LAPORAN PRAKTIKUM

PEMROGRAMAN BERBASIS FRAMEWORK

Pertemuan Minggu-11

Modul 11 – Firebase Login

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PROGRAM STUDI TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI
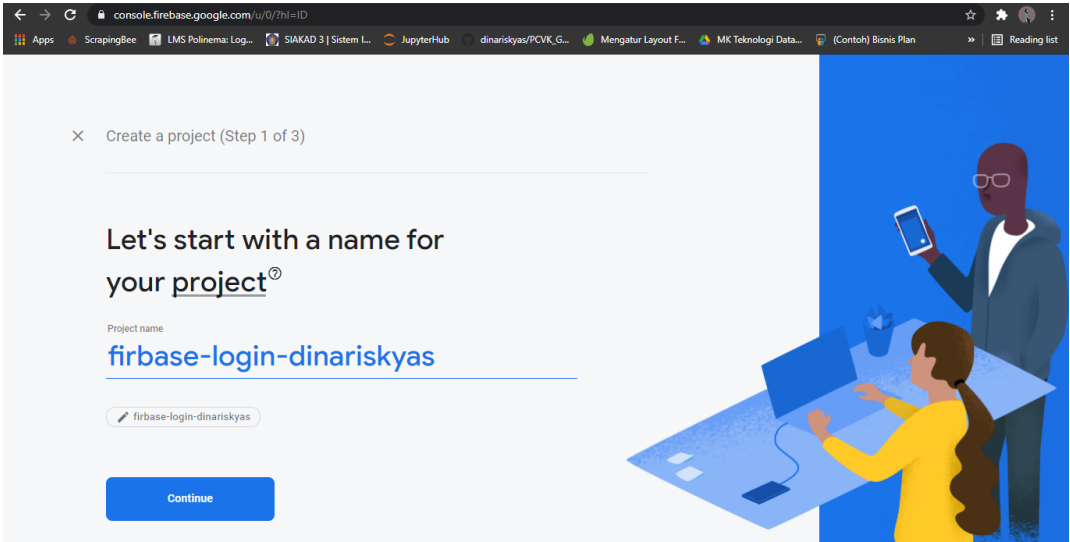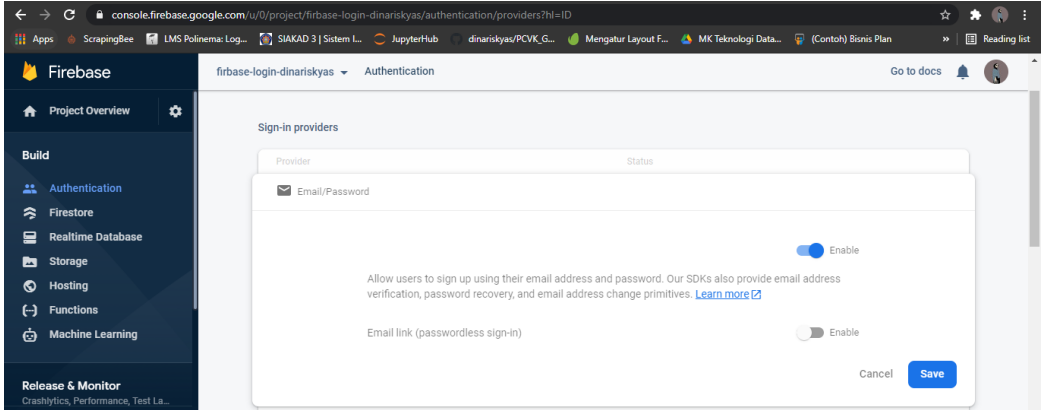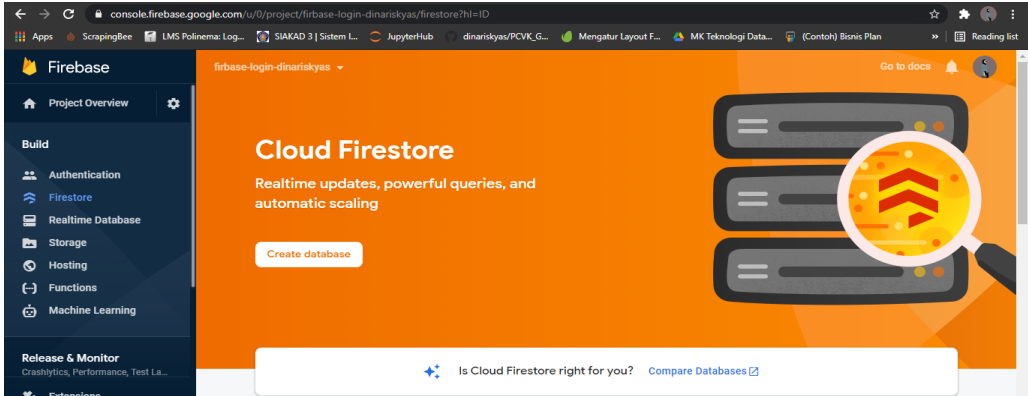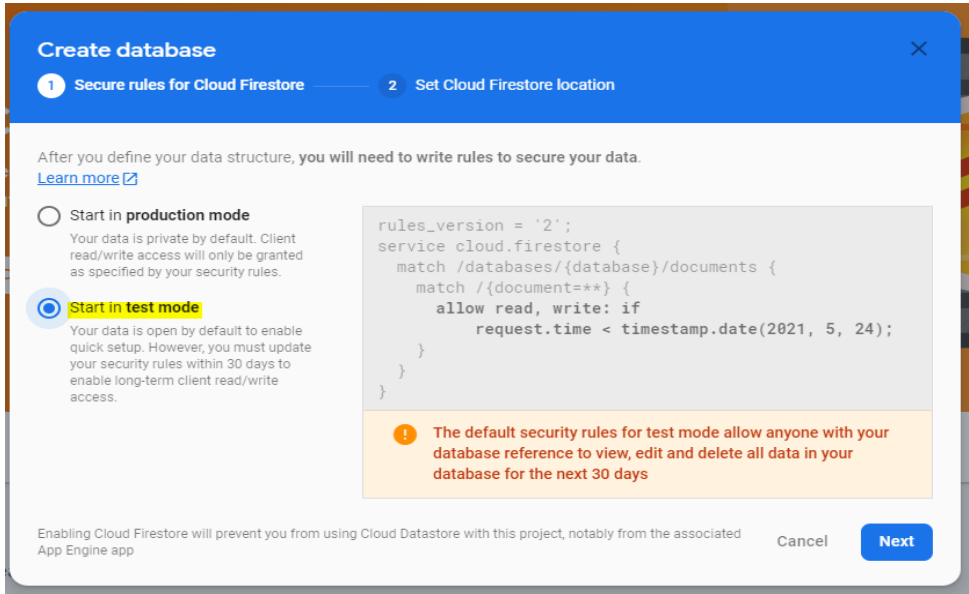
POLITEKNIK NEGERI MALANG
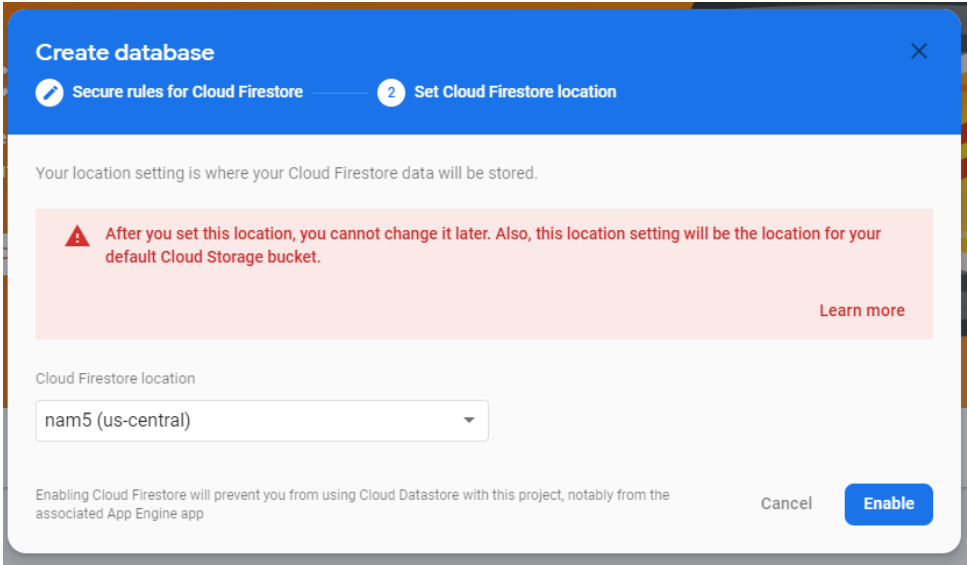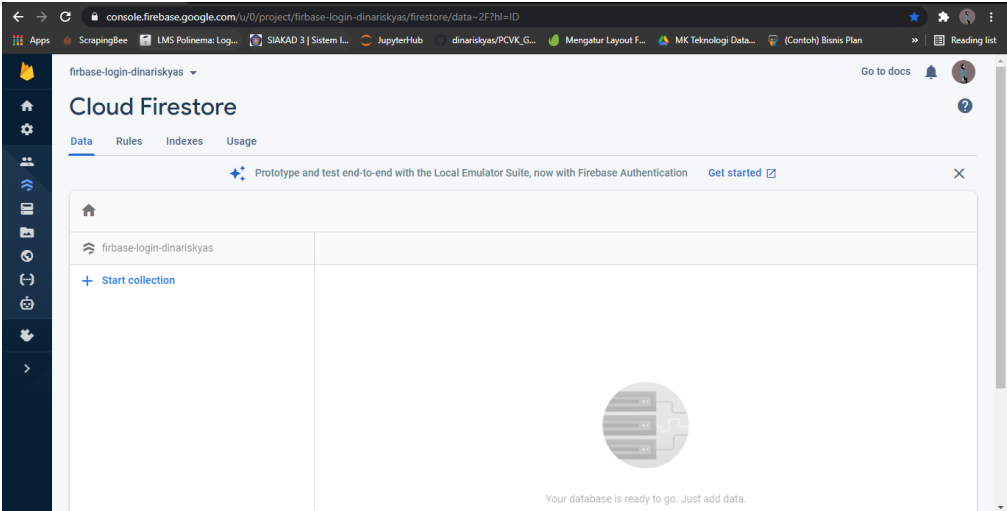
2021

