## **TUGAS INDIVIDU**

# **Pemrograman Berbasis Framework**

## Redux dan HOC

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# PROGRAM STUDI D-IV TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG

2020

#### **Praktikum**

### Langkah-Langkah:

- 1. Buat dan install redux terlebih dahulu
- 2. Install form dengan kode 'npm install --save redux react-redux redux-form'
- 3. Ubah file index.html pada folder /public/index.html seperti sebagai berikut :

```
index.html - 15-KarinaWidyal - Visual Studio Code
File Edit Selection View Go Debug Terminal Help
  EXPLORER
                       o index.html X JS App.js
                                                    JS index.js

■ OPEN EDITORS

                         1 <!DOCTYPE html>
                              <html lang="en">
  × ⇔ index.html p... M
    JS App.js src M
                             <head>
    JS index.js src
                               <meta charset="utf-8">
    {} package.json M
                                <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

▲ 15-KARINAWIDYAI

                                <meta name="theme-color" content="#000000">
  ▶ node_modules
                               <link rel="manifest" href="%PUBLIC_URL%/manifest.json">
                               <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">

■ public
                               <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bulma/0.6.2/css/bulma.min.css">
   🛊 favicon.ico
                        11
                               <title>React App</title>
   </head>
                        12
   logo192.png
                        13

    □ logo512.png

                             <body>
                        14
   {} manifest.json
                        15
                               <noscript>
                        16
                                You need to enable JavaScript to run this app.

            ≡ robots.txt

                               </noscript>
                               <div id="root"></div>
   # App.css
                             </body>
```

