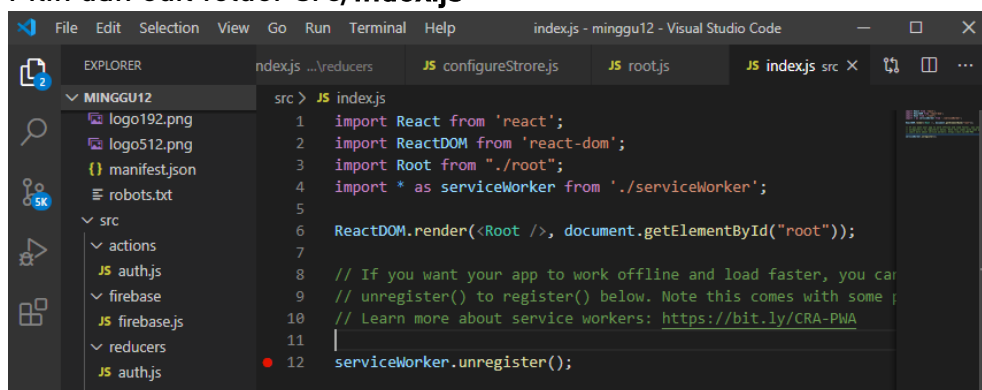
- Pilih dan edit folder src dan root.js



```

src > JS rootjs > Root
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   ); } export default Root;
  
```

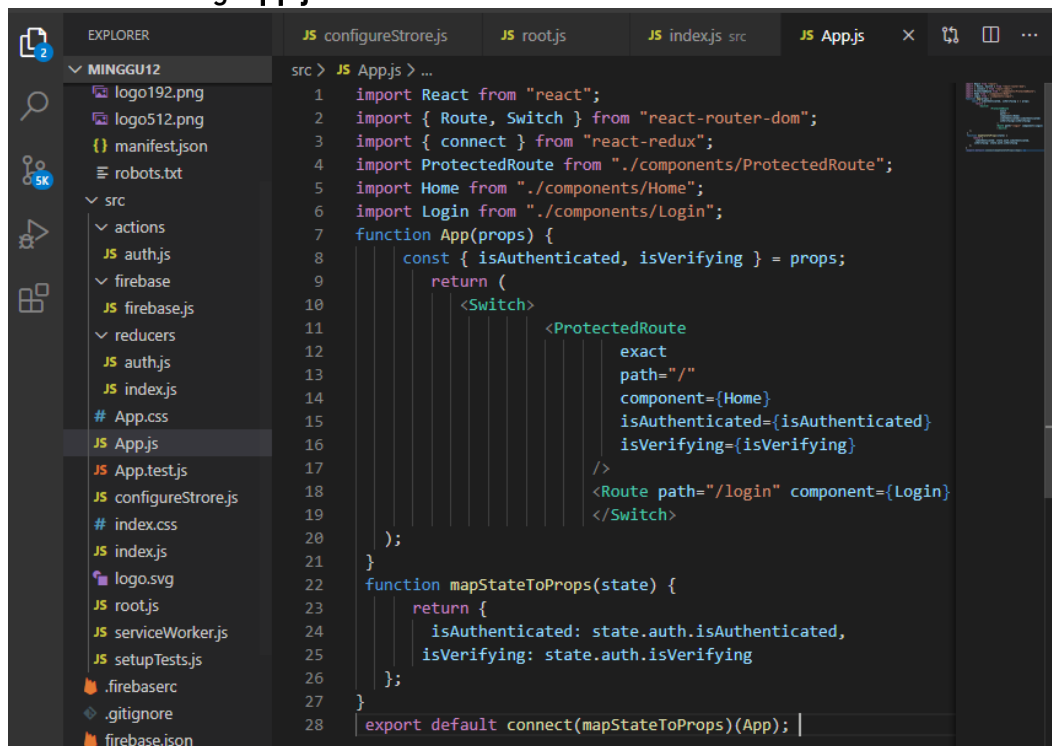
- Pilih dan edit folder src/index.js



```

indexjs - minggu12 - Visual Studio Code
EXPLORER indexjs ...reducers JS configureStore.js JS rootjs JS indexjs src
MINGGU12
  logo192.png
  logo512.png
  manifest.json
  robots.txt
  src
    actions
    JS authjs
    firebase
    JS firebase.js
    reducers
    JS authjs
    JS indexjs
1 import React from 'react';
2 import ReactDOM from 'react-dom';
3 import Root from "../root";
4 import * as serviceWorker from './serviceWorker';
5
6 ReactDOM.render(<Root />, document.getElementById("root"));
7
8 // If you want your app to work offline and load faster, you can
9 // unregister() to register() below. Note this comes with some
10 // Learn more about service workers: https://bit.ly/CRA-PWA
11
12 serviceWorker.unregister();
  
```

- Buat lah coding App.js



```

EXPLORER JS configureStore.js JS rootjs JS indexjs src JS App.js
MINGGU12
  logo192.png
  logo512.png
  manifest.json
  robots.txt
  src
    actions
    JS authjs
    firebase
    JS firebase.js
    reducers
    JS authjs
    JS indexjs
    # App.css
    JS App.js
    JS App.test.js
    JS configureStore.js
    # index.css
    JS index.js
    logo.svg
    JS root.js
    JS serviceWorker.js
    JS setupTests.js
    .firebaserc
    .gitignore
    firebase.json
src > JS Appjs > ...
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 function App(props) {
8   const { isAuthenticated, isVerifying } = props;
9   return (
10     <Switch>
11       <ProtectedRoute
12         exact
13         path="/"
14         component={Home}
15         isAuthenticated={isAuthenticated}
16         isVerifying={isVerifying}
17       />
18       <Route path="/login" component={Login} />
19     </Switch>
20   );
21 }
22 function mapStateToProps(state) {
23   return {
24     isAuthenticated: state.auth.isAuthenticated,
25     isVerifying: state.auth.isVerifying
26   };
27 }
28 export default connect(mapStateToProps)(App);
  