FIREBASE LOGIN

Firebase adalah serangkaian alat (bantu) untuk developer aplikasi, namun bukan hanya untuk developer aplikasi Android. Ini untuk developer aplikasi iOS dan juga developer aplikasi web. Akan tetapi, karena kursus ini adalah tentang development Android, pelajaran ini hanya membahas tentang cara menggunakan Firebase dengan aplikasi Android.

Sebagai developer Android, Anda menggunakan Android Studio untuk membangun aplikasi, namun Anda bisa menggunakan Firebase untuk menambahkan fitur ke aplikasi, mendapatkan pengguna aplikasi yang lebih luas, menguji aplikasi, menghasilkan pendapatan dari aplikasi, dan mendapatkan analisis tentang penggunaan aplikasi tersebut.

Langkah :

Langkah	Keterangan
1	Setting Firebase Console Login ke firebase console dan add a new project. Pilih authentification dan pilih tab menu **Set up sign in method**

1	
2	Setelah enabling athentification pilih menu Database dan pilih create database
3	Select **Start in test mode.**

4	Pilih Done

Setting react app dan firebase

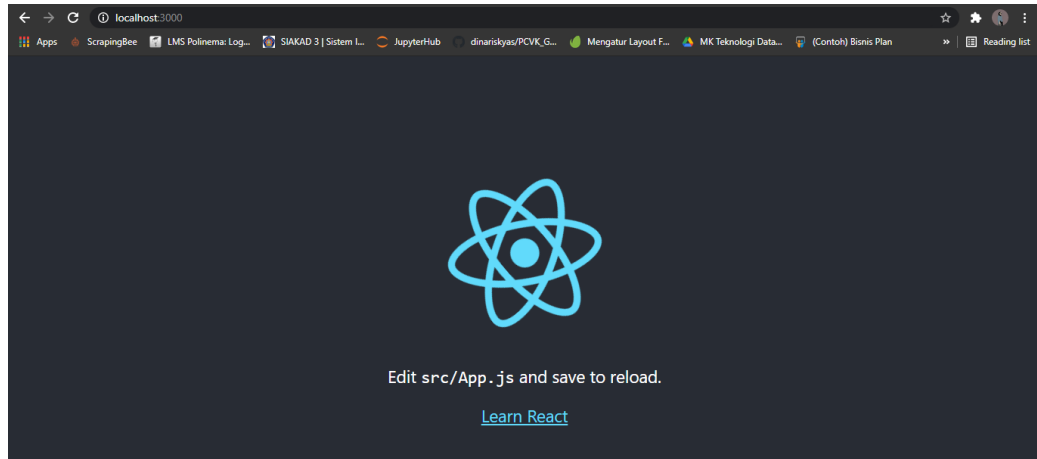| Langkah	Keterangan
1	Buat aplikasi baru dengan perintah *npx create-react-app your-project-name*

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS\Pemrograman-Framework\minggu11> npx create-react-app firebase-login-dinarisky

Creating a new React app in C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...


> core-js@2.6.12 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky\node_modules\b
> node -e "try{require('./postinstall')}catch(e){}"


> core-js@3.11.0 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky\node_modules\c
> node -e "try{require('./postinstall')}catch(e){}"


> core-js-pure@3.11.0 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky\node_modu
> node -e "try{require('./postinstall')}catch(e){}"


> ejs@2.7.4 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky\node_modules\ejs
> node ./postinstall.js

+ react-dom@17.0.2
+ react@17.0.2
+ react-scripts@4.0.3
+ cra-template@1.1.2
added 1921 packages from 732 contributors and audited 1924 packages in 897.757s

removed 1 package and audited 1952 packages in 13.464s

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

found 0 vulnerabilities


Success! Created firebase-login-dinarisky at C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd firebase-login-dinarisky
  npm start

