TUGAS INDIVIDU

Modul 7

Redux dan Hoc

Disusun sebagai :

MATA KULIAH : PEMROGRAMAN WEB BERBASIS FRAMEWORK

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TI 3-A

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

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PRAKTIKUM

1. Pertama buat dan install redux dengan menggunakan npx **'create-react-app contact-redux'**.

2. Kemudian contact form dengan menggunakan **'npm install –save redux react-redux redux-form'**.

3. Lalu setelah proses instalasi selesai, ubah file yang ada pada **index.html** yang ada pada folder **'public'** menjadi seperti di bawah ini.

4. Selanjutnya, ubah file **App.js** yang berada pada folder **'src'** menjadi seperti code berikut ini.

```
index.html        App.js    ×    index.js

contact-redux > src > Js App.js > ...
   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        </div>
  26
  27        <div className="field">
  28          <div className="control">
  29            <Field name="age" component={renderField} type="number" label="Age" />
  30          </div>
  31        </div>
  32
  33        <div className="field">
  34          <div className="control">
  35            <label className="label">Proficiency</label>
  36            <div className="select">
  37              <Field className="input" name="proficiency" component="select">
  38                <option />
  39                <option value="beginner">Beginner Dev</option>
  40                <option value="intermediate">Intermediate Dev</option>
  41                <option value="expert">Expert Dev</option>
  42              </Field>
  43            </div>
  44          </div>
  45        </div>
  46
```

```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>
        </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;
};
```

```javascript
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);
```
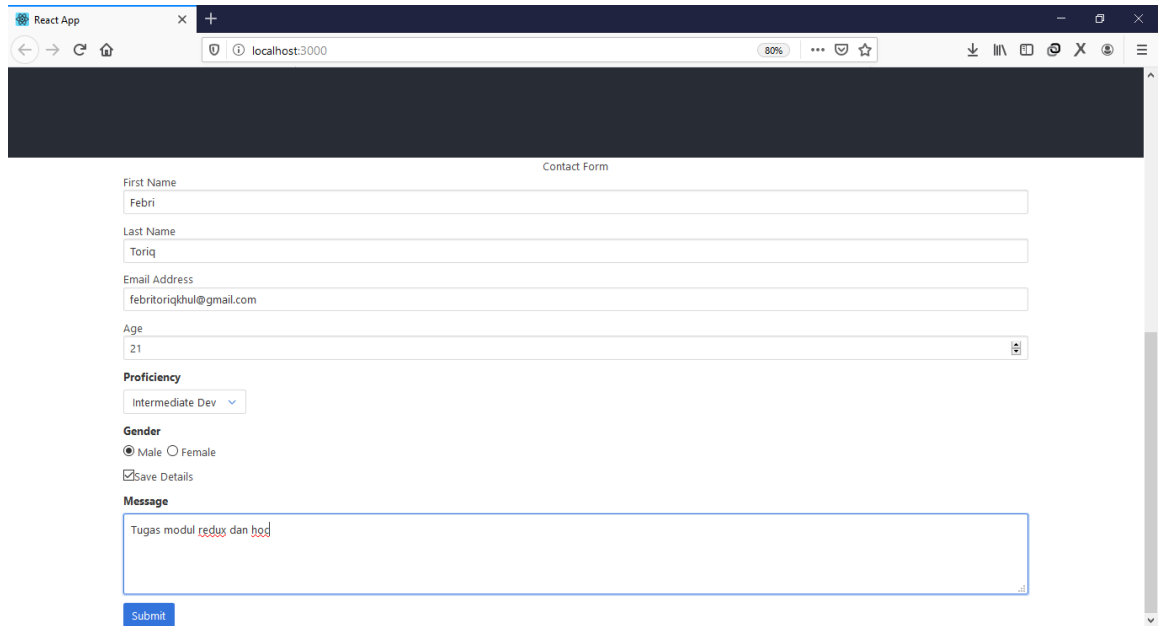
```jsx
class App extends Component {
  handleSignIn = values => {
    console.log(values);
  };

  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. Kemudian step selanjutnya adalah ubah file **index.js** yang ada di **'src/index.js'** menjadi seperti code di bawah ini.

```javascript
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. Yang terakhir adalah running program dengan **npm start** dan lihat hasilnya pada browser.