4. Ubah file App.js pada folder /src/App.js sebagai berikut :

```
index.html JS App.js X JS index.js
 EXPLORER
                             import React, { Component } from 'react';

■ OPEN EDITORS

                         2 import { reduxForm, Field } from 'redux-form';
  index.html p... M
                             import logo from './logo.svg';
 X JS App.js src M
                       4 import './App.css';
   JS index.js src M
                      5 let SignInForm = props => {
6     const { handleSubmit } = **
4 15-K... 눱 🖆 💍 🗊
                              const { handleSubmit } = props;
 ▶ node_modules
                              return <form onSubmit={handleSubmit} className="form">

■ public

                        8
                               <div className="field">
                        9
                                  <div className="control">
  * favicon.ico
                                   <Field name="firstName" component={renderField} type="text" label="First Name" />
                      10

⇔ index.html M

                       11
                                  </div>
  logo192.png
                               </div>
                        12
  logo512.png
                       13
                                <div className="field">
  {} manifest.json
                                 <div className="control">
                       14

    ≡ robots.txt

                       15
                                   <Field name="lastName" component={renderField} type="text" label="Last Name" />
                       16

✓ src

                                 </div>
                       17
  # App.css
                       18
                                <div className="field">
JS App.js M
                      19
                                  <div className="control">
  JS App.test.js
                                   <Field name="email" component={renderField} type="email" label="Email Address" />
                       20
  # index.css
                        21
                                   </div>
  JS index.js
                       22
                                 </div>
                        23
                                <div className="field">
 🔓 logo.svg
                        24
                                  <div className="control">
  JS serviceWorker.js
                       25
                                   <Field name="age" component={renderField} type="number" label="Age" />
  JS setupTests.js
                                  </div>
                       26

    gitignore

                        27
                                 </div>
{} package-lock.json M
                       28
                                <div className="field">
 {} package.json
                       29
                                  <div className="control">
(i) README.md
                        30
                                     <label className="label">Proficiency</label>
                        31
                                     <div className="select">
                                       <Field className="input" name="proficiency" component="select">
                        32
                        33
                                         <option />
                                         <option value="beginner">Beginner Dev</option>
▶ OUTLINE
```

```
EXPLORER
                       o index.html
                                   JS App.js X JS index.js
                                          <option value="intermediate">Intermediate Dev</option>

▲ OPEN EDITORS

                                          <option value="expert">Expert Dev</option>
                         36
    ⇔ index.html p... M
                         37
  X JS App.js src M
                                     </div>
                        38
   JS index.is src
                  M
                                   </div>
                        39
▲ 15-KARINAWIDYAI
                        40
                                  </div>
 ▶ node_modules
                        41
                                  <div className="field">
                        42
                                    <div className="control">

■ public

                                     <label className="label">Gender</label>
                         43
  * favicon.ico
                        44
                                      <label className="radio">
  index.html
                                        <Field name="gender" component="input" type="radio" value="male" />
                        45
  46
  logo512.png
                        47
                                       Male
  {} manifest.json
                        48
                              </label>
                        49
                                      <label className="radio">

≡ robots.txt

                        50
                                        <Field name="gender" component="input" type="radio" value="female" />
  51
  # App.css
                        52
                                        Female
  JS App.js
                        53
                              </label>
  JS App.test.js
                        54
                                   </div>
  # index.css
                         55
                                  </div>
                                  <div className="field">
  JS index.js
                        56
                        57
                                   <div className="control">
  🔓 logo.svg
                                      <label className="checkbox">
                        58
  JS serviceWorker.js
                                        <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
                        59
  JS setupTests.js
                        60
                                        Save Details
 gitignore
                        61
                              </label>
 {} package-lock.json M
                        62
                                  </div>
 {} package.json
                        63
                                  </div>
                                  <div className="field">
                        64
 (i) README.md
                        65
                                    <div className="control">
                                     <label className="label">Message</label>
                        66
                         67
                                      <Field className="textarea" name="message" component="textarea" />
                                    </div>
                         68
▶ OUTLINE
  EXPLORER.
                                     JS App.js
                                                   x Js index.is
                                    <div className="field">
                          70

▲ OPEN EDITORS

                          71
                                      <div className="control">
   index.html p... M
                                      <button className="button is-link">Submit</button>
                          72
  X JS App.js src
                  M
                          73
                                      </div>
    JS index.js src
                   М
                                    </div>
                          74
▲ 15-KARINAWIDYAI
                          75
                                  </form>;
  ▶ node_modules
                          76
                                };
                          77
                                const validate = val => {

■ public
                          78
                                  const errors = {};
  * favicon.ico
                          79
                                  if (!val.firstName) {
  index.html
                                   console.log('First Name is required');
                          80
  81
                                    errors.firstName = 'Required';
  82
  {} manifest.ison
                                  if (!val.lastName) {
                          83

            ≡ robots.txt

                          84
                                    console.log('Last Name is required');
                          85
                                    errors.lastName = 'Required';
  86
   # App.css
                          87
                                  if (!val.email) {
  JS App.js
                                    console.log('email is required');
                          88
  JS App.test.js
                                    errors.email = 'Required';
                          89
   # index.css
                          90
                                  } else if (!/^.+@.+$/i.test(val.email)) {
                          91
                                    console.log('email is invalid');
  Js index.js
                          92
                                    errors.email = 'Invalid email address';
  logo.svg
                          93
  JS serviceWorker.js
                                  if (!val.age) {
                          94
  JS setupTests.is
                          95
                                   errors.age = 'Required'
 .gitignore
                                  } else if (isNaN(Number(val.age))) {
                          96
 {} package-lock.json M
                          97
                                   errors.age = 'Must be a number'
 {} package.json
                          98
                                  } else if (Number(val.age) < 18) {
                          99
                                   errors.age = 'Sorry, you must be at least 18 years old'
 (i) README.md
                         100
                         101
                                  return errors;
                         102
                                const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
▶ OUTLINE
```

```
EXPLORER
                       index.html
                                      JS App.js
                                                 x JS index.js
                                  <div className="control">
                       105
<label className="field">{label}</label>
                       106
 x <> index.html p... M
                       107
                                    <input className="input" {...input} placeholder={label} type={type} />
 X JS App.js src M
                                    {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
                       108
   JS index.js src
                       109
                                  </div>
4 15-KARINAWIDYAI
                                </div>
                       110
 node modules
                       111

■ public
                       112
                              SignInForm = reduxForm({
                       113
                                form: 'signIn',
  * favicon.ico
                                validate,
                       114
  index.html
                       115
                              })(SignInForm);
  logo192.png
                              class App extends Component {
                       116
  logo512.png
                                handleSignIn = values => {
                       117
  {} manifest.ison
                       118
                                 console.log(values);
                       119

    ≡ robots.txt

                                render() {

✓ src

                       120
                       121
                                 return (
  # App.css
                       122
                                    <div className="App">
  JS App.js
                                      <header className="App-header">
                       123
  JS App.test.js
                       124
                                       <img src={logo} className="App-logo" alt="logo" />
  # index.css
                                        <h1 className="App-title">Welcome to React x redux-form</h1>
                       125
                                      </header>
  JS index.js
                       126
                       127
                                      <div className="container">
  🖆 logo.svg
                                       128
  JS serviceWorker.js
                                        Contact Form
                       129
  JS setupTests.js
                       130
 gitignore
                                      <SignInForm onSubmit={this.handleSignIn} />
                       131
 {} package-lock.json M
                       132
                                      </div>
{} package.json
                       133
                                    </div>
                       134
                                  );
(i) README.md
                       135
                       136
                              export default App;
```

## 5. Ubah file /src/index.js sebagai berikut :

```
EXPLORER
                        o index.html
                                                          JS index.js
                                         JS App.js
                                import React from 'react';

■ OPEN EDITORS

                                import ReactDOM from 'react-dom';
   index.html p... M
                                import { createStore, combineReducers } from 'redux';
   JS App.js src
                   М
                                import { Provider } from 'react-redux';
 x Js index.js src
                   М
                                import { reducer as formReducer } from 'redux-form';
▲ 15-KARINAWIDYAI
                               import './index.css';
 node_modules
                           7
                                import App from './App';
                                import * as serviceWorker from './serviceWorker.js';

■ public
                           8
                           9
  * favicon.ico
                                const rootReducer = combineReducers({
                          10
  index.html
                          11
                                    form: formReducer,
  logo192.png
                          12
                                });
  logo512.png
                          13
  {} manifest.json
                          14
                                const store = createStore(rootReducer);
  ≡ robots.txt
                          15
                          16
                                ReactDOM.render(
 17
                                    <Provider store={store}>
   # App.css
                          18
                                        <App />
  JS App.js
                          19
                                    </Provider>, document.getElementById('root')
  JS App.test.js
                          20
                                );
  # index.css
                          21
  Js index.js
                   M
                          22
                                serviceWorker.register();
```

## Hasil running:

Terdapat tampilan logo react, dan terdapat form hasil validasi redux form ke dalam bentuk Higher Order Component

