

TUGAS PERORANGAN/INDIVIDU
LAPORAN TUGAS MINGGU KE 8

MODUL 8: REDUX dan HOC

Disusun Sebagai:

MATA KULIAH: PEMROGRAMAN BERBASIS FRAMEWORK

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TI-3B



PROGRAM STUDI D4 TEKNIK INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
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Pengertian Redux dan HOC

- HOC : Teknik untuk membuat komponen ReactJS baru dari komponen yang sudah ada.
- Redux : Redux berfungsi mengelola formulir yang didukung oleh Redux sendiri. Dan *react-redux* berfungsi untuk memastikan bentuk HTML di React menggunakan Redux untuk menyimpan semua statusnya.
- *redux-form* memiliki komponen-komponen sebagai berikut:

formReducer(): berfungsi yang memberitahu cara memperbarui Redux berdasarkan perubahan yang berasal dari aplikasi; perubahan tersebut dijelaskan oleh tindakan Redux. *formReducer* harus dipasang pada kondisi Redux di form.

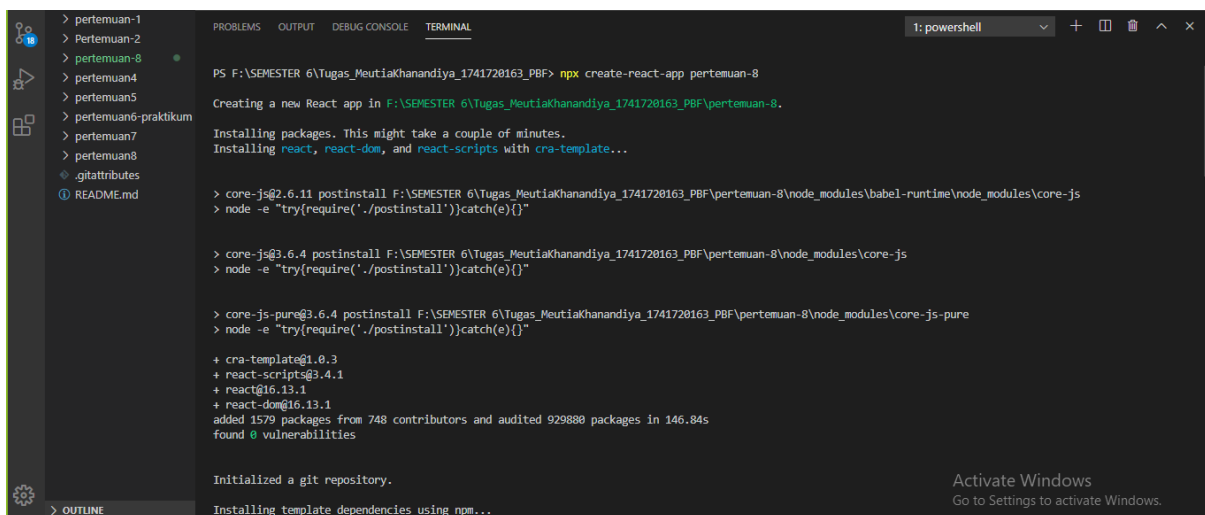
reduxForm(): berfungsi untuk mengambil objek konfigurasi dan selalu mengembalikan fungsi baru.

Komponen <Field />: komponen yang berfungsi sebagai cara untuk menghubungkan elemen input dalam formulir ke logika *redux-form*.

