TUGAS INDIVIDU

Jobsheet 11

Firebase Login

Pemprograman Berbasis Framework



Oleh:

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TI - 3A

PROGRAM STUDI – D4 TEKNIK INFORMATIKA

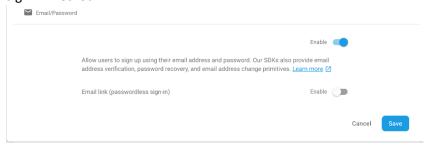
JURUSAN – TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020/2021

Langkah:

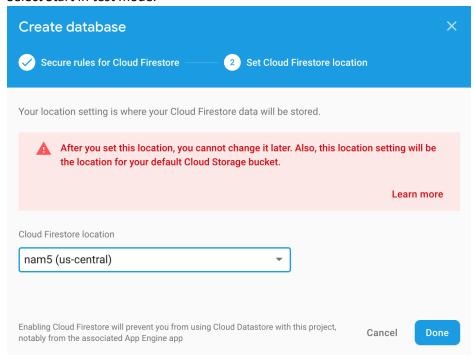
Setting Firebase Console
 Login ke firebase console dan add a new project. Pilih authentification dan pilih tab menu Set up
 sign in method



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:

- 1. Buat Aplikasi baru dengan perintah **npx create-react-app namaApp** jika sudah langsung jalankan dengan perintah **npm start**
- 2. Install firebase dengan CLI **npm install –g firebase-tools** dan setelah selesai ketik **firebase login** , setelah selesai firebase login maka ketik **firebase init**
- Pilih setting untuk firebasenya firebase dan hosting

 (*) 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

4. Pilih build jangan pilih Do not choose public

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? no

5. Pilih

```
? Configure as a single-page app (rewrite all urls to /index.html)? No
+ Wrote no/404.html
+ Wrote no/index.html
i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
```

6. Untuk membangun firebase

```
MINGW64:/d/DZ/KULIAH/2019-2020/Semester 6/Pemrograman Framework/loginfirebase

HP@DESKTOP-DZ MINGW64 /d/DZ/KULIAH/2019-2020/Semester 6/Pemrograman Framework/loginfirebase

$ firebase serve
```

Instalasi Redux:

- Install Redux dan react redux, redux thunk dengan command npm install redux ,react-redux, redux-thunk, react-router-dom
- 2. Install firebase

```
MINGW64:/d/DZ/KULIAH/2019-2020/Semester 6/Pemrograman Framework/loginfirebase

HP@DESKTOP-DZ MINGW64 /d/DZ/KULIAH/2019-2020/Semester 6/Pemrograman Framework/loginfirebase

$ npm install firebase
```

3. Pilih UI library

```
MINGW64:/d/DZ/KULIAH/2019-2020/Semester 6/Pemrograman Framework/loginfirebase

HP@DESKTOP-DZ MINGW64 /d/DZ/KULIAH/2019-2020/Semester 6/Pemrograman Framework/loginfirebase

$ npm install @material-ui/core
```

4. Paste kan file public/index.html

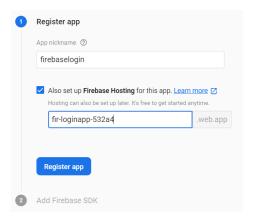
```
<link rel="manifest" href="https://fonts.googleapis.com/css
?family=Roboto:300,400,500,700&display=swap"/>
```

5. Install material icon

Setting firebase config:

1. Pilih project setting





2. Pilih config

Firebase SDK snippet

0	Automatic	?	O CDN	?		Config	?
---	-----------	---	-------	---	--	--------	---

3. Edit firebase/firebase.js

```
irebase > Js firebase.js > 10 firebaseConfig
  import "firebase/auth";
  import "firebase/firestore";

const firebaseConfig = {
    };

export const myFirebase = firebase.initializeApp(firebaseConfig);
  const baseDb = myFirebase.firestore();
  export const db = baseDb;
```

4. Edit actions/auth.js

```
actions > JS auth.js > ...
   import {myFirebase} from "../firebase/firebase"

export const LOGIN_REQUEST = "LOGIN_REQUEST";
   export const LOGIN_SUCCEST = "LOGIN_SUCCESS";
   export const LOGIN_FAILURE = "LOGIN_FAILURE";

export const LOGOUT_REQUEST = "LOGOUT_REQUEST";
   export const LOGOUT_SUCCEST = "LOGOUT_SUCCESS";
   export const LOGOUT_FAILURE = "LOGOUT_FAILURE";

export const VERIFY_REQUEST = "VERIFY_REQUEST";
   export const VERIFY_SUCCESS = "VERIFY_SUCCESS";
```

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

```
const requestLogin = () => {
    return {
       type: LOGIN_REQUEST
    };
};

const receiveLogin = user => {
    return {
       type: LOGIN_SUCCESS,
       user
    };
};

const loginError = () => {
    return {
       type: LOGIN_FAILURE
    };
};
```