Happy hacking!
PS C:\Users\ASUS\Pemrograman-Framework\minggu11>
```

| 2 | Install project baru dengan perintah

npm run start |

| | ```
Success! Created firebase-login-dinarisky at C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky
Inside that directory, you can run several commands:
Compiled successfully!

You can now view firebase-login-dinarisky in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.1.6:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```<br><br>Edit src/App.js and save to reload.<br><br>Learn React |
| 3 | Install firebase<br><br>**npm install -g firebase-tools**<br><br>```
PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> npm install -g
g firebase-tools                                                                   /
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com
/request/request/issues/3142                                                       g
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
> re2@1.15.9 install C:\Users\ASUS\AppData\Roaming\npm\node_modules\firebase-tools\node_modules\re2
> install-from-cache --artifact build/Release/re2.node --host-var RE2_DOWNLOAD_MIRROR || npm run rebuild

Trying https://github.com/uhop/node-re2/releases/download/1.15.9/win32-x64-83.br ...
Writing to build/Release/re2.node ...
Done.
```<br><br>**firebase login**<br><br>```
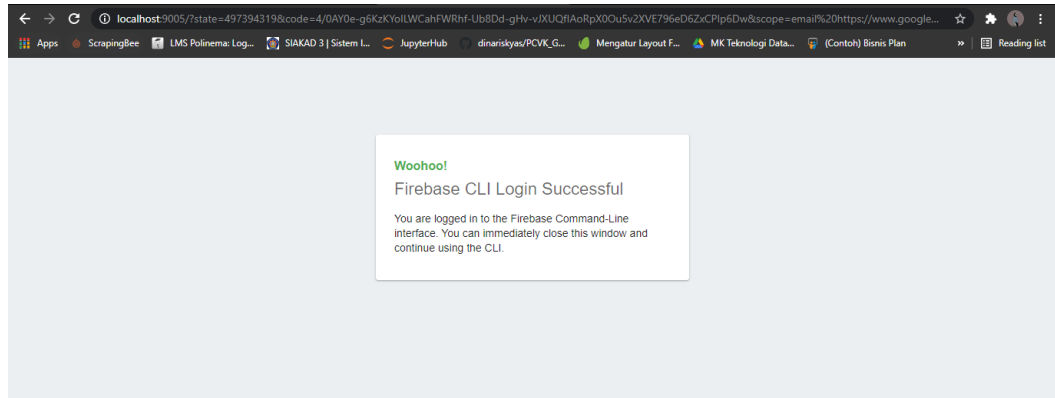PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypas
s
PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> firebase login
i Firebase optionally collects CLI usage and error reporting information to help improve our products. Data is collected in accord
ance 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-fgrhgmd47bqnekij5i8b5pr03ho849e6.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=497394319&redirect_uri=http%3A%2F%2
Flocalhost%3A9005

Waiting for authentication...

+ Success! Logged in as dinarisky04@gmail.com
PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky>
``` |

firebase init

Pilih setting untuk firebase nya firebase dan Hosting

4

5	Pilih build jangan pilih Do not choose public
6	Pilih ``` === 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) ``` Pilih Y lalu N untuk overwriting index.html ``` ? Configure as a single-page app (rewrite all urls to /index.html)? No ? Set up automatic builds and deploys with GitHub? No + Wrote public/404.html ? File public/index.html already exists. Overwrite? No i Skipping write of public/index.html i Writing configuration info to firebase.json... i Writing project information to .firebaserc... + Firebase initialization complete! PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> ```

7	Untuk membangun firebase
	
	npm run build
	
	``
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> npm run build
	
	> firebase-login-dinarisky@0.1.0 build C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky
	> react-scripts build
	
	Creating an optimized production build...
	Compiled successfully.
	
	File sizes after gzip:
	
	  41.35 KB build\static\js\2.a63c9572.chunk.js
	  1.58 KB build\static\js\3.8c52a585.chunk.js
	  1.18 KB build\static\js\runtime-main.b7498e8d.js
	  604 B build\static\js\main.e0ef9d60.chunk.js
	  574 B build\static\css\main.9d5b29c0.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
	
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky>
	``
	
	firebase serve

```
PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> firebase serve

=== Serving from 'C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky'...

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

Instalasi Redux

Langkah	Keterangan
1	Install Redux dan react redux, redux thunk *npm install redux* ![terminal output npm install redux] *npm install react-redux* ![terminal output npm install react-redux]

	npm install redux-thunk
	
	``
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> npm install redux-thunk
	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 ins
	talled. You must install peer dependencies yourself.
	npm WARN 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-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 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-thunk@2.3.0
	added 1 package from 1 contributor and audited 1964 packages in 42.8s
	
	135 packages are looking for funding
	  run `npm fund` for details
	
	found 0 vulnerabilities
	
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky>
	``
	
	npm install react-router-dom
	
	``
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> 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 ins
	talled. You must install peer dependencies yourself.
	npm WARN 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-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 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"})
	