Praktikum

1. Buat dan install Redux

- `npx create-react-app contact-redux`



```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF> npx create-react-app pertemuan-8
Creating a new React app in F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8.
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 F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8\node_modules\babel-runtime\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js@3.6.4 postinstall F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8\node_modules\core-js
> node -e "try{require('./postinstall')}catch(e){}"

> core-js-pure@3.6.4 postinstall F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8\node_modules\core-js-pure
> node -e "try{require('./postinstall')}catch(e){}"

+ cra-template@1.0.3
+ react-scripts@3.4.1
+ react@16.13.1
+ react-dom@16.13.1
added 1579 packages from 748 contributors and audited 929880 packages in 146.84s
found 0 vulnerabilities

Initialized a git repository.
Installing template dependencies using npm...
```

[Gambar 1.1]

(Gambar 1.1 menunjukkan proses install `npx create-react-app contact-redux` telah dilakukan dan berhasil)

➤ `npm install -g create-react-app`

```
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF> cd pertemuan-8
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8> 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\MEUTIA KHANANDIYA\AppData\Roaming\npm\create-react-app -> C:\Users\MEUTIA KHANANDIYA\AppData\Roaming\npm\node_modules\create-react-app\
index.js
+ create-react-app@3.4.1
updated 1 package in 7.017s
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8>
```

[Gambar 1.2]

(Gambar 1.2 menunjukkan proses install `npm install -g create-react-app` telah dilakukan dan berhasil)

➤ `create-react-app contact-redux`

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
updated 1 package in 7.017s
PS F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8> create-react-app contact-redux

Creating a new React app in F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8\contact-redux.

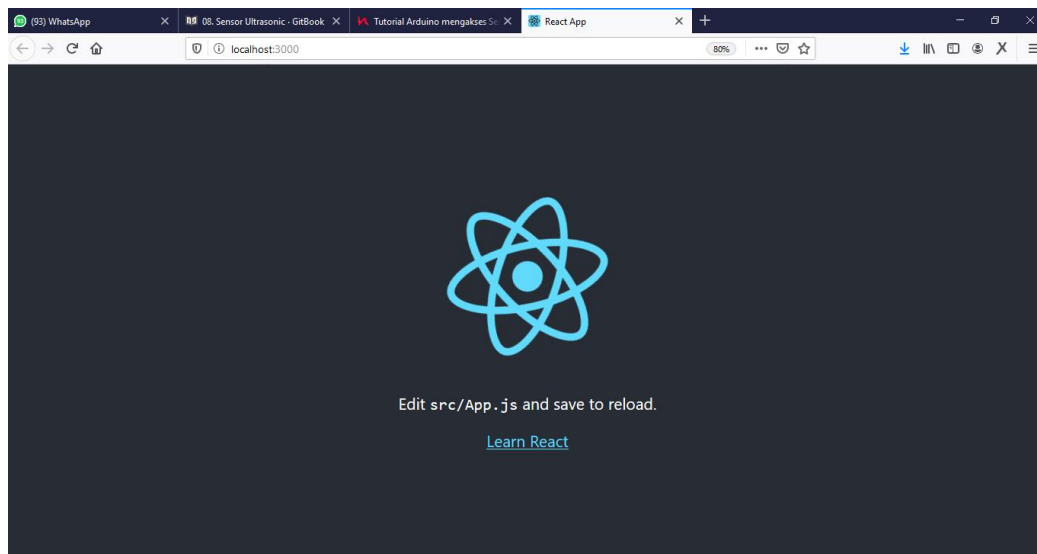
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

