LAPORAN PRAKTIKUM

PEMROGRAMAN BERBASIS FRAMEWORK

Pertemuan Minggu-7

Modul 7 – REDUX Dan HOC

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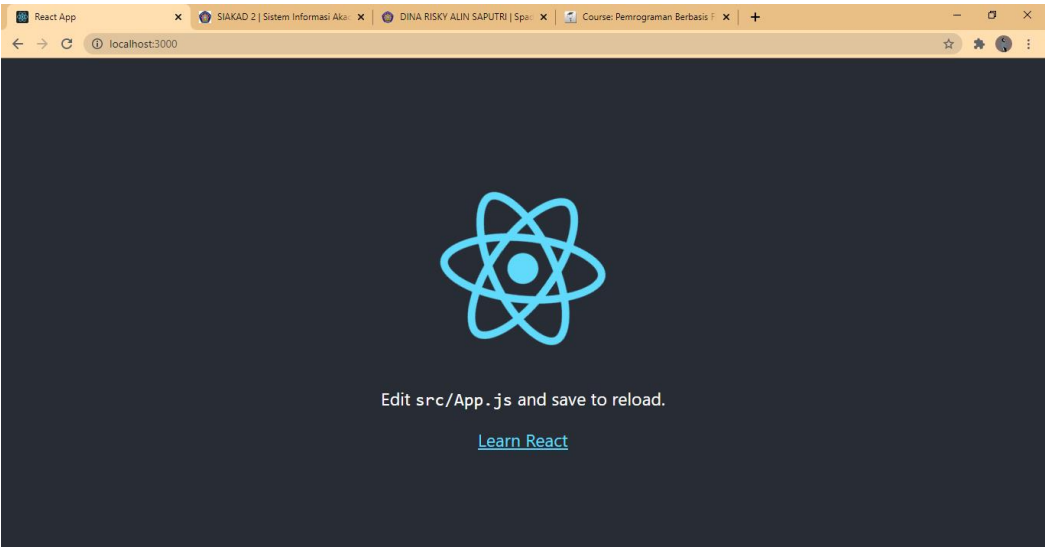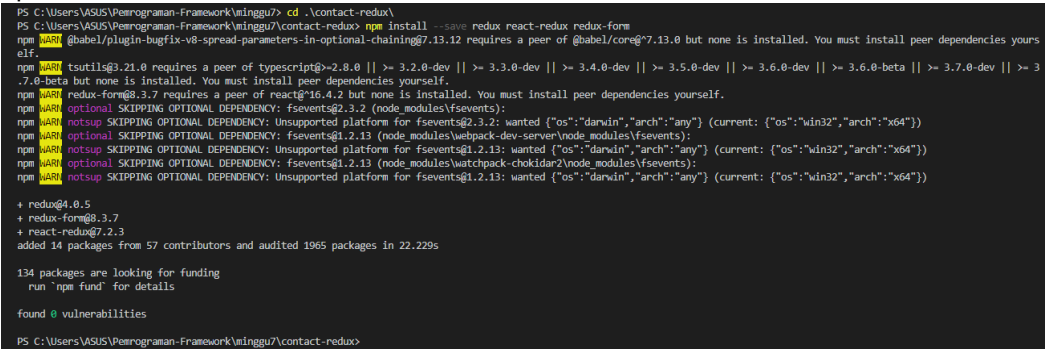NIM   : 1841720016

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PROGRAM STUDI TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2021

Praktikum

Langkah Praktikum

Langkah	Keterangan

1	Buat dan install redux
	
	`npx create-react-app contact-redux`
	
	`npm install -g create-react-app`
	
	`create-react-app contact-redux`
	`npm start`

| | ```
  npm start
Compiled successfully!

You can now view contact-redux in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.1.7:3000

Note that the development build is not optimized.
To create a production build, use npm run build.
```<br> |
| 2 | **Install Form**

`npm install --save redux react-redux redux-form`
 |
| 3 | Ubah file **index.html** pada folder **/public/index.html** |

```
contact-redux > public > <> index.html > ⊘ html > ⊘ head
 1    <!DOCTYPE html>
 2    <html lang="en">
 3     <head>
 4     <meta charset="utf-8">
 5     <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
 6     <meta name="theme-color" content="#000000">
 7
 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
12     <title>React App</title>
13     </head>
14     <body>
15     <noscript>
16     You need to enable JavaScript to run this app.
17     </noscript>
18     <div id="root"></div>
19
20     </body>
21    </html>
```

4	Ubah file **App.js** pada folder **/src/App.js**

5	Ubah file **/src/index.js**
	
	``
	contact-redux > src > JS App.js > [∅] SignInForm
	 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 <div className="field">
	15 <div className="control">
	16 <Field name="lastName" component={renderField} type="text" label="Last Name" />
	17 </div>
	18 </div>
	19 <div className="field">
	20 <div className="control">
	``

