

LAPORAN PRAKTIKUM  
PEMROGRAMAN BERBASIS FRAMEWORK

Pertemuan Minggu-7

Modul 7 – REDUX Dan HOC



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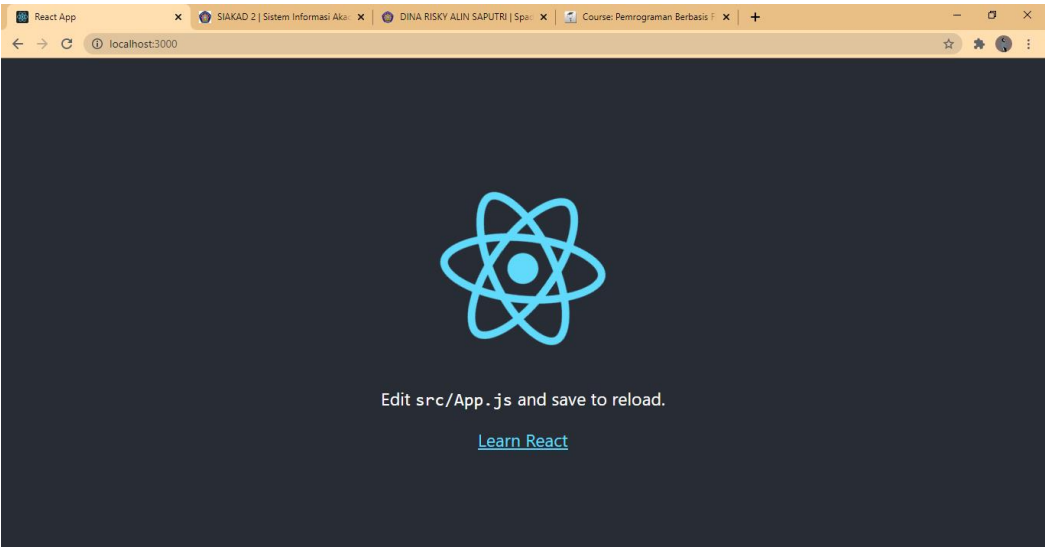
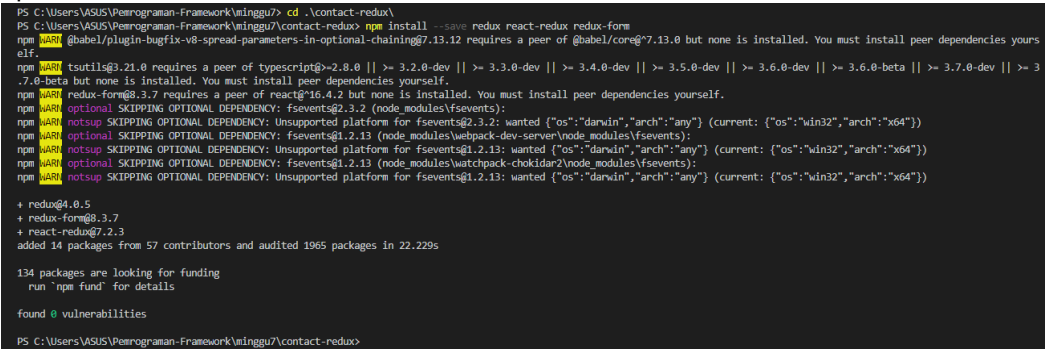
PROGRAM STUDI TEKNIK INFORMATIKA  
JURUSAN TEKNOLOGI INFORMASI  
POLITEKNIK NEGERI MALANG