> core-js@2.6.11 postinstall F:\SEMESTER 6\Tugas_Meutiakhanandiya_1741720163_PBF\pertemuan-8\contact-redux\node_modules\babel-runtime\node_modul
es\core-js
> node -e "try{require('./postinstall')}catch(e){}"
```

[Gambar 1.3]

(Gambar 1.3 menunjukkan proses install `create-react-app contact-redux` telah dilakukan dan berhasil)

➤ `npm start`

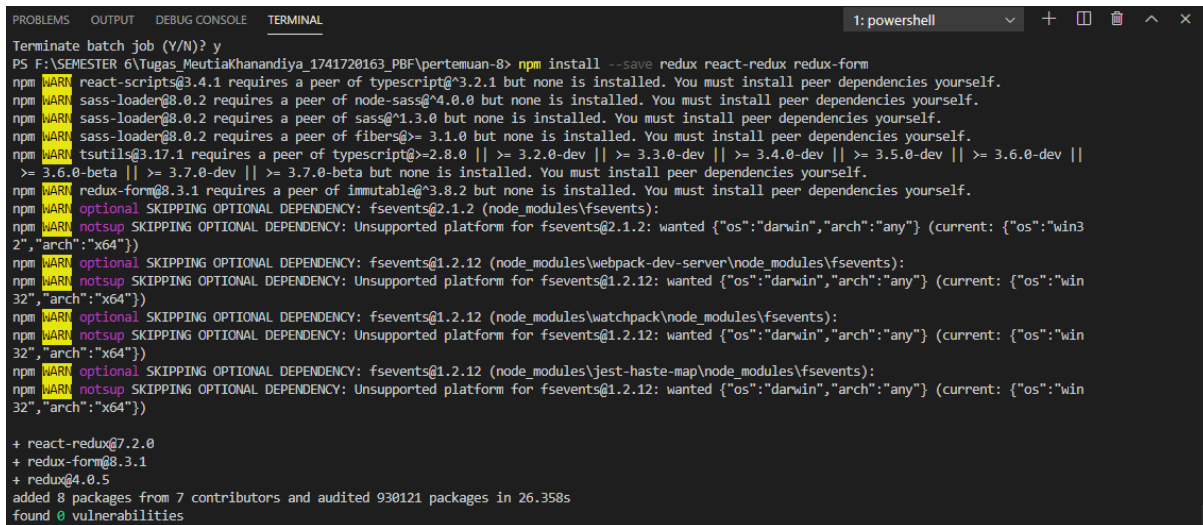


[Gambar 1.4]

(Gambar 1.4 adalah hasil dari `npm start` setelah proses install berhasil)

2. Install Form

➤ `npm install --save redux react-redux redux-form`

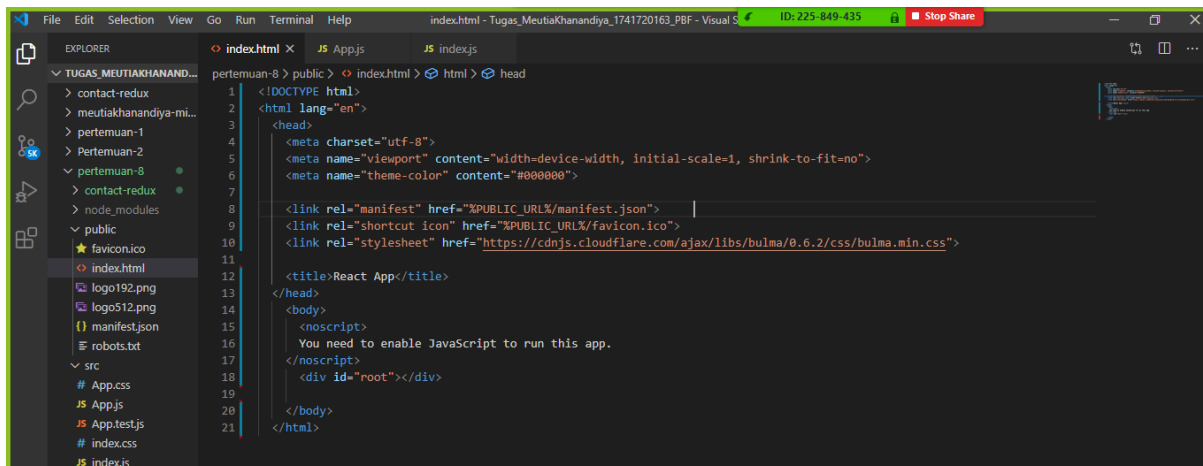


