

TUGAS PERORANGAN/INDIVIDU

REDUX - HOC

Disusun sebagai

MATA KULIAH : PEMROGRAMAN BERBASIS FRAMEWORK

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**PROGRAM STUDI D-IV TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
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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 ×
public > index.html > html
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 sebagai berikut :

```
index.html JS App.js X
src > JS App.js > [e] 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 let SignInForm = props => {
6   const { handleSubmit } = props;
7   return <form onSubmit={handleSubmit} className="form">
8     <div className="field">
9       <div className="control">
10        <Field name="firstName" component={renderField} type="text" Label="First Name" />
11      </div>
12    </div>
13    <div className="field">
14      <div className="control">
15        <Field name="lastName" component={renderField} type="text" Label="Last Name" />
16      </div>
17    </div>
18    <div className="field">
19      <div className="control">
20        <Field name="email" component={renderField} type="email" Label="Email Address" />
21      </div>
22    </div>
23    <div className="field">
24      <div className="control">
25        <Field name="age" component={renderField} type="number" Label="Age" />
26      </div>
27    </div>
28    <div className="field">
29      <div className="control">
30        <label className="label">Proficiency</label>
31        <div className="select">
32          <Field className="input" name="proficiency" component="select">
33            <option />
34            <option value="beginner">Beginner Dev</option>
35            <option value="intermediate">Intermediate Dev</option>
36            <option value="expert">Expert Dev</option>
37          </Field>
38        </div>
39      </div>
40    </div>
41    <div className="field">
42      <div className="control">
43        <label className="label">Gender</label>
44        <label className="radio">
45          <Field name="gender" component="input" type="radio" value="male" />
46          { ' ' }
47          Male
48        </label>
49        <label className="radio">
50          <Field name="gender" component="input" type="radio" value="female" />
51          { ' ' }
52          Female
53        </label>
54      </div>
55    </div>
56  </form>
57  }
58 }
```

```
index.html JS Appjs X
src > JS Appjs > SignInForm
53 </label>
54 </div>
55 </div>
56 <div className="field">
57 <div className="control">
58 <label className="checkbox">
59 <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
60 Save Details
61 </label>
62 </div>
63 </div>
64 <div className="field">
65 <div className="control">
66 <label className="label">Message</label>
67 <Field className="textarea" name="message" component="textarea" />
68 </div>
69 </div>
70 <div className="field">
71 <div className="control">
72 <button className="button is-link">Submit</button>
73 </div>
74 </div>
75 </form>;
76 };
77 const validate = val => {
78   const errors = {};
79   if (!val.firstName) {
```

```
index.html JS Appjs X
src > JS Appjs > SignInForm
79   if (!val.firstName) {
80     console.log('First Name is required');
81     errors.firstName = 'Required';
82   }
83   if (!val.lastName) {
84     console.log('Last Name is required');
85     errors.lastName = 'Required';
86   }
87   if (!val.email) {
88     console.log('email is required');
89     errors.email = 'Required';
90   } else if (!/^.+@.+$/.test(val.email)) {
91     console.log('email is invalid');
92     errors.email = 'Invalid email address';
93   }
94   if (!val.age) {
95     errors.age = 'Required'
96   } else if (isNaN(Number(val.age))) {
97     errors.age = 'Must be a number'
98   } else if (Number(val.age) < 18) {
99     errors.age = 'Sorry, you must be at least 18 years old'
100   }
101   return errors;
102 };
103 const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
104   <div>
105     <div className="control">
```

```
index.html JS App.js X
src > JS App.js > [?] SignInForm
105     <div className="control">
106       <label className="field">{label}</label>
107       <input className="input" {...input} placeholder={label} type={type} />
108       {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
109     </div>
110   </div>
111 )
112 SignInForm = reduxForm({
113   form: 'signIn',
114   validate,
115 })(SignInForm);
116 class App extends Component {
117   handleSignIn = values => {
118     console.log(values);
119   };
120   render() {
121     return (
122       <div className="App">
123         <header className="App-header">
124           <img src={logo} className="App-logo" alt="logo" />
125           <h1 className="App-title">Welcome to React x redux-form</h1>
126         </header>
127         <div className="container">
128           <p className="App-intro">
129             Contact Form
130           </p>
131           <SignInForm onSubmit={this.handleSignIn} />


```

```
index.html JS App.js X
src > JS App.js > [?] SignInForm
123     <header className="App-header">
124       <img src={logo} className="App-logo" alt="logo" />
125       <h1 className="App-title">Welcome to React x redux-form</h1>
126     </header>
127     <div className="container">
128       <p className="App-intro">
129         Contact Form
130       </p>
131       <SignInForm onSubmit={this.handleSignIn} />
132     </div>
133   </div>
134 );
135 }
136 }
137 export default App;
```

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

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

6. Jika tidak terdapat error, akan menghasilkan tampilan logo react, dan terdapat form hasil validasi redux form ke dalam bentuk Higher Order Component.



Welcome to React x redux-form

Contact Form

First Name

Last Name

Email Address

Age

Proficiency

Gender
☐ Male ☐ Female

☐ Save Details

Message