Pemrograman Berbasis Framework

"Firebase Login"



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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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A. Reducers

1. Index.js

```
index.html ...\public index.html ...\build Js index.js ...\reducers X

pertemuan-keduabelas > firebase-login > reducers > Js index.js > [♥] default

import { combineReducers } from "redux";

import auth from "./auth";

export default combineReducers({ auth });
```

2. Auth.js

```
JS auth.js
                  JS configureStore.js
            ×
import {
  LOGIN_REQUEST,
          LOGIN_SUCCESS,
          LOGIN_FAILURE,
LOGOUT_REQUEST,
LOGOUT_SUCCESS,
LOGOUT_FAILURE,
VERIFY_REQUEST,
          VERIFY_SUCCESS,
        } from "../actions";
 11
12
13
14
          state = {
            isLoggingIn: false,
 15
             isLoggingOut: false,
  16
17
             isVerifying: false,
             loginError: false,
            logoutError: false,
isAuthenticated: false,
 19
20
21
22
          },
action
  23
  24
          switch (action.type) {
            case LOGIN_REQUEST:
 25
26
27
28
29
30
31
32
33
                 ...state,
isLoggingIn: true,
                 loginError: false,
             };
case LOGIN_SUCCESS:
                 ...state,
                 isLoggingIn: false,
                 isAuthenticated: true,
                 user: action.user,
```

```
JS auth.js X JS configureStore.js
                                                   index.html
pertemuan-keduabelas > firebase-login > reducers > JS au
               case LOGIN_FAILURE:
  40
                    ...state,
                    isLoggingIn: false,
isAuthenticated: false,
                     loginError: true,
               };
case LOGOUT_REQUEST:
 44
45
46
47
48
                 return {
    ...state,
    isLoggingOut: true,
 50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
71
72
73
74
                     logoutError: false,
               };
case LOGOUT_SUCCESS:
                 return {
                    ...state,
                    isLoggingOut: false,
                    isAuthenticated: false,
                    user: {},
               };
case LOGOUT_FAILURE:
                    ...state,
isLoggingOut: false,
logoutError: true,
               };
case VERIFY_REQUEST:
                    ...state,
isVerifying: true,
verifyingError: false,
               };
case VERIFY_SUCCESS:
                    ...state,
isVerifying: false,
```

B. ConfigureStore.js

```
index.html ...\public
                        index.html ...\build
                                               JS index.js ...\reducers
                                                                       JS configureStore.js X
pertemuan-keduabelas > firebase-login > src > called > JS configureStore.js > ...
        import { applyMiddleware, createStore } from "redux";
       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,
           applyMiddleware(thunkMiddleware)
 11
 12
 13
         store.dispatch(verifyAuth());
 14
         return store;
 15
```

C. Index.html (Public)

```
JS index.js ...\reducers
                                                                     index.html ...\(public) X
 index.html ...\build
                                               JS configureStore.js
🦸 pertemuan-keduabelas > firebase-login > (public) > 🥫 index.html > 🍪 html > ᢒ head > ᢒ link
      <!DOCTYPE html>
  2
      <html>
  4
           <meta charset="utf-8">
           <meta name="viewport" content="width=device-width, initial-scale=1">
  5
  6
           <title>Welcome to Firebase Hosting</title>
  8
        link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Roboto:300,400,500
           <!-- update the version number as needed -->
           <script defer src="/ /firebase/7.14.1/firebase-app.js"></script>
```

D. Root.js

```
index.html ...\(public)
                                  JS Root.js
                                                   JS index.js ...\src
re.js
                                                                           •
  import React from "react";
import { Provider } from "react-redux";
import { BrowserRouter as Router } from "react-router-dom";
     3
          import App from "./App";
         import configureStore from "./called/configureStore";
     5
     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;
```

E. Index.js (src)

F. App.js (src)

```
JS H
               JS index.js ...\src
                                    JS App.js
                                                       JS Login.js
Root.js
                                                                                *
  🔰 pertemuan-keduabelas > firebase-login > src > JS App.js > 🕅 App
         import React from "react";
import { Route, Switch } from "react-router-dom";
import { connect } from "react-redux";
    2
          import ProtectedRoute from "../components/ProtectedRoute";
         import Home from "../components/Home";
import Login from "../components/Login";
          function App(props) {
           const { isAuthenticated, isVerifying } = props;
   10
              <Switch>
   11
                ProtectedRoute
   12
                   exact
   13
                   path="/"
   14
                   component={Home}
                   isAuthenticated={isAuthenticated}
   15
   16
                   isVerifying={isVerifying}
   17
                 <Route path="/login" component={Login} />
   18
   19
               </Switch>
   20
   21
          function mapStateToProps(state) {
   22
   23
   24
              isAuthenticated: state.auth.isAuthenticated,
   25
              isVerifying: state.auth.isVerifying,
   26
   27
          export default connect(mapStateToProps)(App);
   28
```

