MODUL 7
REDUX AND HOC

PEMROGRAMAN BERBASIS FRAMEWORK

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JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI D4 TEKNIK INFORMATIKA

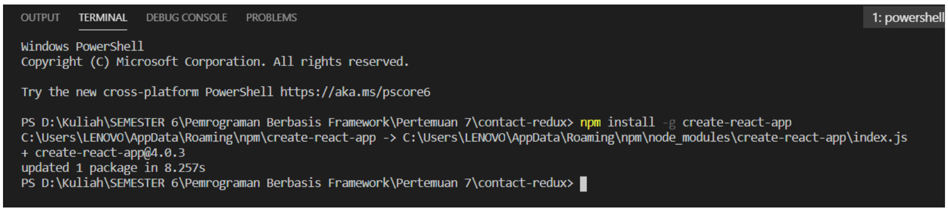
MARET 2021

PRAKTIKUM

<table>
<tr><th>No</th><th>Keterangan</th></tr>
<tr><td>1</td><td>

Buat dan install redux

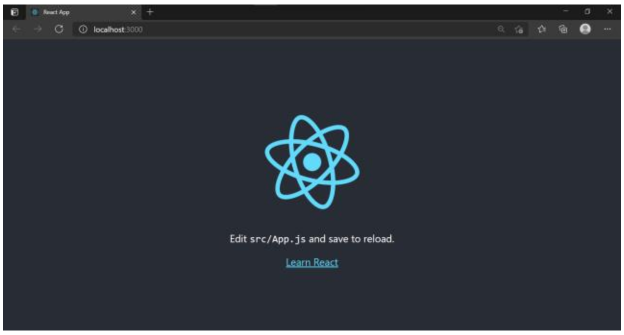
- npm install -g create-react-app



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 7\contact-redux> npm install -g create-react-app
C:\Users\LENOVO\AppData\Roaming\npm\create-react-app -> C:\Users\LENOVO\AppData\Roaming\npm\node_modules\create-react-app\index.js
+ create-react-app@4.0.3
updated 1 package in 8.257s
PS D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 7\contact-redux>
```

- npx create-react-app contact-redux

- npm start



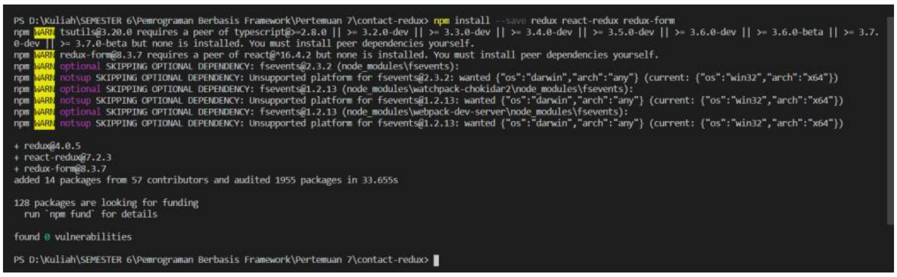
Edit src/App.js and save to reload.

Learn React

</td></tr>
<tr><td>2</td><td>

Install Form

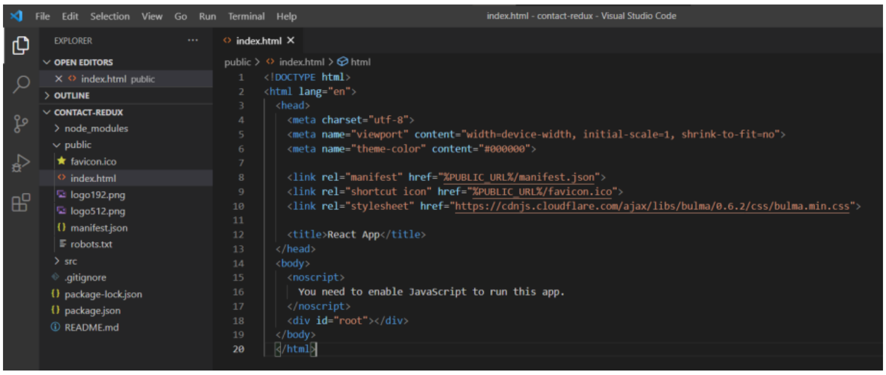
npm install --save redux react-redux redux-form



```
PS D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 7\contact-redux> npm install --save redux react-redux redux-form
npm WARN tsutils@3.20.0 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@8.3.7 requires a peer of react@^16.4.2 but none is installed. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ redux@4.0.5
+ react-redux@7.2.3
+ redux-form@8.3.7
added 14 packages from 57 contributors and audited 1955 packages in 33.655s

