LAPORAN PRAKTIKUM INDIVIDU

HOC

Disusun sebagai

MATA KULIAH : PEMROGRAMAN BERBASIS FRAMEWORK

Oleh :
Nisa' Nurrochmah Hani / 1741720164
3C / 18

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

Langkah-langkah

1. Buat dan install redux

```
E:\KULIAH NISA\Semester 6\Pemrograman Berbasis Framework\praktikum>npm install redux react-redux
npm WARN saveError ENOENT: no such file or directory, open 'E:\KULIAH NISA\Semester 6\Pemrograman Berbasis Framework\prakt
ikum\package.json'
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN enoent ENOENT: no such file or directory, open 'E:\KULIAH NISA\Semester 6\Pemrograman Berbasis Framework\praktiku
m\package.json'
npm WARN react-redux@7.2.0 requires a peer of react@^16.8.3 but none is installed. You must install peer dependencies your
self.
npm WARN praktikum No description
npm WARN praktikum No repository field.
npm WARN praktikum No README data
npm WARN praktikum No license field.

+ redux@4.0.5
+ react-redux@7.2.0
added 11 packages from 8 contributors and audited 17 packages in 23.244s
found 0 vulnerabilities
```

2. Install Form

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

```
E:\KULIAH NISA\Semester 6\Pemrograman Berbasis Framework\praktikum>npm install --save redux react-redux redux-form
npm WARN saveError ENOENT: no such file or directory, open 'E:\KULIAH NISA\Semester 6\Pemrograman Berbasis Framework\prak
ikum\package.json'
npm WARN enoent ENOENT: no such file or directory, open 'E:\KULIAH NISA\Semester 6\Pemrograman Berbasis Framework\praktik
m\package.json'
npm WARN react-redux@7.2.0 requires a peer of react@^16.8.3 but none is installed. You must install peer dependencies you
self.
npm WARN redux-form@8.3.1 requires a peer of react@^16.4.0 but none is installed. You must install peer dependencies your
elf.
npm WARN redux-form@8.3.1 requires a peer of immutable@^3.8.2 but none is installed. You must install peer dependencies y
urself.
npm WARN praktikum No description
npm WARN praktikum No repository field.
npm WARN praktikum No README data
npm WARN praktikum No license field.

+ react-redux@7.2.0
+ redux-form@8.3.1
+ redux@4.0.5
added 7 packages from 6 contributors, updated 2 packages and audited 52 packages in 11.44s
found 0 vulnerabilities
```

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

```html
public > <> index.html > @ 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     <title>React App</title>
 12   </head>
 13
 14   <body>
 15     <noscript>
 16       You need to enable JavaScript to run this app.
 17     </noscript>
 18     <div id="root"></div>
 19   </body>
 20
 21   </html>
```

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

```jsx
import React, { Component } from 'react';
import { reduxForm, Field } from 'redux-form';
import logo from './logo.svg';
import './App.css';

let SignInForm = props => {
  const { handleSubmit } = props;
  return <form onSubmit={handleSubmit} className="form">
    <div className="field">
      <div className="control">
        <Field name="firstName" component={renderField} type="text" label="First Name" />
      </div>
    </div>
    <div className="field">
      <div className="control">
        <Field name="lastName" component={renderField} type="text" label="Last Name" />
      </div>
    </div>
    <div className="field">
      <div className="control">
        <Field name="email" component={renderField} type="email" label="Email Address" />
      </div>
```

```jsx
    </div>
    <div className="field">
      <div className="control">
        <Field name="age" component={renderField} type="number" label="Age" />
      </div>
    </div>
    <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>
```

```jsx
      <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>
```

```jsx
        </div>
      </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>;
};
```

```javascript
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))) {
    errors.age = 'Must be a number'
  } else if (Number(val.age) < 18) {
    errors.age = 'Sorry, you must be at least 18 years old'
  }
  return errors;
};

const renderField = ({ input, label, type, meta: { touched, error, warning } }) => (
  <div>
    <div className="control">
      <label className="field">{label}</label>
      <input className="input" {...input} placeholder={label} type={type} />
      {touched && ((error && <span>{error}</span>) || (warning && <span>{warning}</span>))}
    </div>
  </div>
)
SignInForm = reduxForm({
  form: 'signIn',
  validate,
})(SignInForm);
class App extends Component {
  handleSignIn = values => {
    console.log(values);
  };
```

```jsx
  render() {
    return (
      <div className="App">
        <header className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <h1 className="App-title">Welcome to React x redux-form</h1>
        </header>
        <div className="container">
          <p className="App-intro">
            Contact Form
          </p>
          <SignInForm onSubmit={this.handleSignIn} />
        </div>
      </div>
    );
  }
}
export default App;
```

5. Ubah file /src/index.js

```js
import React from 'react';
import ReactDOM from 'react-dom';
import { createStore, combineReducers } from 'redux';
import { Provider } from 'react-redux';
import { reducer as formReducer } from 'redux-form';
import './index.css';
import App from './App';
import * as serviceWorker from './serviceWorker';

const rootReducer = combineReducers({
    form: formReducer,
});

const store = createStore(rootReducer);
ReactDOM.render(
    <Provider store={store}>
        <App />
    </Provider>,
    document.getElementById('root')
);

serviceWorker.unregister();
```

6. Running hasilnya dan buatlah laporan

Contact Form

First Name

First Name

Last Name

Last Name

Email Address

Email Address

Age

Age

Proficiency

Gender

○ Male ○ Female

☑ Save Details

Message

Submit