

TUGAS INDIVIDU
PEMROGRAMAN BERBASIS FRAMEWORK
“Redux dan HOC”



oleh:

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TI-3A

PROGRAM STUDI D-IV TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG

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Praktikum

1. Membuat dan menginstall redux

npx create-react-app contact-redux

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  1: powershell

PS E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-ReduxHoc> npx create-react-app contact-redux

Creating a new React app in E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-ReduxHoc\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 E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\node_modules\babel-r
untime\node_modules\core-js
> node -e "try(require('./postinstall'))catch(e){}"

> core-js@3.6.4 postinstall E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\node_modules\core-js
> node -e "try(require('./postinstall'))catch(e){}"

> core-js-pure@3.6.4 postinstall E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\node_modules\cor
e-js-pure
> node -e "try(require('./postinstall'))catch(e){}"

+ cra-template@1.0.3
+ react@16.13.1
+ react-dom@16.13.1
+ react-scripts@3.4.1
added 1579 packages from 748 contributors and audited 929880 packages in 747.995s
found 0 vulnerabilities

Installing template dependencies using npm...
npm WARN react-scripts@3.4.1 requires a peer of typescript@^3.2.1 but none is installed. You must install peer dependenc
ies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies
yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies your
self.
npm WARN sass-loader@8.0.2 requires a peer of fibers@>= 3.1.0 but none is installed. You must install peer dependencies
yourself.
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.
```

npm install -g create-react-app

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  1: powershell

PS E:\POLINEMA\Semester 6\PBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux> npm install -g create-react-app
npm WARN deprecated mkdirp@0.5.4: Legacy versions of mkdirp are no longer supported. Please update to mkdirp 1.x. (Note
that the API surface has changed to use Promises in 1.x.)
C:\Users\ASUS\AppData\Roaming\npm\create-react-app -> C:\Users\ASUS\AppData\Roaming\npm\node_modules\create-react-app\in
dex.js
+ create-react-app@3.4.1
updated 1 package in 42.134s
```

create-react-app contact-redux

```
contact-redux > src > JS App.test.js > ...
10
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: powershell

+ create-react-app@3.4.1
updated 1 package in 42.134s
PS E:\POLINEMA\Semester 6\VPBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux> create-react-app contact-redux

Creating a new React app in E:\POLINEMA\Semester 6\VPBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\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 E:\POLINEMA\Semester 6\VPBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\contact-redux\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

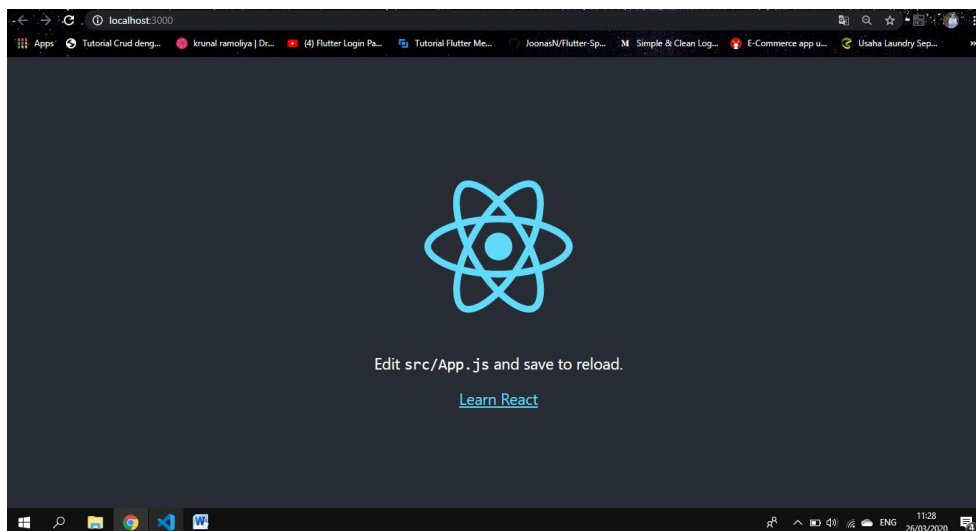
> core-js@3.6.4 postinstall E:\POLINEMA\Semester 6\VPBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\contact-redux\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js-pure@3.6.4 postinstall E:\POLINEMA\Semester 6\VPBF\28-TikaYulianti-TI3A-ReduxHoc\contact-redux\contact-redux\node_modules\core-js-pure
> node -e "try{require('./postinstall')}catch(e){}"

+ cra-template@1.0.3
+ react@16.13.1
+ react-dom@16.13.1
+ react-scripts@3.4.1
added 1579 packages from 748 contributors and audited 929880 packages in 467.331s
found 0 vulnerabilities

Installing template dependencies using npm...
npm WARN react-scripts@3.4.1 requires a peer of typescript@^3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of node-sass@^4.0.0 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 requires a peer of sass@^1.3.0 but none is installed. You must install peer dependencies your
```