```

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

```
import React, { Component } from "react"; import { connect } from "react-
redux"; import { Redirect } from "react-router-
dom"; import { loginUser } from "../actions";

import { withStyles } from "@material-ui/styles";

import Avatar from "@material-ui/core/Avatar"; import Button from "@material-
ui/core/Button"; import TextField from "@material-ui/core/TextField";

import LockOutlinedIcon from "@material-
ui/icons/LockOutlined"; import Typography from "@material-
ui/core/Typography"; import Paper from "@material-ui/core/Paper";

import Container from "@material-ui/core/Container";

const styles = () => ({

"@global": {

body: {

backgroundColor: "#fff",

},

},

paper: {

marginTop: 100,

display: "flex",

padding: 20,

flexDirection: "column",

alignItems: "center",

},

avatar: {

marginLeft: "auto",
```

```
marginRight: "auto",

backgroundColor: "#f50057",

},

form: {

marginTop: 1,

},

errorText: {

color: "#f50057",

marginBottom: 5,

textAlign: "center",

},

});

class Login extends Component {

state = { email: "", password: "" };

handleEmailChange = ({ target }) => {

this.setState({ email: target.value });

};

handlePasswordChange = ({ target }) => { this.setState({ password: target.value });

};

handleSubmit = () => {

const { dispatch } = this.props;

const { email, password } = this.state;
```

```

dispatch(loginUser(email, password));

};

render() {

const { classes, loginError, isAuthenticated } = this.props; if (isAuthenticated) {

return <Redirect to="/" />;

} else { return (

<Container component="main" maxWidth="xs"> <Paper className={classes.paper}>

<Avatar className={classes.avatar}> <LockOutlinedIcon />

</Avatar>

<Typography component="h1" variant="h5"> Sign in

</Typography> <TextField

variant="outlined" margin="normal" fullWidth id="email" label="Email Address"

name="email"

onChange={this.handleEmailChange}

/>

<TextField variant="outlined" margin="normal" fullWidth name="password" label="

Password" type="password" id="password"

onChange={this.handlePasswordChange}

/>

{loginError && (

<Typography component="p" className={classes.errorText}> Incorrect email or pa

ssword.

</Typography>

)}}

<Button type="button" fullWidth variant="contained" color="primary" className=

{classes.submit} onClick={this.handleSubmit}

```

```
>

Sign In

</Button>

</Paper>

</Container>

);

}

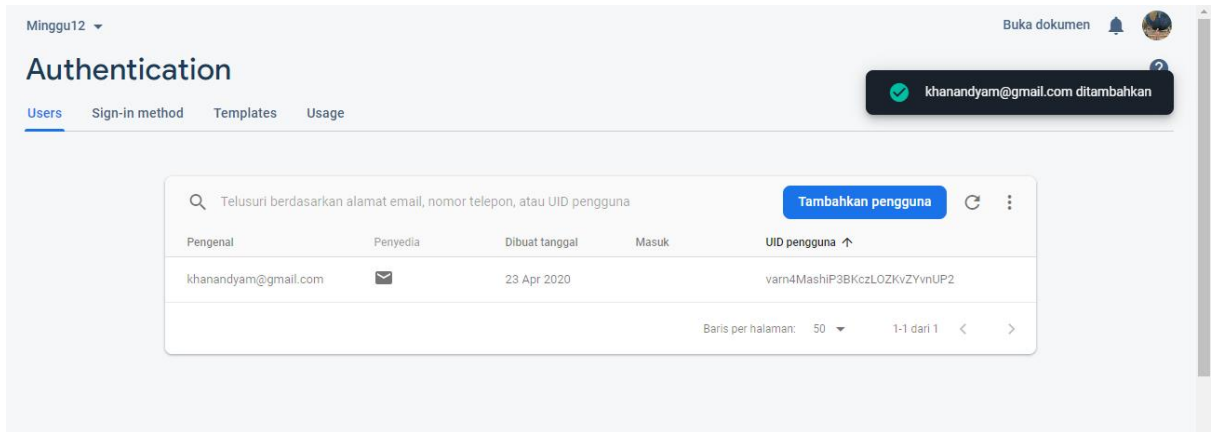
}

}

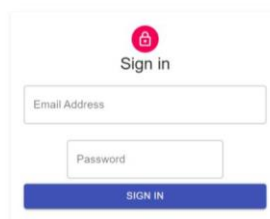
function mapStateToProps(state) {
  return {
    isLoggingIn: state.auth.isLoggingIn,
    loginError: state.auth.loginError,
    isAuthenticated: state.auth.isAuthenticated,
  };
}

export default withStyles(styles)(connect(mapStateToProps)(Login));
```


- ✓ Masuk ke firebase console kemudian add user



- ✓ Pilih npm start kemudian masukkan username dan password



- ✓ Kemudian masuk ke dalam halaman beranda

This is your app's protected area.

Any routes here will also be protected

Logout