128 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

PS D:\Kuliah\SEMESTER 6\Pemrograman Berbasis Framework\Pertemuan 7\contact-redux>
```

</td></tr>
<tr><td>3</td><td>

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

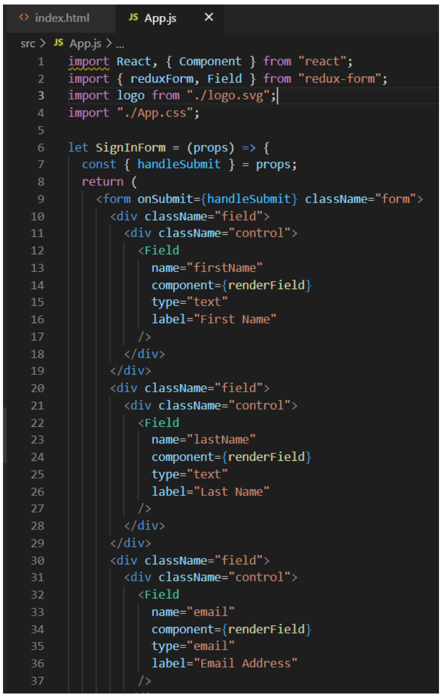


```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="theme-color" content="#000000">

    <link rel="manifest" href="%PUBLIC_URL%/manifest.json">
    <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bulma/0.6.2/css/bulma.min.css">

    <title>React App</title>
  </head>
  <body>
    <noscript>
      You need to enable JavaScript to run this app.
    </noscript>
    <div id="root"></div>
  </body>
</html>
```

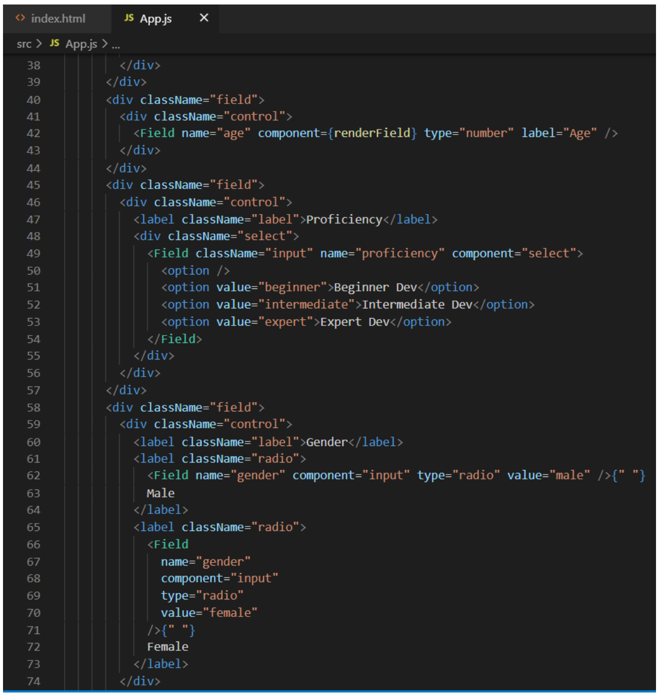
</td></tr>
</table>

4

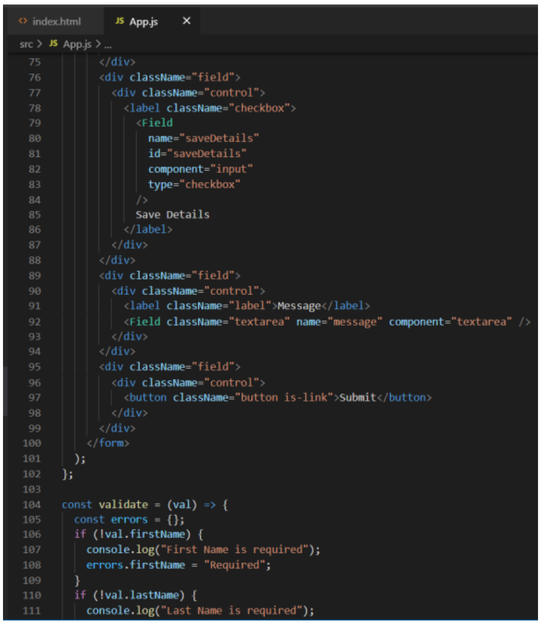
Ubah file App.js pada folder /src/App.js



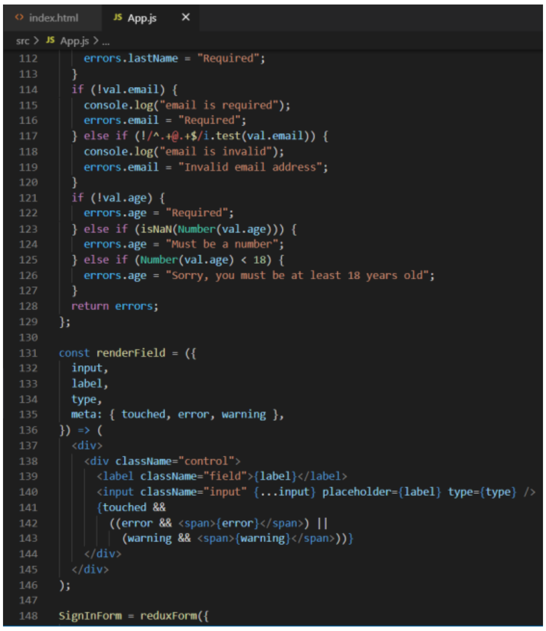
```
import React, { Component } from "react";
import { reduxForm, Field } from "redux-form";
import logo from "./logo.svg";
import "./App.css";