6. Edit loginUser()

```
actions > JS auth.js > ...
  import {myFirebase} from "../firebase/firebase"
  export const LOGIN_REQUEST = "LOGIN_REQUEST";
  export const LOGIN_SUCCEST = "LOGIN_SUCCESS";
  export const LOGIN FAILURE = "LOGIN FAILURE";
  export const LOGOUT_REQUEST = "LOGOUT_REQUEST";
  export const LOGOUT_SUCCEST = "LOGOUT_SUCCESS";
  export const LOGOUT_FAILURE = "LOGOUT_FAILURE";
  export const VERIFY_REQUEST = "VERIFY_REQUEST";
  export const VERIFY_SUCCESS = "VERIFY_SUCCESS";
        type: LOGIN_REQUEST
        type: LOGIN_SUCCESS,
        type: LOGIN_FAILURE
        type: LOGOUT_REQUEST
        type: LOGOUT_SUCCESS
```

Setting reducer :

1. Buka reducers/auth.js

```
reducers > JS auth.js > 🕅 default
  import {
      LOGIN_REQUEST,
      LOGIN_FAILURE,
      LOGOUT_SUCCESS,
    } from "../actions/";
    export default (
      state = {
        isLoggingOut: false,
        isVerifying: false,
        user: {}
      },
      action
        case LOGIN_REQUEST:
          return {
             isLoggingIn: true,
             loginError: false
        case LOGIN_SUCCESS:
          return {
             isLoggingIn: false,
             isAuthenticated: true,
          };
        case LOGIN_FAILURE:
          return {
             isLoggingIn: false,
             isAuthenticated: false,
             loginError: true
```

```
case LOGOUT_REQUEST:
  return {
    isLoggingOut: true,
case LOGOUT_SUCCESS:
    isLoggingOut: false,
   isAuthenticated: false,
   user: {}
  };
case LOGOUT_FAILURE:
   isLoggingOut: false,
  };
case VERIFY_REQUEST:
    isVerifying: true,
   verifyingError: false
case VERIFY_SUCCESS:
default:
```

2. Edit reducers/index.js

```
reducers > Js index.js > ...
import { combineReducers } from "redux";
import auth from "./auth";
export default combineReducers({ auth });
```

3. Setting Redux plumbing

4. Pilih src folder called configureStore.js dan edit

```
import { applyMiddleware, createStore } from "redux";
import { applyMiddleware from "redux-thunk";
import thunkMiddleware from "redux-thunk";
import { verifyAuth } from "./actions/";
import rootReducer from "./reducers";
export default function configureStore(persistedState) {
   const store = createStore(
      rootReducer,
      persistedState,
      applyMiddleware(thunkMiddleware)
   );
   store.dispatch(verifyAuth());
   return store;
}
```

5. Pilih dan edit folder src dan root.js

6. Pilih dan edit folder src/index.js

```
Js index.js
|import React from "react";
import ReactDOM from "react-dom";
import Root from "./Root";
import * as serviceWorker from "./serviceWorker";

ReactDOM.render(<Root />, document.getElementById("Root"));

// If you want your app to work offline and load faster, you
// unregister() to register() below. Note this comes with som
// Learn more about service workers: https://bit.ly/CRA-PWA
serviceWorker.unregister();
```

7. Buat lah coding App.js

```
JS App.js > ...
  import React from "react";
  import { Route, Switch } from "react-router-dom";
  import { connect } from "react-redux";
  import ProtectedRoute from "./components/ProtectedRoute";
  import Home from "./components/Home";
  import Login from "./components/Login";
  function App(props) {
    const { isAuthenticated, isVerifying } = props;
      <Switch>
        <ProtectedRoute</pre>
          path="/"
          isAuthenticated={isAuthenticated}
          isVerifying={isVerifying}
        <Route path="/login" component={Login} />
      </Switch>
  function mapStateToProps(state) {
    return {
      isVerifying: state.auth.isVerifying
  export default connect(mapStateToProps)(App);
```

8. Buatlah file dan simpan components/Login.js

```
omponents > 🎜 Login.js > 😥 styles > 🔑 form
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";
        "@global": {
body: {
                backgroundColor: "#fff"
            marginTop: 100,
display: "flex",
            flexDirection: "column", alignItems: "center"
           marginLeft: "auto",
marginRight: "auto",
backgroundColor: "#f50057"
        form: {
           color: "#f50057",
marginBottom: 5,
```

```
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;
 render() {
    const { classes, loginError, isAuthenticated } = this.props;
if (isAuthenticated) {
   return <Redirect to="/" />;
          <LockOutlinedIcon />
                <Typography component="h1" variant="h5">
                </Typography>
                  variant="outlined"
margin="normal"
fullWidth
                   id="email"
                  label="Email Address"
name="email"
                  onChange={this.handleEmailChange}
                <TextField
                  variant="outlined"
margin="normal"
                  name="password"
label="Password"
                   type="password"
id="password"
                   onChange={this.handlePasswordChange}
                   <Typography component="p" className={classes.errorText}>
```

9. Buka component/Home.js

10. Buatlah file dalam folder src/component/ dengan nama protectedRoute.js

11. Running start