	+ react-router-dom@5.2.0
	added 10 packages from 5 contributors and audited 1974 packages in 27.928s
	
	135 packages are looking for funding
	  run `npm fund` for details
	
	found 0 vulnerabilities
	
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky>
	``

2	Install firebase ``` PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> npm install firebase > core-js@3.6.5 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky\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 C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky\node_modules\protobufjs > node scripts/postinstall 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 ins talled. You must install peer dependencies yourself. npm WARN 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-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 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"}) ```

3	Pilih UI library
	
	``
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> npm install @material-ui/core
	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 ins
	talled. You must install peer dependencies yourself.
	npm WARN 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-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 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 25 packages from 18 contributors and audited 2082 packages in 82.561s
	
	140 packages are looking for funding
	  run `npm fund` for details
	
	found 0 vulnerabilities
	
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky>
	``

4	Paste kan file public/index.html ``` 5 <link 6 rel="stylesheet" 7 href="https://fonts.googleapis.com/css?family=Roboto:300,400,500,700&display=swap" 8 /> ```

5	Install material icon
	
	``
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky> npm install @material-ui/icons
	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 ins
	talled. You must install peer dependencies yourself.
	npm WARN 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-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 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/icons@4.11.2
	added 1 package from 1 contributor and audited 2083 packages in 60.561s
	
	140 packages are looking for funding
	  run `npm fund` for details
	
	found 0 vulnerabilities
	
	PS C:\Users\ASUS\Pemrograman-Framework\minggu11\firebase-login-dinarisky>
	``

Setting firebase config

Langkah	Keterangan

1	Pilih project setting

	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="/__/firebase/8.4.2/firebase-app.js"></script>`
	
	`<!-- TODO: Add SDKs for Firebase products that you want to use`
	`     https://firebase.google.com/docs/web/setup#available-libraries -->`
	`<script src="/__/firebase/8.4.2/firebase-analytics.js"></script>`
	
	`<!-- Initialize Firebase -->`
	`<script src="/__/firebase/init.js"></script>`
	
	Learn more about Firebase for web: Get Started ↗, Web SDK API Reference ↗, Samples ↗
	
	Next
	
	3 Install Firebase CLI
	
	To host your site with Firebase Hosting, you need the Firebase CLI (a command line tool).
	
	Run the following npm ↗ command to install the CLI or update to the latest CLI version.
	
	`$ npm install -g firebase-tools`
	
	Doesn't work? Take a look at the Firebase CLI reference ↗ or change your npm permissions ↗
	
	Next
	
	4 Deploy to Firebase Hosting
	
	You can deploy now or later ↗. To deploy now, open a terminal window, then navigate to or create a root directory for your web app.
	Sign in to Google
	
	`$ firebase login`
	
	Initiate your project
	Run this command from your app's root directory:
	
	`$ firebase init`
	
	When you're ready, deploy your web app
	Put your static files (e.g., HTML, CSS, JS) in your app's deploy directory (the default is "public").
	Then, run this command from your app's root directory:
	
	`$ firebase deploy`
	
	After deploying, view your app at firbase-login-dinariskyas.web.app ↗
	Need help? Check out the Hosting docs ↗
	
	Continue to console

2	Pilih config
	
	Firebase SDK snippet
	
	○ Automatic ⑦ ○ CDN ⑦ ● Config ⑦
	
	Copy and paste these scripts into the bottom of your <body> tag, but before you use any Firebase services:
	
	`// For Firebase JS SDK v7.20.0 and later, measurementId is optional`
	`const firebaseConfig = {`
	`  apiKey: "AIzaSyB131ttS7CyhsvZoyo-t8OSSuYNu_eUbVQ",`
	`  authDomain: "firbase-login-dinariskyas.firebaseapp.com",`
	`  projectId: "firbase-login-dinariskyas",`
	`  storageBucket: "firbase-login-dinariskyas.appspot.com",`
	`  messagingSenderId: "892952490167",`
	`  appId: "1:892952490167:web:e294bdeb7dad7b9bd05d32",`
	`  measurementId: "G-WHLX5B8BXL"`
	`};`

