Laporan

HOC

Waktu Pelaksanaan   : Kamis, 18 Maret 2019 Pukul 12.50 – 18.00

Mata Kuliah   : Pemrograman Berbasis Framework

Tempat   : Gedung Sipil Lantai 7 Ruang LPR 5

Pelaksana   : Satria Putra Sabana

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Kelas   : TI – 3G

Praktikum

1. Membuat project baru bernama contact-redux

```
> create-react-app contact-redux
```

2. Install form

```
> npm install --save redux react-redux redux-form
```

3. Mengubah file index.html yang berdapa difolder public menjadi seperti berikut

```
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> You need to enable JavaScript to run this app. </noscript>
16    <div id="root"></div>
17  </body>
18
19  </html>
```

4. Kemudian mengubah file app.js yang berada pada folder src menjadi seperti berikut

```jsx
import React, { Component } from 'react';
import { reduxForm, Field } from 'redux-form';
import logo from './logo.svg';
import './App.css';


let SignInForm = props => {
  const { handleSubmit } = props;
  return <form onSubmit={handleSubmit} className="form">
    <div className="field">
      <div className="control">
        <Field name="firstName" component={renderField} type="text" label="First Name" />
      </div>
    </div>

    <div className="field">
      <div className="control">
        <Field name="lastName" component={renderField} type="text" label="Last Name" />
      </div>
    </div>

    <div className="field">
      <div className="control">
        <Field name="email" component={renderField} type="email" label="Email Address" />
      </div>
    </div>

    <div className="field">
      <div className="control">
        <Field name="age" component={renderField} type="number" label="Age" />
      </div>
    </div>
```

```jsx
        <div className="field">
          <div className="control">
            <label className="label">Proficiency</label>
            <div className="select">
              <Field className="input" name="proficiency" component="select">
                <option />
                <option value="beginner">Beginner Dev</option>
                <option value="intermediate">Intermediate Dev</option>
                <option value="expert">Expert Dev</option>
              </Field>
            </div>
          </div>
        </div>

        <div className="field">
          <div className="control">
            <label className="label">Gender</label>
            <label className="radio">
              <Field name="gender" component="input" type="radio" value="male" />
              {' '}
              Male
            </label>
            <label className="radio">
              <Field name="gender" component="input" type="radio" value="female" />
              {' '}
              Female
            </label>
          </div>
        </div>

        <div className="field">
          <div className="control">
            <label className="checkbox">
              <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
              Save Details
            </label>
          </div>
        </div>
```
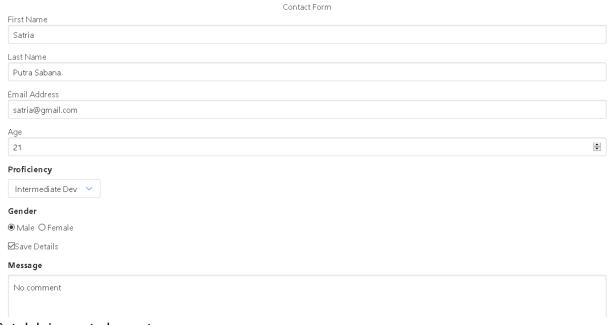
```jsx
66            <label className="checkbox">
67              <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
68              Save Details
69            </label>
70          </div>
71        </div>
72
73        <div className="field">
74          <div className="control">
75            <label className="label">Message</label>
76            <Field className="textarea" name="message" component="textarea" />
77          </div>
78        </div>
79
80        <div className="field">
81          <div className="control">
82            <button className="button is-link">Submit</button>
83          </div>
84        </div>
85
86    </form>;
87  };
88
```

```jsx
89    const validate = val => {
90      const errors = {};
91      if (!val.firstName) {
92        console.log('First Name is required');
93        errors.firstName = 'Required';
94      }
95      if (!val.lastName) {
96        console.log('Last Name is required');
97        errors.lastName = 'Required';
98      }
99      if (!val.email) {
100        console.log('email is required');
101        errors.email = 'Required';
102      } else if (!/^.+@.+$/i.test(val.email)) {
103        console.log('email is invalid');
104        errors.email = 'Invalid email address';
105      }
106      if (!val.age) {
107        errors.age = 'Required'
108      } else if (isNaN(Number(val.age))) {
109        errors.age = 'Must be a number'
110      } else if (Number(val.age) < 18) {
111        errors.age = 'Sorry, you must be at least 18 years old'
112      }
113      return errors;
114    };
115
116    const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
117      <div>
118        <div className="control">
119          <label className="field">{label}</label>
120          <input className="input" {...input} placeholder={label} type={type} />
121          {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
122        </div>
123      </div>
124    )
125
```

```
126    SignInForm = reduxForm({
127      form: 'signIn',
128      validate,
129    })(SignInForm);
130
131    class App extends Component {
132
133      handleSignIn = values => {
134        console.log(values);
135      };
136
137      render() {
138        return (
139          <div className="App">
140            <header className="App-header">
141              <img src={logo} className="App-logo" alt="logo" />
142              <h1 className="App-title">Welcome to React x redux-form</h1>
143            </header>
144            <div className="container">
145              <p className="App-intro">
146                Contact Form
147              </p>
148              <SignInForm onSubmit={this.handleSignIn} />
149            </div>
150          </div>
151        );
152      }
153    }
154
155    export default App;
156
```

5. Kemudian mengubah file index.js menjadi seperti berikut

```
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'; import App from './App';
9   import * as serviceWorker from './serviceWorker';
10
11  const rootReducer = combineReducers({
12    form: formReducer,
13  });
14
15  const store = createStore(rootReducer);
16
17  ReactDOM.render(
18    <Provider store={store}>
19      <App />
20    </Provider>,
21    document.getElementById('root')
22  );
23
24  // If you want your app to work offline and load faster, you can change
25  // unregister() to register() below. Note this comes with some pitfalls.
26  // Learn more about service workers: https://bit.ly/CRA-PWA
27  serviceWorker.unregister();
28
```

6. Kemudian menjalankan package

Contact Form

First Name

Satria

Last Name

Putra Sabana

Email Address

satria@gmail.com

Age

21

Proficiency

Intermediate Dev

Gender

◉ Male ○ Female

☑ Save Details

Message

No comment

Setelah inspect element

```
▼ {…}
    age: "21"
    email: "satria@gmail.com"
    firstName: "Satria"
    gender: "male"
    lastName: "Putra Sabana"
    message: "No comment"
    proficiency: "intermediate"
    saveDetails: true
  ▶ <prototype>: Object { … }
```