2021

# Praktikum

## Langkah Praktikum

Langkah	Keterangan
1	<p>Buat dan install redux</p> <p>npx create-react-app contact-redux</p> <pre>PS C:\Users\ASUS\Pemrograman-Framework\minggu7&gt; npx create-react-app contact-redux  Creating a new React app in C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux.  Installing packages. This might take a couple of minutes. Installing react, react-dom, and react-scripts with cra-template...  &gt; core-js@2.6.12 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux\node_modules\babel-runtime\node_modules\core-js &gt; node -e "try{require('./postinstall')}catch(e){}"  &gt; core-js@3.9.1 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux\node_modules\core-js &gt; node -e "try{require('./postinstall')}catch(e){}"  &gt; core-js-pure@3.9.1 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux\node_modules\core-js-pure &gt; node -e "try{require('./postinstall')}catch(e){}"  &gt; ejs@2.7.4 postinstall C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux\node_modules\ejs &gt; node ./postinstall.js  + cra-template@1.1.2 + react-dom@17.0.2 + react@17.0.2 + react-scripts@4.0.3 added 1920 packages from 731 contributors and audited 1923 packages in 268.684s  133 packages are looking for funding   run `npm fund` for details  found 0 vulnerabilities  Installing template dependencies using npm... npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@&gt;7.13.0 but none is installed. You must install peer dependencies yourself. npm WARN tsutils@3.21.0 requires a peer of typescript@&gt;2.8.0    &gt;= 3.2.0-dev    &gt;= 3.3.0-dev    &gt;= 3.4.0-dev    &gt;= 3.5.0-dev    &gt;= 3.6.0-dev    &gt;= 3.6.0-beta    &gt;= 3.7.0-dev    &gt;= 3.7.0-beta but none is installed. You must install peer dependencies yourself. npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})  + @testing-library/jest-dom@5.11.9 + web-vitals@1.1.1 + @testing-library/react@11.2.5 + @testing-library/user-event@12.8.3 added 29 packages from 78 contributors and audited 1952 packages in 23.133s</pre> <p>npm install -g create-react-app</p> <pre>PS C:\Users\ASUS\Pemrograman-Framework\minggu7&gt; cd .\contact-redux\ PS C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux&gt; npm install -g create-react-app C:\Users\ASUS\AppData\Roaming\npm\create-react-app -&gt; C:\Users\ASUS\AppData\Roaming\npm\node_modules\create-react-app\index.js + create-react-app@4.0.3 updated 1 package in 5.757s PS C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux&gt;</pre> <p>create-react-app contact-redux</p> <p>npm start</p> <pre>PS C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux&gt; npm start  &gt; contact-redux@0.1.0 start C:\Users\ASUS\Pemrograman-Framework\minggu7\contact-redux &gt; react-scripts start</pre>

	<div><pre>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.</pre></div> <div></div>
2	<div><h3>Install Form</h3><pre>npm install --save redux react-redux redux-form</pre></div> <div></div>
3	<div><h3>Ubah file <b>index.html</b> pada folder <b>/public/index.html</b></h3></div>