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"
          />
```



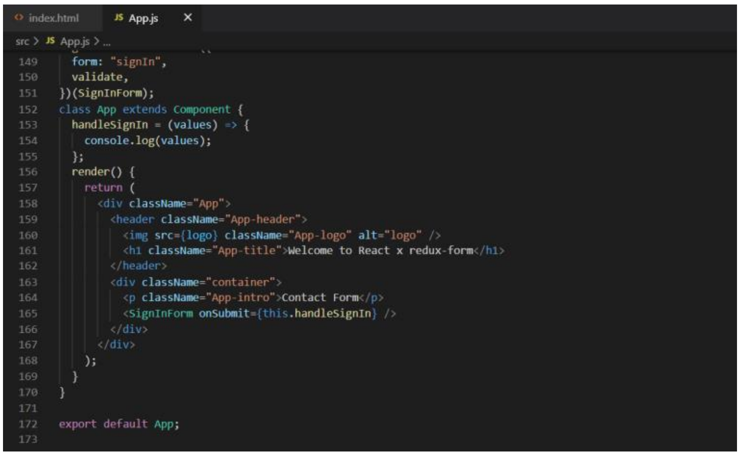
```
        </div>
      </div>
      <div className="field">
        <div className="control">
          <Field name="age" component={renderField} type="number" label="Age" />
        </div>
      </div>
      <div className="field">
        <div className="control">
          <label className="label">Proficiency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

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");
```

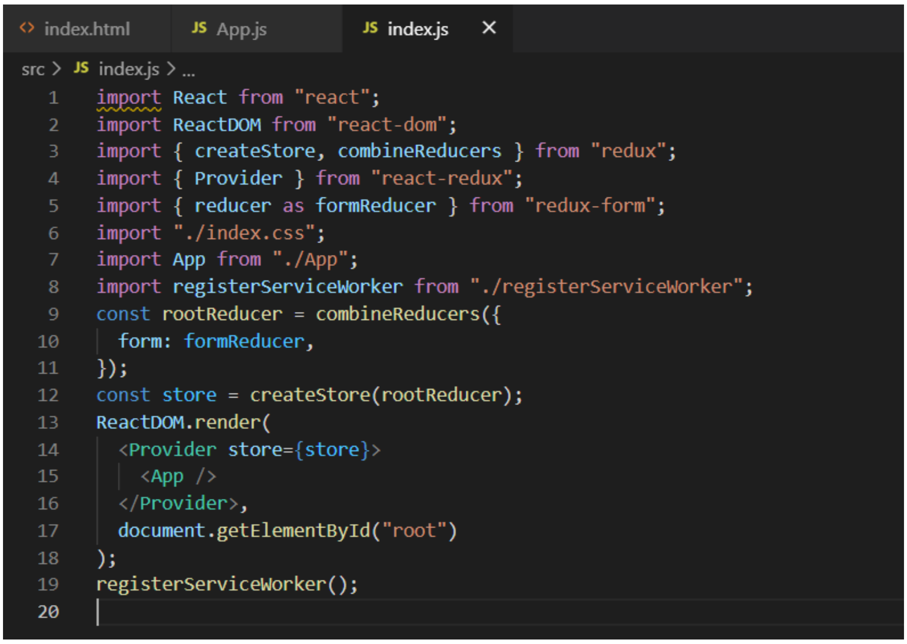


