

TUGAS INDIVIDU

MODUL 7 REDUX DAN HOC

**Disusun sebagai
MATA KULIAH : PEMROGRAMAN BERBASIS FRAMEWORK**

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**PROGRAM STUDI D-IV TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
2020**

A. Praktikum

1. Buat dan install redux

```
PS D:\Yoga\MatKul\Semester 6\Pemrograman Berbasis Framework\Tugas\modul7> npx create-react-app contact-redux
npx: installed 99 in 6.821s

Creating a new React app in D:\Yoga\MatKul\Semester 6\Pemrograman Berbasis Framework\Tugas\modul7\contact-redux.

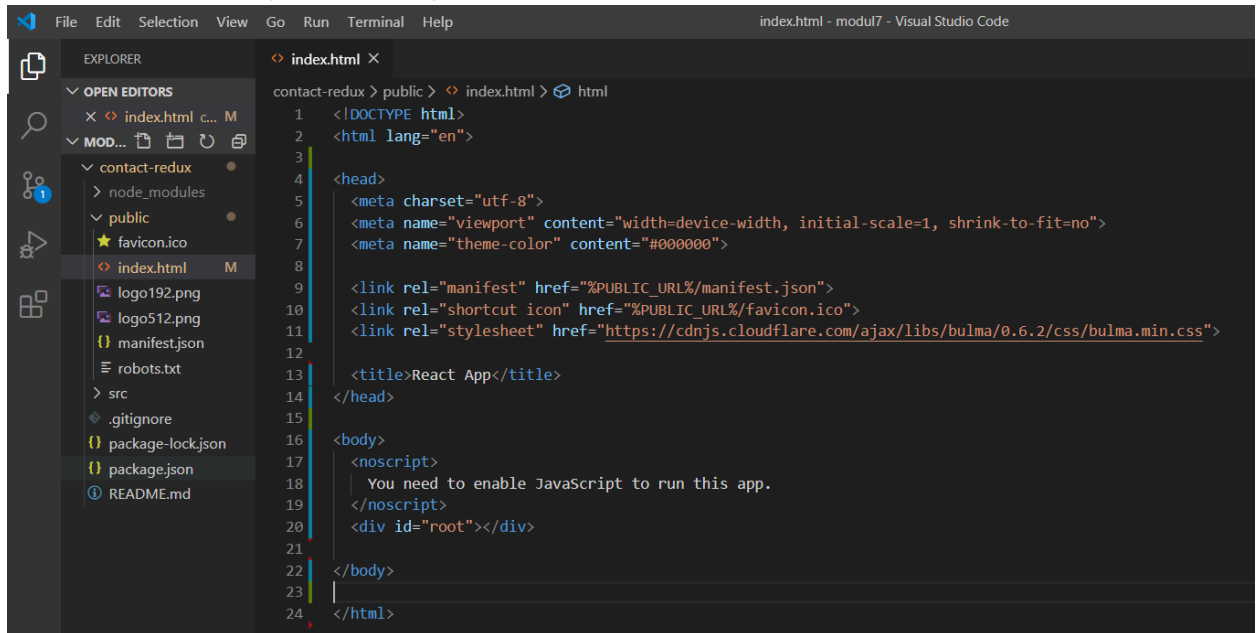
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

> core-js@2.6.11 postinstall D:\Yoga\MatKul\Semester 6\Pemrograman Berbasis Framework\Tugas\modul7\contact-redux\node_m
> node -e "try{require('./postinstall')}catch(e){}"
```

2. Install form

```
PS D:\Yoga\MatKul\Semester 6\Pemrograman Berbasis Framework\Tugas\modul7\contact-redux> npm install --save redux react-redux redux-form
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 yourself.
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 || >= 3.5.0-dev || >= 3.6.0-d
.7.0-dev || >= 3.7.0-beta but none is installed. You must install peer dependencies yourself.
npm WARN redux-form@8.3.1 requires a peer of immutable@3.8.2 but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (node_modules\fsevents):
```

3. Ubah file index.html pada folder /public/index.html



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

The image displays two screenshots of a Visual Studio Code editor window, showing the development of a web application component named `SignInForm` in `App.js`.