	<pre> contact-redux &gt; public &gt; index.html &gt; html &gt; head 1  &lt;!DOCTYPE html&gt; 2  &lt;html lang="en"&gt; 3  &lt;head&gt; 4  &lt;meta charset="utf-8"&gt; 5  &lt;meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no"&gt; 6  &lt;meta name="theme-color" content="#000000"&gt; 7 8  &lt;link rel="manifest" href="%PUBLIC_URL%/manifest.json"&gt; 9  &lt;link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico"&gt; 10 &lt;link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bulma/0.6.2/css/bulma.min.css"&gt; 11 12 &lt;title&gt;React App&lt;/title&gt; 13 &lt;/head&gt; 14 &lt;body&gt; 15 &lt;noscript&gt; 16 You need to enable JavaScript to run this app. 17 &lt;/noscript&gt; 18 &lt;div id="root"&gt;&lt;/div&gt; 19 20 &lt;/body&gt; 21 &lt;/html&gt; </pre>
4	Ubah file <b>App.js</b> pada folder <b>/src/App.js</b>
5	<p>Ubah file <b>/src/index.js</b></p> <pre> contact-redux &gt; src &gt; JS App.js &gt; 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 =&gt; { 7    const { handleSubmit } = props; 8    return &lt;form onSubmit={handleSubmit} className="form"&gt; 9      &lt;div className="field"&gt; 10        &lt;div className="control"&gt; 11          &lt;b&gt;&lt;Field name="firstName" component={renderField} type="text" label="First Name" /&gt;&lt;/b&gt; 12        &lt;/div&gt; 13      &lt;/div&gt; 14      &lt;div className="field"&gt; 15        &lt;div className="control"&gt; 16          &lt;b&gt;&lt;Field name="lastName" component={renderField} type="text" label="Last Name" /&gt;&lt;/b&gt; 17        &lt;/div&gt; 18      &lt;/div&gt; 19      &lt;div className="field"&gt; 20        &lt;div className="control"&gt; </pre>

```

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>

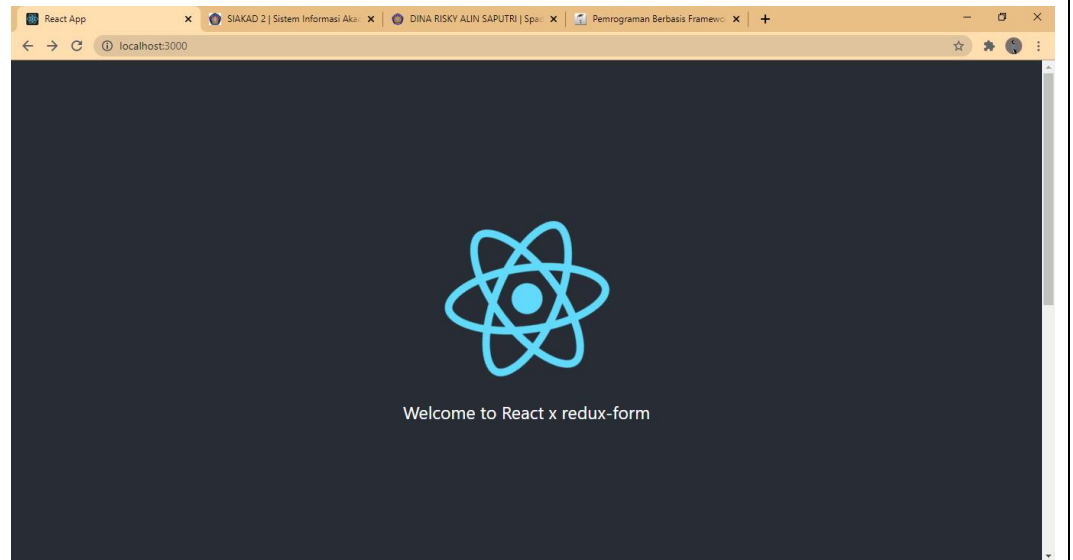
```

```

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 |   }

```

	<pre> 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 (!/^.+@.+\$/.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) &lt; 18) { 97     errors.age = 'Sorry, you must be at least 18 years old' 98   } 99   return errors; 100  }; </pre> <pre> 101 102  const renderField = ({ input, label, type, meta: { touched, error, warning } }) =&gt; ( 103    &lt;div&gt; 104      &lt;div className="control"&gt; 105        &lt;label className="field"&gt;{label}&lt;/label&gt; 106        &lt;input className="input" {...input} placeholder={label} type={type} /&gt; 107        {touched &amp;&amp; ((error &amp;&amp; &lt;span&gt;{error}&lt;/span&gt;)    (warning &amp;&amp; &lt;span&gt;{warning}&lt;/span&gt;))} 108      &lt;/div&gt; 109    &lt;/div&gt; 110  ) 111 112  SignInForm = reduxForm({ 113    form: 'signIn', 114    validate, 115  })(SignInForm); 116 117  class App extends Component { 118    handleSignIn = values =&gt; { 119      console.log(values); 120    }; </pre> <pre> 121  render() { 122    return ( 123      &lt;div className="App"&gt; 124        &lt;header className="App-header"&gt; 125          &lt;img src={logo} className="App-logo" alt="logo" /&gt; 126          &lt;h1 className="App-title"&gt;Welcome to React x redux-form&lt;/h1&gt; 127        &lt;/header&gt; 128        &lt;div className="container"&gt; 129          &lt;b&gt;&lt;p className="App-intro"&gt;Contact Form&lt;/p&gt;&lt;/b&gt; 130          &lt;SignInForm onSubmit={this.handleSignIn} /&gt; 131        &lt;/div&gt; 132      &lt;/div&gt; 133    ); 134  } 135 } 136 137 export default App; </pre>
6	Running hasilnya dan buatlah laporan



**Contact Form**

**First Name**

**Last Name**

**Email Address**

**Age**

**Proficiency**

**Gender**  
☐ Male ☐ Female  
☐ Save Details

**Message**

Setelah diisi form :