```
Terminate batch job (Y/N)? y
PS F:\SEMESTER 6\Tugas Meutiakhanandiya_1741720163_PBF\pertemuan-8> npm install --save redux react-redux redux-form
npm WARN react-scripts@3.4.1 requires a peer of typescript@>=3.2.1 but none is installed. You must install peer dependencies yourself.
npm WARN sass-loader@8.0.2 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-dev || >= 3.6.0-beta || >= 3.7.0-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):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.12 (node_modules\jest-haste-map\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.12: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
+ react-redux@7.2.0
+ redux-form@8.3.1
+ redux@4.0.5
added 8 packages from 7 contributors and audited 930121 packages in 26.358s
found 0 vulnerabilities
```

[Gambar 2.1]

(Gambar 2.1 menunjukkan proses install `npm install --save redux redux-form` telah dilakukan dan berhasil)

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

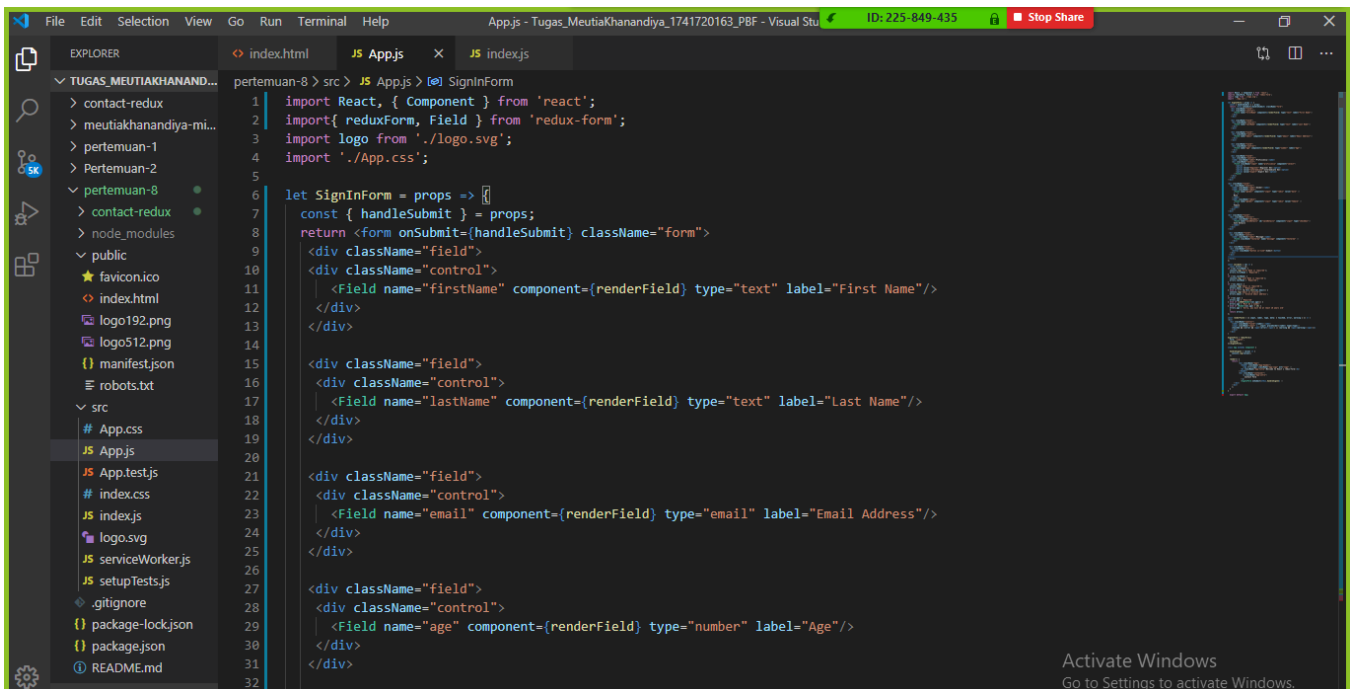