Top Screenshot: The editor shows the initial code for `SignInForm`. It imports `React`, `Component` from `'react'`, `reduxForm` and `Field` from `'redux-form'`, `logo` from `'./logo.svg'`, and `App.css` from `'./App.css'`. The `SignInForm` component is defined as a function that takes `props` and returns a `form` with a `handleSubmit` prop. The form contains three fields: `firstName` (text), `lastName` (text), and `email` (email). The `App.js` file is highlighted in the Explorer view.

```
27 import React, { Component } from 'react';
28 import { reduxForm, Field } from 'redux-form';
29 import logo from './logo.svg';
30 import './App.css';
31
32 let SignInForm = props => {
33   const { handleSubmit } = props;
34   return <form onSubmit={handleSubmit} className="form">
35     <div className="field">
36       <div className="control">
37         <Field name="firstName" component={renderField} type="text" label="First Name" />
38       </div>
39     </div>
40     <div className="field">
41       <div className="control">
42         <Field name="lastName" component={renderField} type="text" label="Last Name" />
43       </div>
44     </div>
45     <div className="field">
46       <div className="control">
47         <Field name="email" component={renderField} type="email" label="Email Address" />
48       </div>
49     </div>
50     <div className="field">
51       <div className="control">
52         <Field name="age" component={renderField} type="number" label="Age" />
```

Bottom Screenshot: The editor shows the updated code for `SignInForm`. It adds a `proficiency` field (select) and a `gender` field (radio buttons). The `App.js` file is highlighted in the Explorer view.

```
53     </div>
54   </div>
55   <div className="field">
56     <div className="control">
57       <label className="label">Proficiency</label>
58       <div className="select">
59         <Field className="input" name="proficiency" component="select">
60           <option />
61           <option value="beginner">Beginner Dev</option>
62           <option value="intermediate">Intermediate Dev</option>
63           <option value="expert">Expert Dev</option>
64         </Field>
65       </div>
66     </div>
67   </div>
68   <div className="field">
69     <div className="control">
70       <label className="label">Gender</label>
71       <label className="radio">
72         <Field name="gender" component="input" type="radio" value="male" />
73         { ' ' }
74       </label>
75       <label className="radio">
76         <Field name="gender" component="input" type="radio" value="female" />
77         { ' ' }
78       </label>
```

File Edit Selection View Go Run Terminal Help Appjs - modul7 - Visual Studio Code

EXPLORER

index.html JS Appjs

contact-redux > src > JS Appjs > [e] SignInForm

```
79 Female
80 </label>
81 </div>
82 </div>
83 <div className="field">
84   <div className="control">
85     <label className="checkbox">
86       <Field name="saveDetails" id="saveDetails" component="input" type="checkbox" />
87   </div>
88   Save Details
89 </div>
90 </div>
91 <div className="field">
92   <div className="control">
93     <label className="label">Message</label>
94     <Field className="textarea" name="message" component="textarea" />
95   </div>
96 </div>
97 <div className="field">
98   <div className="control">
99     <button className="button is-link">Submit</button>
100   </div>
101 </div>
102 </form>;
103 };
104 const validate = val => {
105   const errors = {};
```

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EXPLORER

index.html JS Appjs

contact-redux > src > JS Appjs > [e] validate

```
106 if (!val.firstName) {
107   console.log('First Name is required');
108   errors.firstName = 'Required';
109 }
110 if (!val.lastName) {
111   console.log('Last Name is required');
112   errors.lastName = 'Required';
113 }
114 if (!val.email) {
115   console.log('email is required');
116   errors.email = 'Required';
117 } else if (!/^.+@.+$/.test(val.email)) {
118   console.log('email is invalid');
119   errors.email = 'Invalid email address';
120 }
121 if (!val.age) {
122   errors.age = 'Required'
123 } else if (isNaN(Number(val.age))) {
124   errors.age = 'Must be a number'
125 } else if (Number(val.age) < 18) {
126   errors.age = 'Sorry, you must be at least 18 years old'
127 }
128 return errors;
129 };
130 const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
131   <div>
```

File Edit Selection View Go Run Terminal Help App.js - modul7 - Visual Studio Code