**Contact Form**

**First Name**

**Last Name**

**Email Address**

**Age**

**Proficiency**

**Gender**  
☐ Male ☒ Female  
☒ Save Details

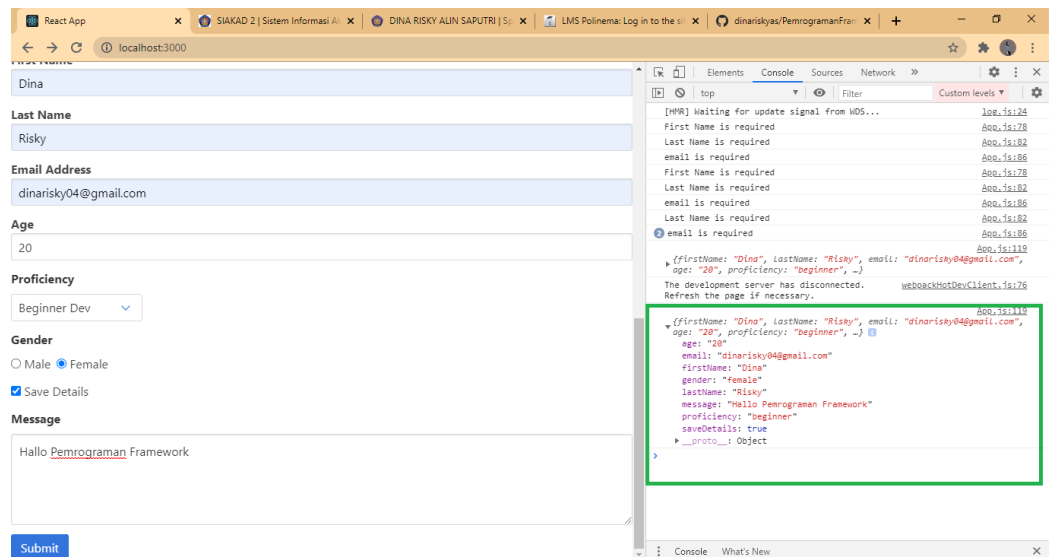
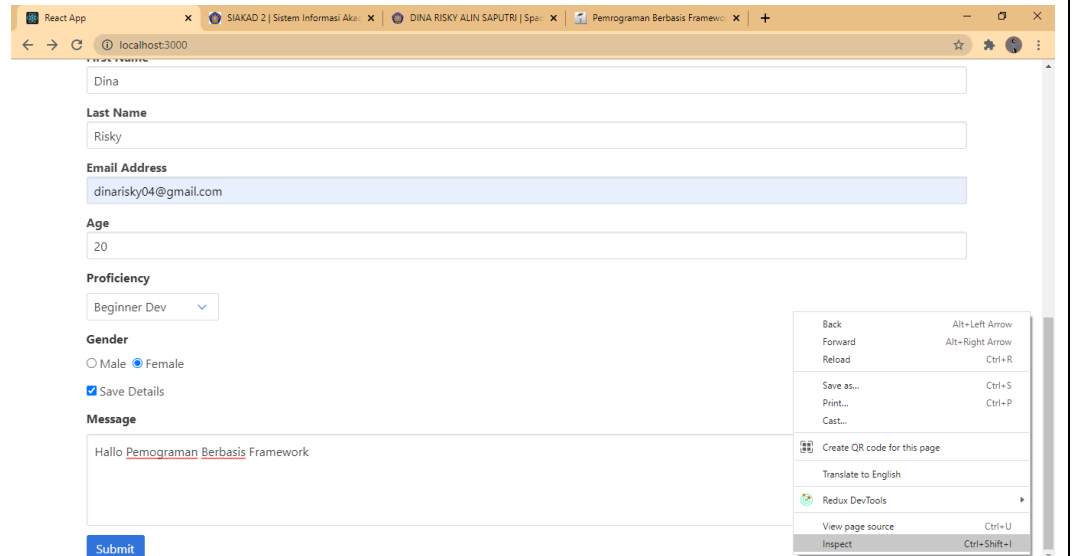
#### Message

Hallo Pemrograman 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
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>