**TUGAS INDIVIDU**

**Pemrograman Berbasis Framework**

**Redux dan HOC**

Oleh :

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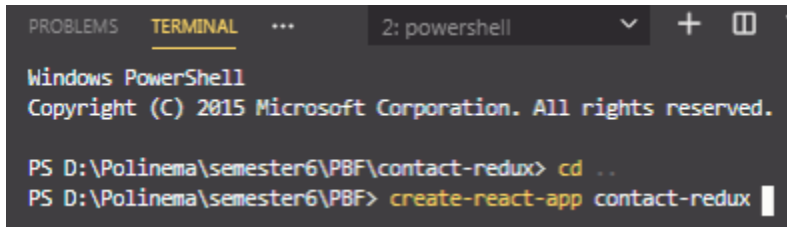
Kelas : TI 3A / 01



**PROGRAM STUDI D-IV TEKNIK INFORMATIKA**

**JURUSAN TEKNOLOGI INFORMASI**

**POLITEKNIK NEGERI MALANG**

**2020**

**Praktikum**
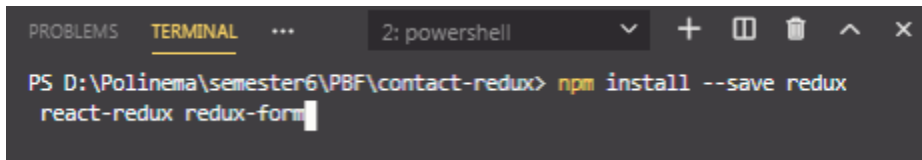
Langkah-Langkah :

1. Buat react project dan install redux terlebih dahulu

```
PROBLEMS   TERMINAL   ...        2: powershell        ∨   +  ▯  🗑

Windows PowerShell
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PS D:\Polinema\semester6\PBF\contact-redux> cd ..
PS D:\Polinema\semester6\PBF> create-react-app contact-redux ▮
```
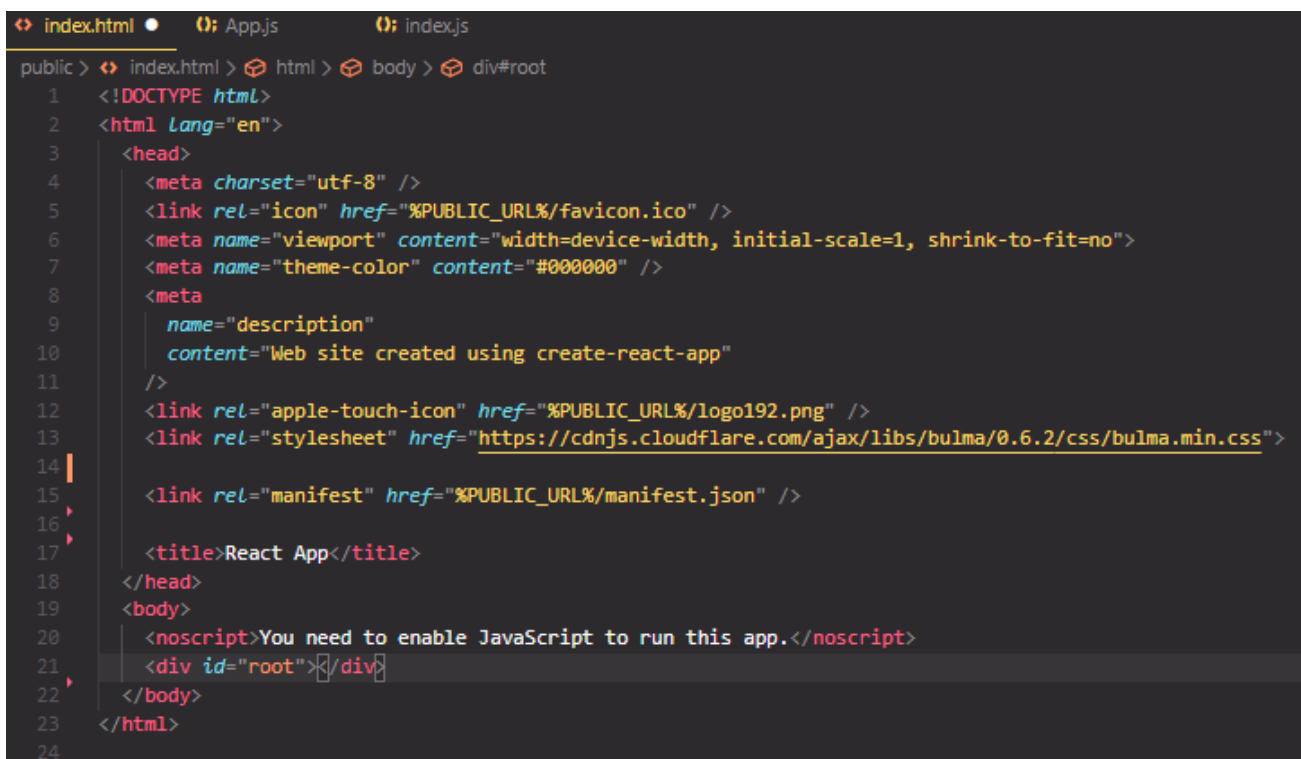
```
PROBLEMS   TERMINAL   ...        2: powershell        ∨   +  ▯  🗑  ∧  ✕

PS D:\Polinema\semester6\PBF\contact-redux> npm install --save redux
 react-redux redux-form▮
```