EXPLORER

contact-redux > src > JS App.js > renderField

```
132 | <div className="control">
133 |   <label className="field">{label}</label>
134 |   <input className="input" {...input} placeholder={label} type={type} />
135 |   {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
136 | </div>
137 | </div>
138 | )
139 | SignInForm = reduxForm({
140 |   form: 'signIn',
141 |   validate,
142 | })(SignInForm);
143 | class App extends Component {
144 |   handleSignIn = values => {
145 |     console.log(values);
146 |   };
147 |   render() {
148 |     return (
149 |       <div className="App">
150 |         <header className="App-header">
151 |           <img src={logo} className="App-logo" alt="logo" />
152 |           <h1 className="App-title">Welcome to React x redux-form</h1>
153 |         </header>
154 |         <div className="container">
155 |           <p className="App-intro">
156 |             Contact Form
157 |           </p>
158 |           <SignInForm onSubmit={this.handleSignIn} />
```

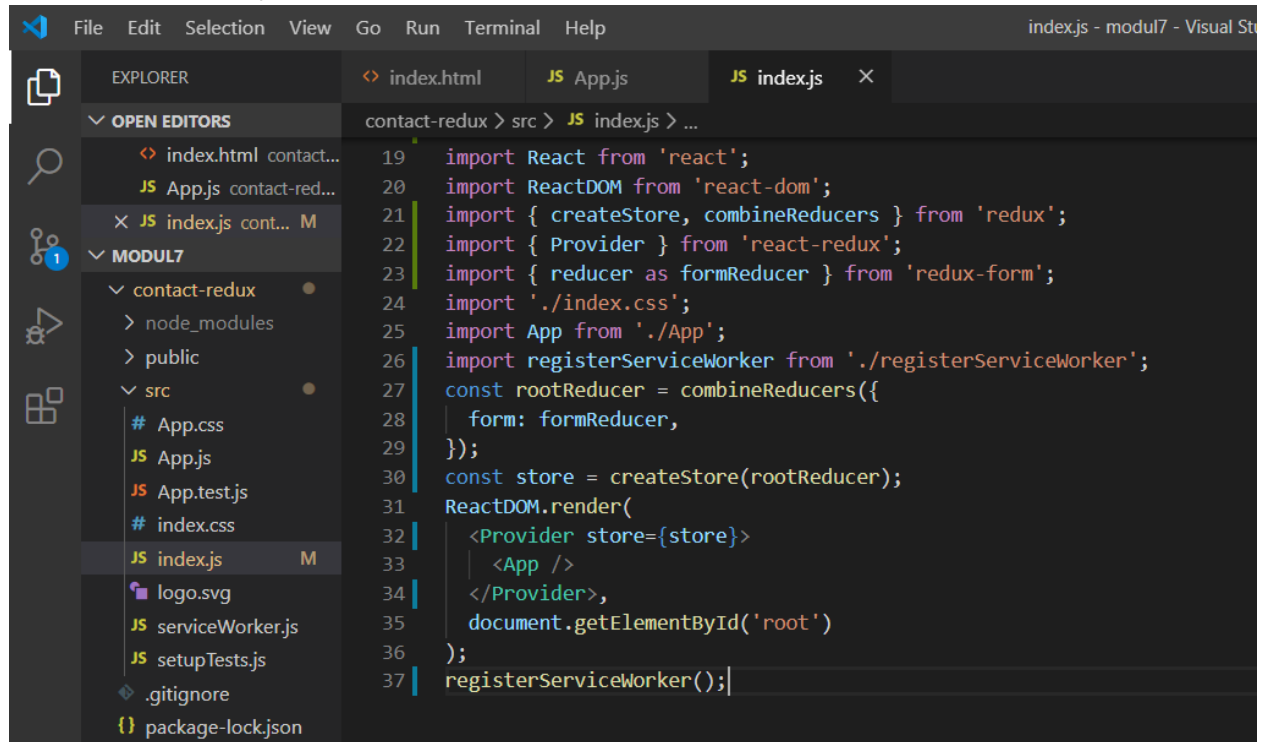
File Edit Selection View Go Run Terminal Help App.js - modul7 - Visual Studio Code

EXPLORER

contact-redux > src > JS App.js > App > render

```
159 |     </div>
160 |   </div>
161 | );
162 | }
163 | }
164 | export default App;
```

