

# **TUGAS INDIVIDU**

## **Modul 7**

### **Redux dan Hoc**

**Disusun sebagai :**

**MATA KULIAH : PEMROGRAMAN WEB BERBASIS FRAMEWORK**

**Oleh :**

**Febri Toriqkhul Khoiri / 1741720171**

**TI 3-A**



**PROGRAM STUDI D-IV TEKNIK INFORMATIKA**

**JURUSAN TEKNOLOGI INFORMASI**

**POLITEKNIK NEGERI MALANG**

**2020**

## PRAKTIKUM

1. Pertama buat dan install redux dengan menggunakan npx 'create-react-app contact-redux'.

```
PS D:\Matkul Smt 6\Pemrograman Berbasis Framework\Project\modul7-hoc> npx create-react-app contact-redux

Creating a new React app in D:\Matkul Smt 6\Pemrograman Berbasis Framework\Project\modul7-hoc\contact-redux.

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

> core-js@2.6.11 postinstall D:\Matkul Smt 6\Pemrograman Berbasis Framework\Project\modul7-hoc\contact-redux\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js@3.6.4 postinstall D:\Matkul Smt 6\Pemrograman Berbasis Framework\Project\modul7-hoc\contact-redux\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js-pure@3.6.4 postinstall D:\Matkul Smt 6\Pemrograman Berbasis Framework\Project\modul7-hoc\contact-redux\node_modules\core-js-pure
> node -e "try{require('./postinstall')}catch(e){}"
```

2. Kemudian contact form dengan menggunakan 'npm install --save redux react-redux redux-form'.

```
PS D:\Matkul Smt 6\Pemrograman Berbasis Framework\Project\modul7-hoc\contact-redux> npm install --save redux react-redux redux-form
npm WARN tsutils@3.17.1 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 redux-form@8.3.1 requires a peer of immutable@^3.8.2 but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\webpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
```

3. Lalu setelah proses instalasi selesai, ubah file yang ada pada index.html yang ada pada folder 'public' menjadi seperti di bawah ini.

```
index.html • App.js index.js
contact-redux > public > index.html > ...
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7   <meta name="theme-color" content="#000000">
8   <link rel="manifest" href="%PUBLIC_URL%/manifest.json">
9   <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
10  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bulma/0.6.2/css/bulma.min.css">
11  <title>React App</title>
12 </head>
13
14 <body>
15   <noscript>
16     You need to enable JavaScript to run this app.
17   </noscript>
18   <div id="root"></div>
19 </body>
20
21 </html>
```

4. Selanjutnya, ubah file **App.js** yang berada pada folder '**src**' menjadi seperti code berikut ini.

```
index.html ● App.js × index.js
contact-redux > src > App.js > ...
1 import React, { Component } from 'react';
2 import { reduxForm, Field } from 'redux-form';
3 import logo from './logo.svg';
4 import './App.css';
5
6 let SignInForm = props => {
7   const { handleSubmit } = props;
8   return <form onSubmit={handleSubmit} className="form">
9     <div className="field">
10       <div className="control">
11         <Field name="firstName" component={renderField} type="text" label="First Name" />
12       </div>
13     </div>
14
15     <div className="field">
16       <div className="control">
17         <Field name="lastName" component={renderField} type="text" label="Last Name" />
18       </div>
19     </div>
20
21     <div className="field">
22       <div className="control">
23         <Field name="email" component={renderField} type="email" label="Email Address" />
24       </div>
25     </div>
26
27     <div className="field">
28       <div className="control">
29         <Field name="age" component={renderField} type="number" label="Age" />
30       </div>
31     </div>
32
33     <div className="field">
34       <div className="control">
35         <label className="label">Proficiency</label>
36         <div className="select">
37           <Field className="input" name="proficiency" component="select">
38             <option />
39             <option value="beginner">Beginner Dev</option>
40             <option value="intermediate">Intermediate Dev</option>
41             <option value="expert">Expert Dev</option>
42           </Field>
43         </div>
44       </div>
45     </div>
46
```

```

47     <div className="field">
48       <div className="control">
49         <label className="label">Gender</label>
50         <label className="radio">
51           <Field name="gender" component="input" type="radio" value="male" />
52           {' '}
53           Male
54         </label>
55         <label className="radio">
56           <Field name="gender" component="input" type="radio" value="female" />
57           {' '}
58           Female
59         </label>
60       </div>
61     </div>
62
63     <div className="field">
64       <div className="control">
65         <label className="checkbox">
66           <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
67           Save Details
68         </label>
69       </div>
70     </div>

```

```

72     <div className="field">
73       <div className="control">
74         <label className="label">Message</label>
75         <Field className="textarea" name="message" component="textarea" />
76       </div>
77     </div>
78
79     <div className="field">
80       <div className="control">
81         <button className="button is-link">Submit</button>
82       </div>
83     </div>
84   </form>;
85 };
86

```

```

87   const validate = val => {
88     const errors = {};
89     if (!val.firstName) {
90       console.log('First Name is required');
91       errors.firstName = 'Required';
92     }
93     if (!val.lastName) {
94       console.log('Last Name is required');
95       errors.lastName = 'Required';
96     }
97     if (!val.email) {
98       console.log('email is required');
99       errors.email = 'Required';
100    } else if (!/^.+@.+$/.test(val.email)) {
101      console.log('email is invalid');
102      errors.email = 'Invalid email address';
103    }
104    if (!val.age) {
105      errors.age = 'Required'
106    } else if (isNaN(Number(val.age))) {
107      errors.age = 'Must be a number'
108    } else if (Number(val.age) < 18) {
109      errors.age = 'Sorry, you must be at least 18 years old'
110    }
111    return errors;
112  };