```
21              <b><Field name="email" component={renderField} type="email" label="Email Address" /></b>
22            </div>
23          </div>
24  ∨    <div className="field">
25  ∨      <div className="control">
26            <b><Field name="age" component={renderField} type="number" label="Age" /></b>
27          </div>
28        </div>
29  ∨    <div className="field">
30  ∨      <div className="control">
31            <label className="label">Proficiency</label>
32  ∨        <div className="select">
33  ∨          <Field className="input" name="proficiency" component="select">
34              <option />
35              <option value="beginner">Beginner Dev</option>
36              <option value="intermediate">Intermediate Dev</option>
37              <option value="expert">Expert Dev</option>
38            </Field>
39          </div>
40        </div>
41        </div>
42      <div className="field">
43        <div className="control">
44          <label className="label">Gender</label>
45          <label className="radio">
46            <Field name="gender" component="input" type="radio" value="male" />
47            {' '} Male </label>
48          <label className="radio">
49            <Field name="gender" component="input" type="radio" value="female" />
50            {' '} Female </label>
51        </div>
52      </div>
53
54      <div className="field">
55        <div className="control">
56          <label className="checkbox">
57            <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
58            {' '} Save Details </label>
59        </div>
60      </div>
61      <div className="field">
62        <div className="control">
63          <label className="label">Message</label>
64          <Field className="textarea" name="message" component="textarea" />
65        </div>
66      </div>
67      <div className="field">
68        <div className="control">
69          <button className="button is-link">Submit</button>
70        </div>
71      </div>
72    </form>;
73  };
74
75  const validate = val => {
76    const errors = {};
77    if (!val.firstName) {
78      console.log('First Name is required');
79      errors.firstName = 'Required';
80    }
```

```
81      if (!val.lastName) {
82        console.log('Last Name is required');
83        errors.lastName = 'Required';
84      }
85      if (!val.email) {
86        console.log('email is required');
87        errors.email = 'Required';
88      } else if (!/^.+@.+$/i.test(val.email)) {
89        console.log('email is invalid');
90        errors.email = 'Invalid email address';
91      }
92      if (!val.age) {
93        errors.age = 'Required'
94      } else if (isNaN(Number(val.age))) {
95        errors.age = 'Must be a number'
96      } else if (Number(val.age) < 18) {
97        errors.age = 'Sorry, you must be at least 18 years old'
98      }
99      return errors;
100    };
```

```
101
102    const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
103      <div>
104        <div className="control">
105          <label className="field">{label}</label>
106          <input className="input" {...input} placeholder={label} type={type} />
107          {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
108        </div>
109      </div>
110    )
111
112    SignInForm = reduxForm({
113      form: 'signIn',
114      validate,
115    })(SignInForm);
116
117    class App extends Component {
118      handleSignIn = values => {
119        console.log(values);
120      };
```

```
121      render() {
122        return (
123          <div className="App">
124            <header className="App-header">
125              <img src={logo} className="App-logo" alt="logo" />
126              <h1 className="App-title">Welcome to React x redux-form</h1>
127            </header>
128            <div className="container">
129              <b><p className="App-intro">Contact Form</p></b>
130              <SignInForm onSubmit={this.handleSignIn} />
131            </div>
132          </div>
133        );
134      }
135    }
136
137    export default App;
```

| 6 | Running hasilnya dan buatlah laporan |

Setelah diisi form :

Message

Hallo Pemograman Berbasis Framework

Submit

Ketika di Submit :

Klik kanan lalu pilih inspect

Keterangan :

1. Importing redux ke dalam react app