| 3 | Edit **firebase/firebase.js**<br><br>```js
firebase-login-dinarisky > src > firebase > JS firebase.js > ...
 1   import firebase from "firebase/app";
 2   import "firebase/auth";
 3   import "firebase/firestore";
 4
 5   // For Firebase JS SDK v7.20.0 and later, measurementId is optional
 6   const firebaseConfig = {
 7       apiKey: "AIzaSyB131ttS7CyhsvZoyo-t8OSSuYNu_eUbVQ",
 8       authDomain: "firbase-login-dinariskyas.firebaseapp.com",
 9       projectId: "firbase-login-dinariskyas",
10       storageBucket: "firbase-login-dinariskyas.appspot.com",
11       messagingSenderId: "892952490167",
12       appId: "1:892952490167:web:e294bdeb7dad7b9bd05d32",
13       measurementId: "G-WHLX5B8BXL"
14   };
15
16   export const myFirebase = firebase.initializeApp(firebaseConfig);
17   const baseDb = myFirebase.firestore();
18   export const db = baseDb;
``` |
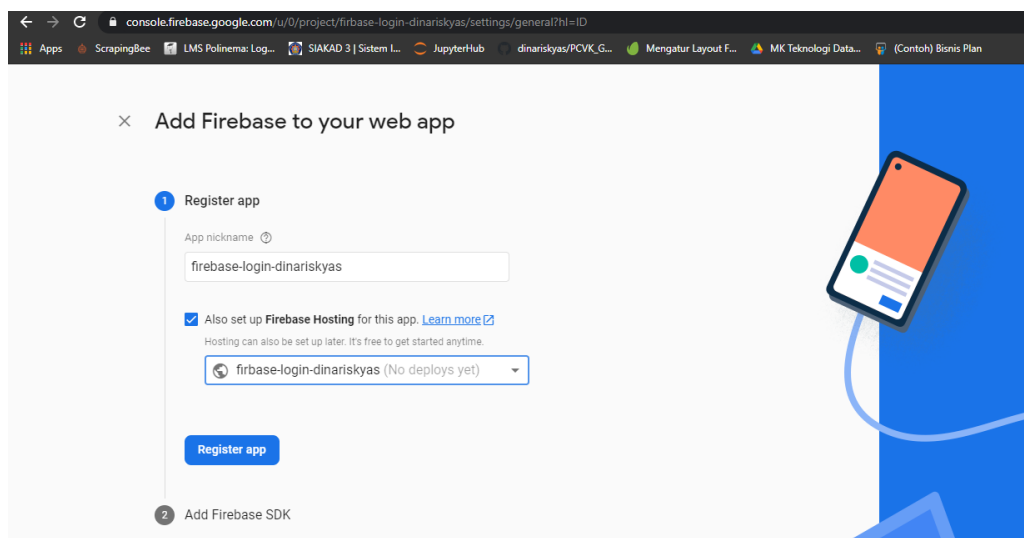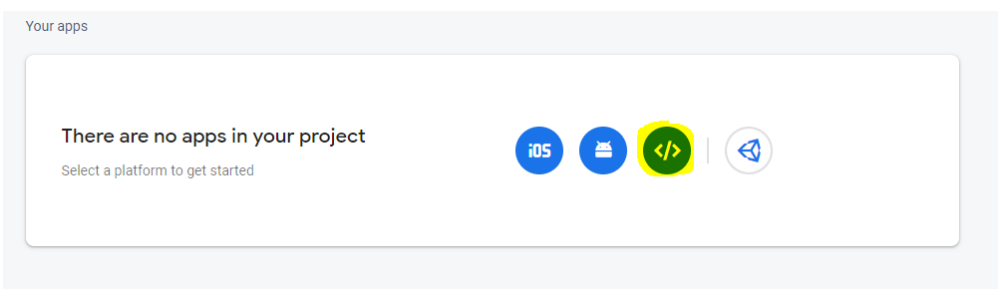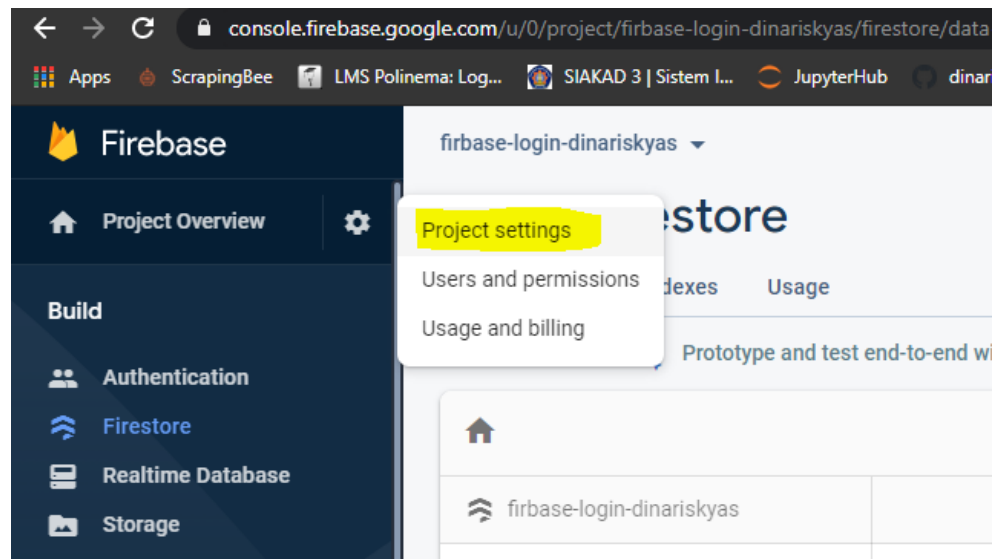| 4 | Edit **actions/auth.js**<br><br>```js
firebase-login-dinarisky > src > actions > JS auth.js > ...
 1    import { myFirebase } from "../firebase/firebase";
 2
 3    export const LOGIN_REQUEST = "LOGIN_REQUEST";
 4    export const LOGIN_SUCCESS = "LOGIN_SUCCESS";
 5    export const LOGIN_FAILURE = "LOGIN_FAILURE";
 6
 7    export const LOGOUT_REQUEST = "LOGOUT_REQUEST";
 8    export const LOGOUT_SUCCESS = "LOGOUT_SUCCESS";
 9    export const LOGOUT_FAILURE = "LOGOUT_FAILURE";
10
11    export const VERIFY_REQUEST = "VERIFY_REQUEST";
12    export const VERIFY_SUCCESS = "VERIFY_SUCCESS";
``` |
| 5 | user requesting to login masih dalam **actions/auth.js**<br><br>```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()

```js
firebase-login-dinarisky > src > actions > JS auth.js > ...
  1    import { myFirebase } from "../firebase/firebase";
  2
  3    export const LOGIN_REQUEST = "LOGIN_REQUEST";
  4    export const LOGIN_SUCCESS = "LOGIN_SUCCESS";
  5    export const LOGIN_FAILURE = "LOGIN_FAILURE";
  6
  7    export const LOGOUT_REQUEST = "LOGOUT_REQUEST";
  8    export const LOGOUT_SUCCESS = "LOGOUT_SUCCESS";
  9    export const LOGOUT_FAILURE = "LOGOUT_FAILURE";
 10
 11    export const VERIFY_REQUEST = "VERIFY_REQUEST";
 12    export const VERIFY_SUCCESS = "VERIFY_SUCCESS";
 13
 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    };
 32
 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  v export const loginUser = (email, password) => (dispatch) => {
64        dispatch(requestLogin());
65        myFirebase
66            .auth()
67            .signInWithEmailAndPassword(email, password)
68  v         .then((user) => {
69                dispatch(receiveLogin(user));
70            })
71  v         .catch((error) => {
72                //Do something with the error if you want!
73                dispatch(loginError());
74            });
75    };
76
77  v export const logoutUser = () => (dispatch) => {
78        dispatch(requestLogout());
79        myFirebase
80            .auth()
81            .signOut()
82  v         .then(() => {
83                dispatch(receiveLogout());
84            })
85  v         .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

Langkah	Keterangan
1	Buka reducers/auth.js