```

```

114   const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
115     <div>
116       <div className="control">
117         <label className="field">{label}</label>
118         <input className="input" {...input} placeholder={label} type={type} />
119         {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
120       </div>
121     </div>
122   )
123
124   SignInForm = reduxForm({
125     form: 'signIn',
126     validate,
127   })(SignInForm);

```

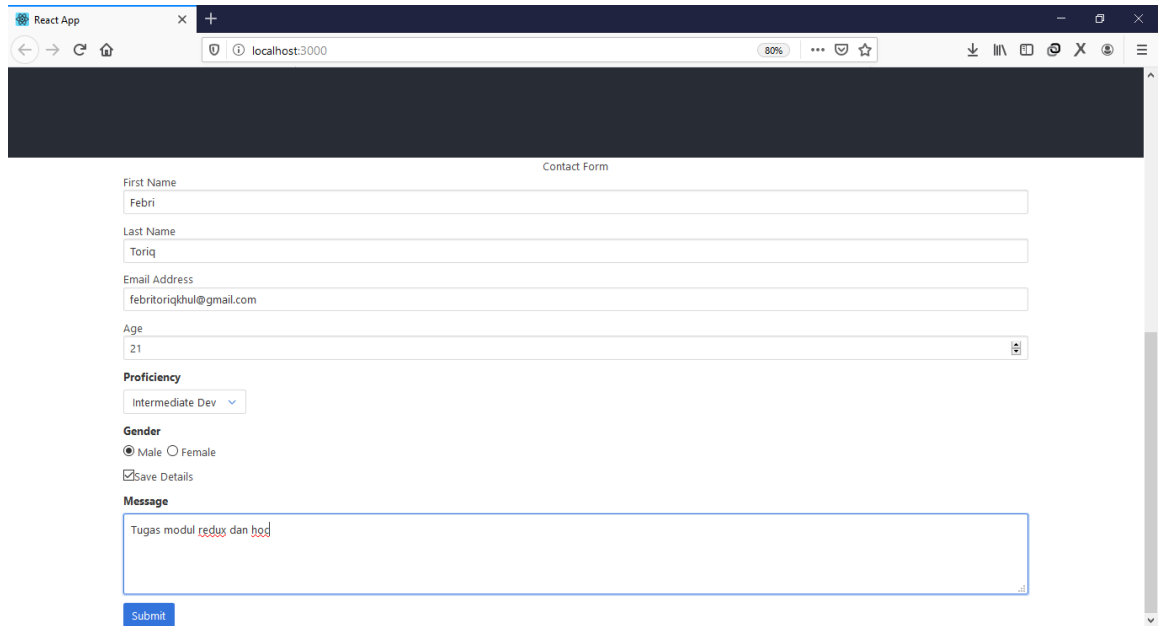
```
129 class App extends Component {
130   handleSignIn = values => {
131     console.log(values);
132   };
133
134   render() {
135     return (
136       <div className="App">
137         <header className="App-header">
138           <img src={logo} className="App-logo" alt="logo" />
139           <h1 className="App-title">Welcome to React x redux-form</h1>
140         </header>
141         <div className="container">
142           <p className="App-intro">
143             Contact Form
144           </p>
145           <SignInForm onSubmit={this.handleSignIn} />
146         </div>
147       </div>
148     );
149   }
150 }
151
152 export default App;
```

5. Kemudian step selanjutnya adalah ubah file **index.js** yang ada di **'src/index.js'** menjadi seperti code di bawah ini.



```
contact-redux > src > index.js > ...
1  import React from 'react';
2  import ReactDOM from 'react-dom';
3
4  import { createStore, combineReducers } from 'redux';
5  import { Provider } from 'react-redux';
6  import { reducer as formReducer } from 'redux-form';
7
8  import './index.css';
9  import App from './App';
10 import * as serviceWorker from './serviceWorker';
11
12 const rootReducer = combineReducers({
13   form: formReducer,
14 });
15
16 const store = createStore(rootReducer);
17
18 ReactDOM.render(
19   <Provider store={store}>
20     <App />
21   </Provider>,
22   document.getElementById('root')
23 );
24
25 serviceWorker.unregister();
```

6. Yang terakhir adalah running program dengan **npm start** dan lihat hasilnya pada browser.



The screenshot shows a web browser window with the title 'React App' and the address bar displaying 'localhost:3000'. The page content is a contact form titled 'Contact Form'. The form includes the following fields and elements:

- First Name:** Text input field containing 'Febri'.
- Last Name:** Text input field containing 'Toriq'.
- Email Address:** Text input field containing 'febritorikhul@gmail.com'.
- Age:** Text input field containing '21'.
- Proficiency:** A dropdown menu with the selected value 'Intermediate Dev'.
- Gender:** Radio buttons for 'Male' (selected) and 'Female'.
- Save Details:** A checked checkbox.
- Message:** A text area containing the text 'Tugas modul redux dan hook'.
- Submit:** A blue button at the bottom of the form.