```
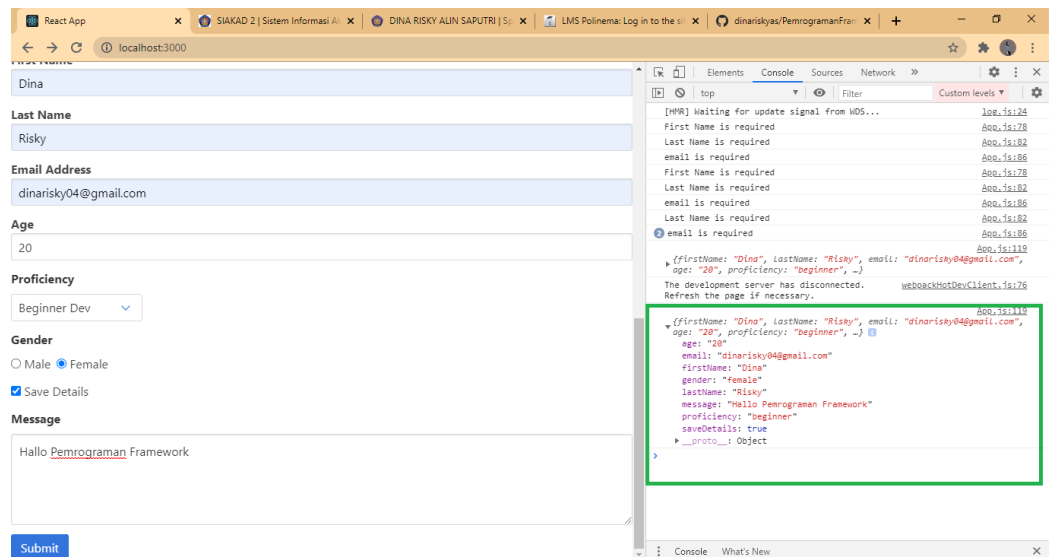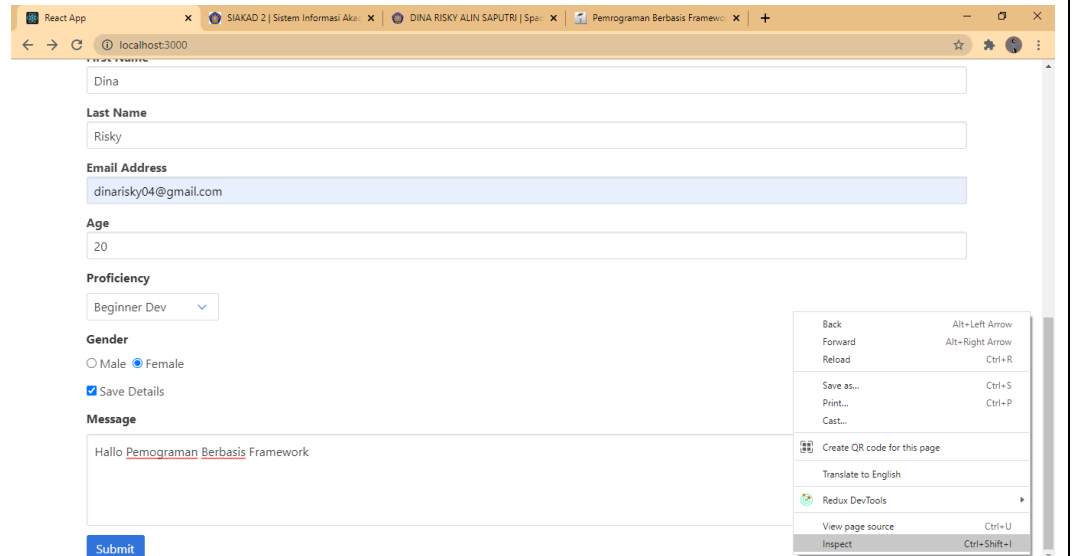3    import { createStore, combineReducers } from 'redux';
4    import { Provider } from 'react-redux';
5    import { reducer as formReducer } from 'redux-form';
```

2. Mengkoneksikan Form ke redux form

```
contact-redux > src > JS App.js > ⅏ App > 🔧 handleSignIn
111
112    SignInForm = reduxForm({
113      form: 'signIn',
114    })(SignInForm);
115
```

3. Validasi redux form ke dalam Higher Order Component

```
116    SignInForm = reduxForm({
117      form: 'signIn',
118      validate,
119    })(SignInForm);
120
```

4. Membangun HOC dalam form redux

```
contact-redux > src > JS App.js > [∅] SignInForm
101
102  const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
103    <div>
104      <div className="control">
105        <label className="field">{label}</label>
106        <input className="input" {...input} placeholder={label} type={type} />
107        {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
108      </div>
109    </div>
110  )
111
```

Link Github:
https://github.com/dinariskyas/PemrogramanFramework2021/tree/master/minggu7/contact-redux

Link Youtube :
https://youtu.be/5ojcTDpM-_0