npm start



2. Menginstall Form

npm install --save redux react-redux redux-form

3. Mengubah file index.html pada folder **/public/index.html** menjadi berikut:

```
index.html • JS App.js JS index.js contact-redux\... JS App.test.js JS index.js C:\_HOC-master\...
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  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
12    integrity="sha384-Vkoo8x4CGs03+Hhvx8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous">
13  <title>React App</title>
14 </head>
15
16 <body>
17   <noscript>
18     You need to enable JavaScript to run this app.
19   </noscript>
20   <div id="root"></div>
21 </body>
22
23 </html>
```

4. Mengubah file App.js pada folder /src/App.js menjadi berikut:

```
contact-redux > src > JS App.js > default
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>
```

```
index.html JS App.js JS index.js contact-redux\... JS App.test.js JS index.js C:\_HOC-master\...
contact-redux > src > JS App.js > [0] default
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 .....<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) {
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) {
```

```

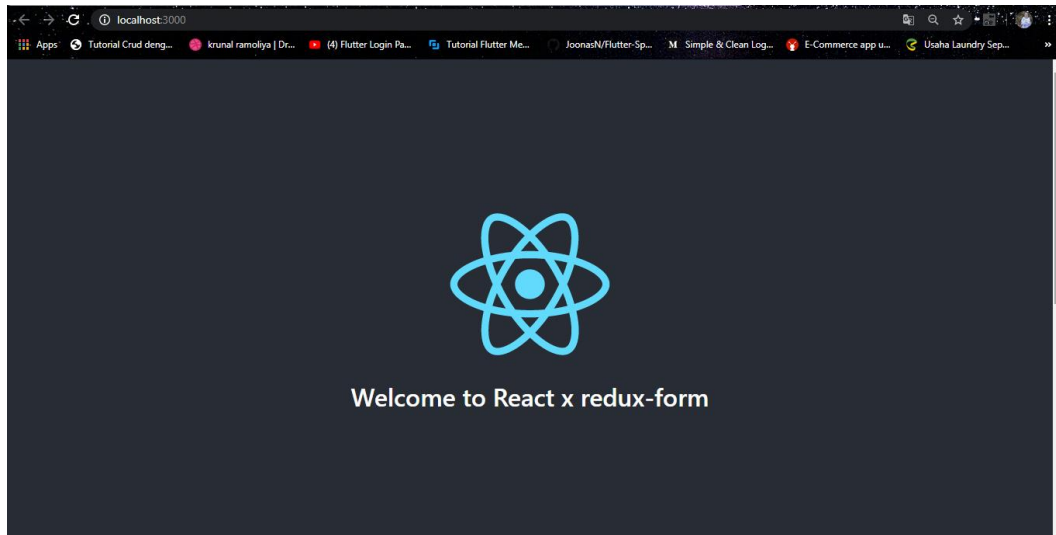
index.html • JS App.js × JS index.js contact-redux\... JS App.test.js JS index.js C:\_VHOC-master\...
contact-redux > src > JS App.js > default
90     } else if (!/^[a-zA-Z0-9@.]+\.(val.email))/ {
91     console.log('email is invalid');
92     errors.email = 'Invalid email address';
93     }
94     if (!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">
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} />
132          </div>
133        </div>
134      );
135    }
136  }
137  export default App;

```

5. Mengubah file `/src/index.js` menjadi berikut:

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


6. Result 1



Result 2

A screenshot of a web browser window displaying a contact form titled "Contact Form". The form is styled with a light gray background and white input fields. It contains the following fields: "First Name" with the value "Tika", "Last Name" with the value "Yulianti", "Email Address" with the value "tikayulian27@gmail.com", "Age" with the value "20", "Proficiency" with a dropdown menu showing "Expert Dev", "Gender" with radio buttons for "Male" and "Female" (the "Female" option is selected), a "Save Details" link, and a "Message" text area with the value "Done". A blue "Submit" button is located at the bottom left of the form. The browser's address bar shows "localhost:3000". The top of the browser window displays several open tabs, including "Tutorial Crud deng...", "krunal ramoliya | Dr...", "(4) Flutter Login Pa...", "Tutorial Flutter Me...", "JoonaN/Flutter-Sp...", "Simple & Clean Log...", "E-Commerce app u...", and "Usaha Laundry Sep...".