G. Components

1. Home.js

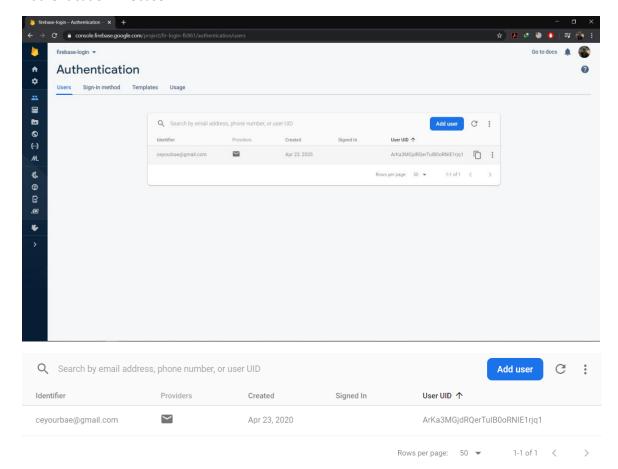
2. Login.js

```
JS Login.js
k.html ...\(public)
                      JS Root.js
                                           JS index.js ...\src
                                                                   JS App.js
   🦸 pertemuan-keduabelas > firebase-login > components > → Login.js > ...
           import React, { Component } from "react";
           import { connect } from "react-redux";
           import { Redirect } from "react-redux;
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";
    10
           import Typography from "@material-ui/core/Typography";
           import Paper from "@material-ui/core/Paper";
import Container from "@material-ui/core/Container";
    11
    12
           const styles = () => ({
    13
               "@global": {
    14
    15
                 body: {
                   backgroundColor: "#fff",
    16
    17
    18
    19
              paper: {
                marginTop: 100,
    20
    21
                 display: "flex",
    22
                 padding: 20,
    23
                 flexDirection: "column",
                alignItems: "center",
    24
    25
    26
              avatar: {
                marginLeft: "auto",
marginRight: "auto",
backgroundColor: "#f50057",
    27
    28
    29
    30
    31
              form: {
    32
                marginTop: 1,
    33
    34
              errorText: {
                 color: "#f50057",
    35
                 marginBottom: 5,
    36
    37
                 textAlign: "center",
```

```
JS Root.js
                                                                              JS Login.js X
                                      JS index.js ...\src
                                                            JS App.js
...\(public)
  🔰 pertemuan-keduabelas > firebase-login > components > JS Login.js >
         class Login extends Component {
           tass togin extends component {
    state = { email: "", password: "" };
    handleEmailChange = ({ target }) => {
        this.setState({ email: target.value });
}
   41
  42
43
   44
   45
            handlePasswordChange = ({ target }) => {
   46
              this.setState({ password: target.value });
   47
            handleSubmit = () => {
  const { dispatch } = this.props;
   48
   49
   50
              const { email, password } = this.state;
              dispatch(loginUser(email, password));
   52
            render() {
  const { classes, loginError, isAuthenticated } = this.props;
   53
   54
   55
              if (isAuthenticated) {
   56
                return <Redirect to="/" />;
              } else {
   57
   58
   59
                   <Container component="main" maxWidth="xs">
   60
                      <Paper className={classes.paper}>
   61
                       <Avatar className={classes.avatar}>
   62
                          <LockOutlinedIcon />
   63
   64
                        <Typography component="h1" variant="h5">
   65
                          Sign in
   66
                        </Typography>
   67
                        <TextField
   68
                          variant="outlined"
   69
                          margin="normal"
   70
71
72
                          fullWidth
                          id="email
                          label="Email Address"
   73
74
                          name="email"
                          onChange={this.handleEmailChange}
```

```
JS index.js ...\src
                                                        JS App.js
html ...\(public) JS Root.js
                                                                         JS Login.js X JS Hom
 variant="outlined"
  79
                         fullWidth
                        name="password"
label="Password"
  80
 81
82
                         type="password"
                        id="password"
onChange={this.handlePasswordChange}
  83
 84
85
 86
87
                      {loginError && (
                          Typography component="p" className={classes.errorText}>
Incorrect email or password.
 88
89
90
                         </Typography>
 92
93
94
                        type="button"
                        fullWidth
                        variant="contained"
                        color="primary
 96
97
                        className={classes.submit}
onClick={this.handleSubmit}
  98
  99
                        Sign In
 100
 101
 102
                 </Container>
 103
 104
 105
 106
 107
        function mapStateToProps(state) {
 108
 109
             isLoggingIn: state.auth.isLoggingIn,
             loginError: state.auth.loginError, isAuthenticated; state.auth.isAuthenticated,
 110
111
```

H. Authentication Firebase



I. Output







This is your app's protected area.

Any routes here will also be protected

Logout