Laporan Praktikum Mata Kuliah Pemrograman Berbasis Framework "Week 11"



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JURUSAN TEKNOLOGI INFORMASI PROGRAM STUDI D-IV TEKNIK INFORMATIKA 2022

1. Setting react app dan firebase

1.1. Edit firebase/firebase.js

```
import firebase from 'firebase/compat/app';
import 'firebase/compat/auth';
import 'firebase/compat/firestore';
import { getAuth } from '@firebase/auth';

import { initializeApp } from "firebase/app";

import { getAnalytics } from "firebase/analytics";

const firebaseConfig = {
    apiKey: "AIzasyDSEE48jrP5063pOMGeqHH2DMDr1zbuWPo",
    authDomain: "pertemuan-11-16271.firebaseapp.com",
    projectId: "pertemuan-11-16271",
    storageBucket: "pertemuan-11-16271.appspot.com",
    messagingSenderId: "995213747816",
    appId: "1:995213747816:web:01dd52a02f51d06756bddd"

};

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

1.2. Edit actions/auth.js

```
import { myFirebase } from "../firebase/firebase";

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

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

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

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

```
const receiveLogin = (user) => {
        type: LOGIN_SUCCESS,
       user,
};
const loginError = () => {
        type: LOGIN_FAILURE,
};
const requestLogout = () => {
       type: LOGOUT_REQUEST,
const receiveLogout = () => {
       type: LOGOUT_SUCCESS,
};
const logoutError = () => {
        type: LOGOUT FAILURE,
};
const verifyRequest = () => {
        type: VERIFY REQUEST,
const verifySuccess = () => {
       type: VERIFY_SUCCESS,
```

```
export const loginUser = (email, password) => (dispatch) =>
   dispatch(requestLogin());
        .auth()
        .signInWithEmailAndPassword(email, password)
        .then((user) \Rightarrow {
            dispatch(receiveLogin(user));
        .catch((error) => {
            dispatch(loginError());
        });
};
export const logoutUser = () => (dispatch) => {
   dispatch(requestLogout());
        .auth()
        .signOut()
        .then(() => {
            dispatch(receiveLogout());
        .catch((error) => {
            dispatch(logoutError());
};
export const verifyAuth = () => (dispatch) => {
   dispatch(verifyRequest());
   myFirebase.auth().onAuthStateChanged((user) => {
        if (user !== null) {
            dispatch (receiveLogin (user));
        dispatch(verifySuccess());
```

1.3. Buka reducers/auth.js

```
import {
    LOGIN REQUEST,
   LOGIN FAILURE,
   LOGOUT REQUEST,
   LOGOUT SUCCESS,
   LOGOUT FAILURE,
   VERIFY REQUEST,
   VERIFY SUCCESS,
    state = {
       isLoggingIn: false,
        isLoggingOut: false,
        isVerifying: false,
        loginError: false,
        logoutError: false,
   switch (action.type) {
                isLoggingIn: true,
                loginError: false,
                ...state,
                isLoggingIn: false,
                isAuthenticated: true,
                user: action.user,
                ...state,
                isLoggingIn: false,
                isAuthenticated: false,
```

```
loginError: true,
case LOGOUT REQUEST:
        ...state,
        isLoggingOut: true,
        logoutError: false,
        ...state,
        isLoggingOut: false,
        isAuthenticated: false,
        ...state,
        isLoggingOut: false,
        logoutError: true,
case VERIFY REQUEST:
        ...state,
        isVerifying: true,
        verifyingError: false,
        isVerifying: false,
    return state;
```

1.4. Edit reducers/index.js

```
import { combineReducers } from "redux";
import auth from "./auth";
export default combineReducers({ auth });
```

1.5. Pilih src folder called configureStore is dan edit

```
import { applyMiddleware, createStore } from "redux";
import thunkMiddleware from "redux-thunk";
import { verifyAuth } from "./actions/auth";
import rootReducer from "./reducers";

export default function configureStore(persistedState) {
    const store = createStore(
        rootReducer,
        persistedState,
        applyMiddleware(thunkMiddleware)
    );
    store.dispatch(verifyAuth());
    return store;
}
```

1.6. Pilih dan edit folder src dan root.js

1.7. Pilih dan edit folder src/index.js

```
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import Root from './root';
import reportWebVitals from './reportWebVitals';
```