```
firebase-login-dinarisky > src > reducers > JS auth.js > default
  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/auth";
 11
 12   // eslint-disable-next-line import/no-anonymous-default-export
 13   export default (
 14       state = {
 15           isLoggingIn: false,
 16           isLoggingOut: false,
 17           isVerifying: false,
 18           loginError: false,
 19           logoutError: false,
 20           isAuthenticated: false,
 21           user: {}
 22       },
 23       action
 24   ) => {
 25       switch (action.type) {
 26           case LOGIN_REQUEST:
 27               return {
 28                   ...state,
 29                   isLoggingIn: true, 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, isVerifying: false
73          };
74      default:
75          return state;
76  }
77  }
78
``` |
| 2 | Edit reducers/index.js

```
firebase-login-dinarisky > src > reducers > JS index.js > ...
1   import { combineReducers } from "redux";
2   import auth from "./auth";
3   export default combineReducers({ auth });
4
``` |
| 3 | Setting Redux plumbing |
| 4 | **Pilih src** folder called **configureStore.js dan edit**

```
firebase-login-dinarisky > src > JS configureStore.js > ◉ configureStore
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  }
``` |
| 5 | Pilih dan edit folder src dan 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
7    const store = configureStore();
8
9    function Root() {
10       return (
11           <Provider store={store}>
12               <Router>
13                   <App />
14               </Router>
15           </Provider>
16       );
17   }
18
19   export default Root;
```

Pilih dan edit folder src/index.js

```
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 change
9    // unregister() to register() below. Note this comes with some pitfalls.
10   // Learn more about service workers: https://bit.ly/CRA-PWA
11   serviceWorker.unregister();
```

Buat lah coding 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);
```

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

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

| 9 | Buka **component/Home.js** |