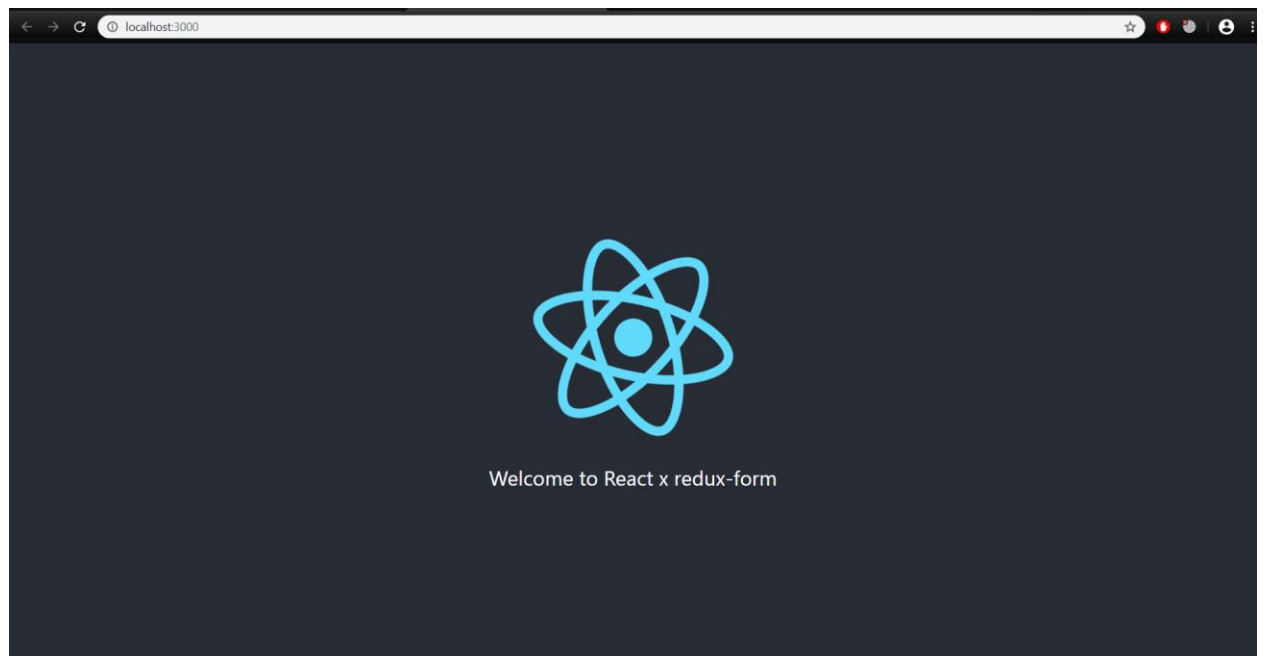
5. Ubah file /src/index.js



The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar shows the project structure with 'src' expanded, listing files like App.css, App.js, App.test.js, index.css, index.js (selected), logo.svg, serviceWorker.js, setupTests.js, .gitignore, and package-lock.json. The main editor area displays the content of 'index.js' with the following code:

```
19 import React from 'react';
20 import ReactDOM from 'react-dom';
21 import { createStore, combineReducers } from 'redux';
22 import { Provider } from 'react-redux';
23 import { reducer as formReducer } from 'redux-form';
24 import './index.css';
25 import App from './App';
26 import registerServiceWorker from './registerServiceWorker';
27 const rootReducer = combineReducers({
28   form: formReducer,
29 });
30 const store = createStore(rootReducer);
31 ReactDOM.render(
32   <Provider store={store}>
33     <App />
34   </Provider>,
35   document.getElementById('root')
36 );
37 registerServiceWorker();
```

6. Hasil setelah di run



- Kosong

Contact Form

First Name

First Name

Required

Last Name

Last Name

Email Address

Email Address

Age

Age

Proficiency

Gender

☐ Male ☐ Female

☐ Save Details

Message

Submit

- Berisikan data

Contact Form

First Name

Yoga

Last Name

Ibnudinata

Email Address

yogaibnudinataa@gmail.com

Age

20

Proficiency

Expert Dev

Gender

☒ Male ☐ Female

☒ Save Details

Message

Hello

Submit