1.8. Buat lah coding App.js

```
return {
   isAuthenticated: state.auth.isAuthenticated,
   isVerifying: state.auth.isVerifying
  };
}
export default connect(mapStateToProps)(App);
```

1.9. Buatlah file dan simpan components/Login.js

```
import React, { Component } from "react";
import { Redirect } from "react-router-dom";
import { loginUser } from "../actions/auth";
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";
const styles = () \Rightarrow ({}
        body: {
            backgroundColor: "#fff"
   paper: {
       marginTop: 100,
        display: "flex",
       padding: 20,
        alignItems: "center"
   avatar: {
       marginLeft: "auto",
        marginRight: "auto",
        backgroundColor: "#f50057"
        marginTop: 1
```

```
errorText: {
        color: "#f50057",
       marginBottom: 5,
        textAlign: "center"
});
   state = { email: "", password: "" };
   handleEmailChange = ({ target }) => {
        this.setState({ email: target.value });
   handlePasswordChange = ({ target }) => {
        this.setState({ password: target.value });
   handleSubmit = () => {
       const { email, password } = this.state;
       dispatch(loginUser(email, password));
   render() {
                <Container component="main" maxWidth="xs">
                    <Paper className={classes.paper}>
                        <Avatar className={classes.avatar}>
                            <LockOutlinedIcon />
                        <Typography component="h1"
variant="h5">
                            Sign in
                        <TextField
                            margin="normal"
                            fullWidth
                            id="email"
                            label="Email Address"
```

```
name="email"
onChange={this.handleEmailChange}
                        <TextField
                            margin="normal"
                            fullWidth
                            label="Password"
                            type="password"
onChange={this.handlePasswordChange}
                            <Typography component="p"
className={classes.errorText}>
                                Incorrect email or password.
                            type="button"
                            fullWidth
                            className={classes.submit}
                            onClick={this.handleSubmit}
                            Sign In
                    </Paper>
            );
function mapStateToProps(state) {
        isLoggingIn: state.auth.isLoggingIn,
        loginError: state.auth.loginError,
        isAuthenticated: state.auth.isAuthenticated
```

```
};

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

1.10. Buka component/Home.js

```
import React, { Component } from "react";
import { logoutUser } from "../actions/auth";
   handleLogout = () => {
       dispatch(logoutUser());
   render() {
       const { isLoggingOut, logoutError } = this.props;
return (
               <h1>This is your app's protected area.</h1>
               Any routes here will also be
protected
onClick={this.handleLogout}>Logout</button>
               {isLoggingOut && Logging Out....}
                {logoutError && Error logging out}
       );
 function mapStateToProps(state) {
       isLoggingOut: state.auth.isLoggingOut,
       logoutError: state.auth.logoutError
export default connect(mapStateToProps)(Home);
```

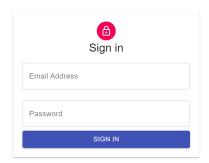
1.11. Buat File dalam folder /src/component/ dengan nama protectedRoute.js

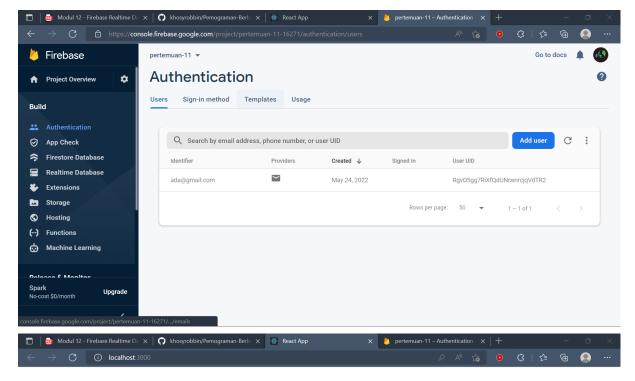
```
import React from "react";
import { Route, Redirect } from "react-router-dom";
```

```
const ProtectedRoute = ({
    component: Component,
    isAuthenticated,
    isVerifying,
    ...rest
        {...rest}
        render={props =>
            isVerifying ? (
                <Component {...props} />
                <Redirect
                    to={ {
                        pathname: "/login",
                        state: { from: props.location }
);
```

Hasil







This is your app's protected area.

Any routes here will also be protected Logout

Link Github: khosyrobbin/Pemograman-Berbasis-Framework (github.com)