```
firebase-login-dinarisky > src > components > JS Home.js > ⬦ Home > ⬦ render
1    import React, { Component } from "react";
2    import { connect } from "react-redux";
3    import { logoutUser } from "../actions/auth";
4
5    class Home extends Component {
6        handleLogout = () => {
7            const { dispatch } = this.props;
8            dispatch(logoutUser());
9        };
10        render() {
11            const { isLoggingOut, logoutError } = this.props;
12            return (
13                <div>
14                    <h1>This is your app's protected area.</h1>
15                    <p>Any routes here will also be protected</p>
16                    <button onClick={this.handleLogout}>Logout</button>
17                    {isLoggingOut && <p>Logging Out....</p>}
18                    {logoutError && <p>Error logging out</p>}
19                </div>
20            );
21        }
22    }
23
24    function mapStateToProps(state) {
25        return {
26            isLoggingOut: state.auth.isLoggingOut,
27            logoutError: state.auth.logoutError,
28        };
29    }
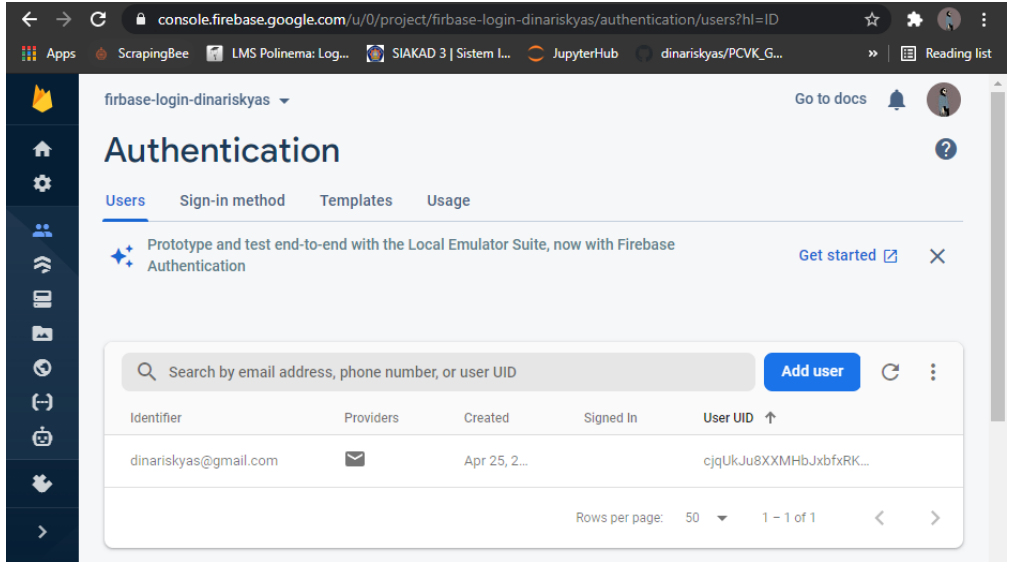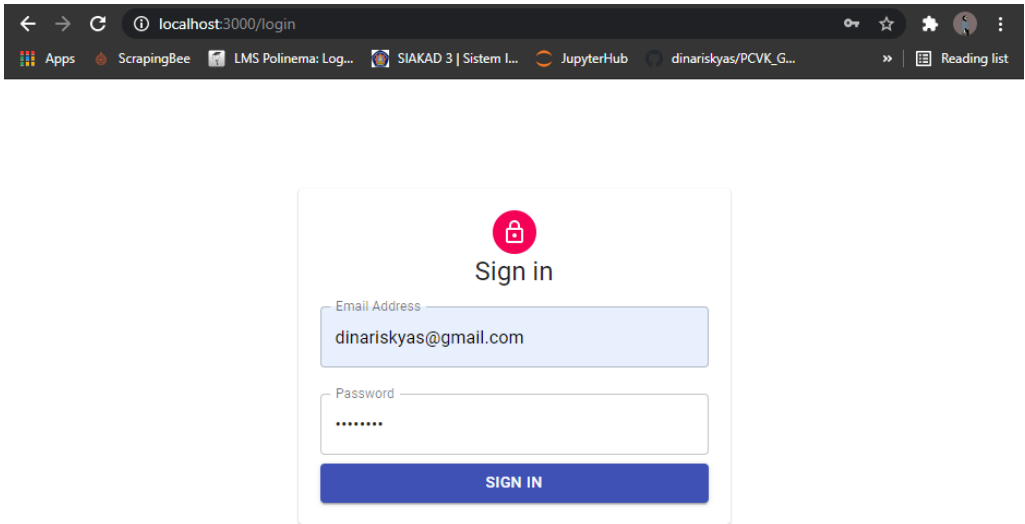30
31    export default connect(mapStateToProps)(Home);
```

Buat file dalam folder /src/component/ dengan nama protectedRoute.js

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

| | ```
25    |        }
26    |     />
27    );
28
29    export default ProtectedRoute;
``` |
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 localhost:3000 Apps · ScrapingBee · LMS Polinema: Log... · SIAKAD 3	Sistem I... · JupyterHub · dinariskyas/PCVK_G... · Reading list **This is your app's protected area.** Any routes here will also be protected Logout

Link Github:

Link Youtube :