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 ●     () App.js        () index.js

public > <> index.html > ⊗ html > ⊗ body > ⊗ div#root
   1      <!DOCTYPE html>
   2      <html lang="en">
   3        <head>
   4          <meta charset="utf-8" />
   5          <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
   6          <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
   7          <meta name="theme-color" content="#000000" />
   8          <meta
   9            name="description"
  10            content="Web site created using create-react-app"
  11          />
  12          <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
  13          <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bulma/0.6.2/css/bulma.min.css">
  14
  15          <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
  16
  17          <title>React App</title>
  18        </head>
  19        <body>
  20          <noscript>You need to enable JavaScript to run this app.</noscript>
  21          <div id="root"></div>
  22        </body>
  23      </html>
  24
```

4. Ubah file App.js pada folder /src/App.js sebagai berikut :

```
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 => {
7      const { handleSubmit } = props;
8      return <form onSubmit={handleSubmit} className="form">
9        <div className="field">
10         <div className="control">
11           <Field name="firstName" component={renderField} type="text" label="First Name" />
12         </div>
13       </div>
14
15       <div className="field">
16         <div className="control">
17           <Field name="lastName" component={renderField} type="text" label="Last Name" />
18         </div>
19       </div>
20
21       <div className="field">
22         <div className="control">
23           <Field name="email" component={renderField} type="email" label="Email Address" />
24         </div>
25
26       </div>
27
28       <div className="field">
29         <div className="control">
30           <Field name="age" component={renderField} type="number" label="Age" />
31         </div>
32       </div>
33
```

```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>
```

```jsx
      </div>


      <div className="field">
        <div className="control">
          <label className="label">Message</label>
          <Field className="textarea" name="message" component="textarea" />
        </div>
      </div>


      <div className="field">
        <div className="control">
          <button className="button is-link">Submit</button>
        </div>
      </div>

    </form>;

};

const validate = val => {
  const errors = {}; if (!val.firstName) {
    console.log('First Name is required'); errors.firstName = 'Required';
  }

  if (!val.lastName) {
    console.log('Last Name is required'); errors.lastName = 'Required';
  }
  if (!val.email) {
    console.log('email is required'); errors.email = 'Required';

  } else if (!/^.+@.+$/i.test(val.email)) {
    console.log('email is invalid');
    errors.email = 'Invalid email address';
  }
  if (!val.age) {
    errors.age = 'Required'
  } else if (isNaN(Number(val.age))) {
```

```
110      } else if (isNaN(Number(val.age))) {
111
112        errors.age = 'Must be a number'
113      } else if (Number(val.age) < 18) {
114        errors.age = 'Sorry, you must be at least 18 years o  ld'
115      }
116      return errors;
117    };
118
119
120    const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
121      <div >
122        < div className="control">
123          <label className="field">{label}</label>
124          <input className="input" {...input} placeholder={label} type={type} />
125          {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
126        </div>
127      </div>
128    )
129
130    SignInForm = reduxForm({
131      form: 'signIn',
132      validate,})
133      (SignInForm);
134
135    class App extends Component {
136
137      handleSignIn = values => {
138        console.log(values);
139      };
140
141
142      render() {
143        return (
144          <div className="App">
145            <header className="App-header">
146              <img src={logo} className="App-logo" alt="logo" />
147              <h1 className="App-title">Welcome to React x redux-form</h1>
148
149            </header>
```

```
150                <div className="container">
151                   <p className="App-intro">
152                     Contact Form
153                   </p>
154                   <SignInForm onSubmit={this.handleSignIn} />
155                 </div>
156             </div>
157         );
158     }
159 }
160 |
161
162
163
164
165     export default App;
166
```

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

```
<> index.html        (); App.js         (); index.js    ×

src > (); index.js > ...
   1     import React from 'react';
   2     import ReactDOM from 'react-dom';
   3
   4     import { createStore, combineReducers } from 'redux'; import { Provider } from 'react-redux';
   5     import { reducer as formReducer } from 'redux-form';
   6
   7
   8     import './index.css';
   9     import App from './App';
  10     import * as serviceWorker from './serviceWorker';
  11
  12     const rootReducer = combineReducers({   form: formReducer,
  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.unregister();
  27
```

Hasil running :



Ketika disubmit maka data json akan tersimpan , bias dilihat pada console