```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
6     <meta name="theme-color" content="#000000">
7
8     <link rel="manifest" href="%PUBLIC_URL%/manifest.json">
9     <link rel="shortcut 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
12    <title>React App</title>
13  </head>
14  <body>
15    <noscript>
16      You need to enable JavaScript to run this app.
17    </noscript>
18    <div id="root"></div>
19  </body>
20 </html>
```

[Gambar 3.1]

(Gambar 3.1 merupakan `index.html` dengan source yang telah di ubah)

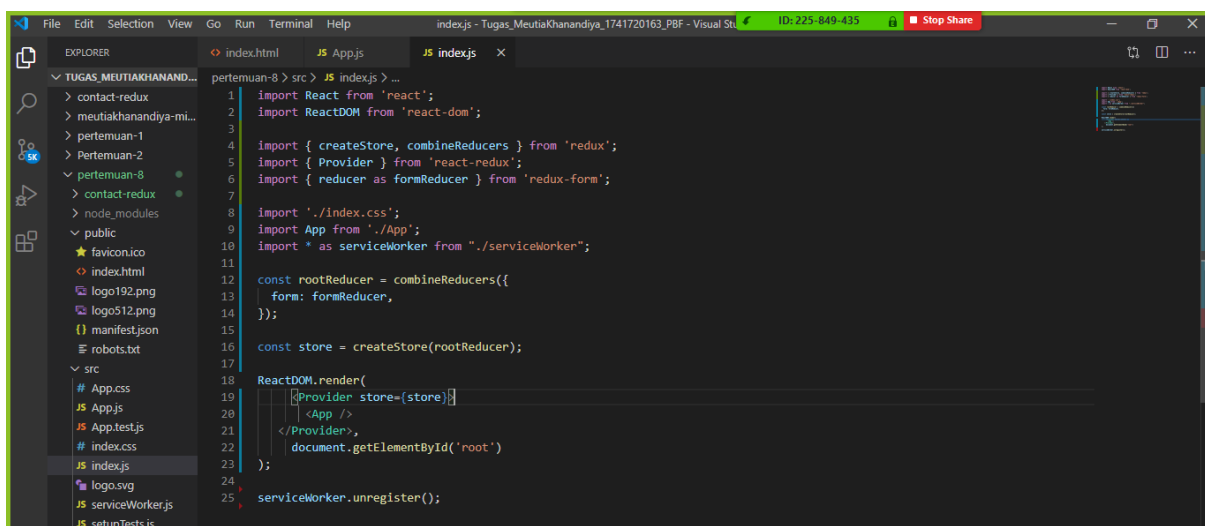
4. Ubah file App.js pada folder /src/App.js



[Gambar 4.1]

(Gambar 4.1 merupakan App.js dengan source yang telah di ubah)

5. Ubah file /src/index.js



[Gambar 5.1]

(Gambar 5.1 merupakan Index.js dengan source yang telah di ubah)

HASIL PRAKTIKUM

Contact Form

First Name
Meutia

Last Name
Khanandiya

Email Address
khanandyam@gmail.com

Age
20

Proficiency
Intermediate Dev

Gender
☐ Male ☒ Female

☒ Save Details

Message
Redux dan HOC

Submit

Jadi gambar di atas merupakan hasil setelah menambahkan Source dengan komponen yang telah di sesuai pada Praktikum. Setelah mengisi kolom pada tabel dengan lengkap maka click “Submit” Lalu click kanan dan Inspect

Back	Alt+Left Arrow
Forward	Alt+Right Arrow
Reload	Ctrl+R
Save as...	Ctrl+S
Print...	Ctrl+P
Cast...	
Translate to English	
View page source	Ctrl+U
Inspect	Ctrl+Shift+I

Setelah click tombol “Inspect” atau Ctrl+Shift+I lalu pilih Console maka akan muncul seperti gambar di bawah ini :

```

Object
App.js:133
{firstName: "Meutia", lastName: "khanandiya", email:
  "khanandyam@gmail.com", age: "20", proficiency: "intermediate", ...}
  firstName: "Meutia"
  lastName: "khanandiya"
  email: "khanandyam@gmail.com"
  age: "20"
  proficiency: "intermediate"
  gender: "female"
  saveDetails: true
  message: "Redux dan HOC"
  __proto__: Object
  
```