```
    errors.lastName = "Required";
  }
  if (!val.email) {
    console.log("email is required");
    errors.email = "Required";
  } else if (!/^.+@.+$/i.test(val.email)) {
    console.log("email is invalid");
    errors.email = "Invalid email address";
  }
  if (!val.age) {
    errors.age = "Required";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



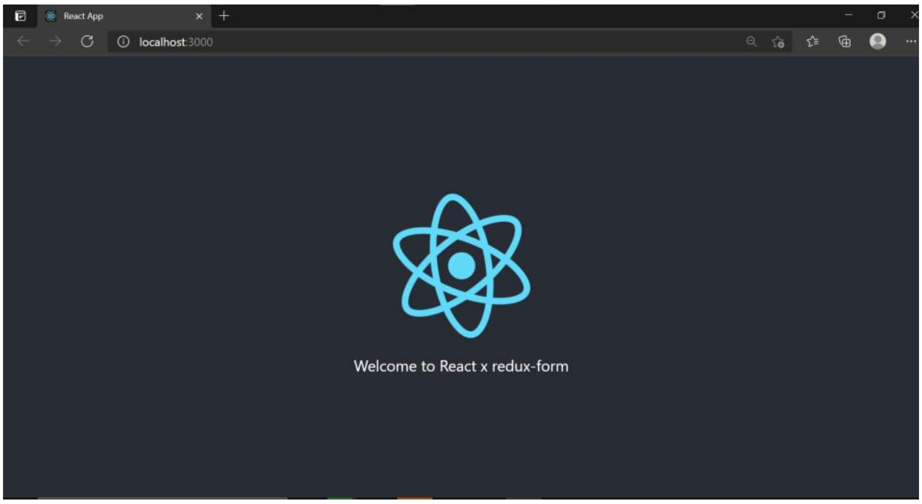
```
  form: "signIn",
  validate,
})(SignInForm);
class App extends Component {
  handleSignIn = (values) => {
    console.log(values);
  };
  render() {
    return (
      <div className="App">
        <header className="App-header">
          <img src={logo} className="App-logo" alt="logo" />
          <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

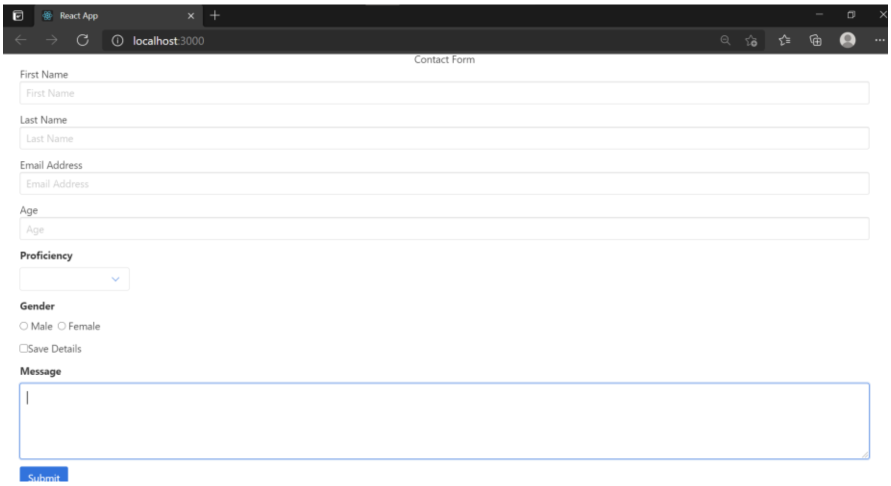


```
import React from "react";
import ReactDOM from "react-dom";
import { createStore, combineReducers } from "redux";
import { Provider } from "react-redux";
import { reducer as formReducer } from "redux-form";
import "./index.css";
import App from "./App";
import registerServiceWorker from "./registerServiceWorker";
const rootReducer = combineReducers({
  form: formReducer,
});
const store = createStore(rootReducer);
ReactDOM.render(
  <Provider store={store}>
    <App />
  </Provider>,
  document.getElementById("root")
);
registerServiceWorker();
```

6 Running hasilnya dan buatlah laporan



Welcome to React x redux-form



Contact Form

First Name

First Name

Last Name

Last Name

Email Address

Email Address

Age

Age

Proficiency

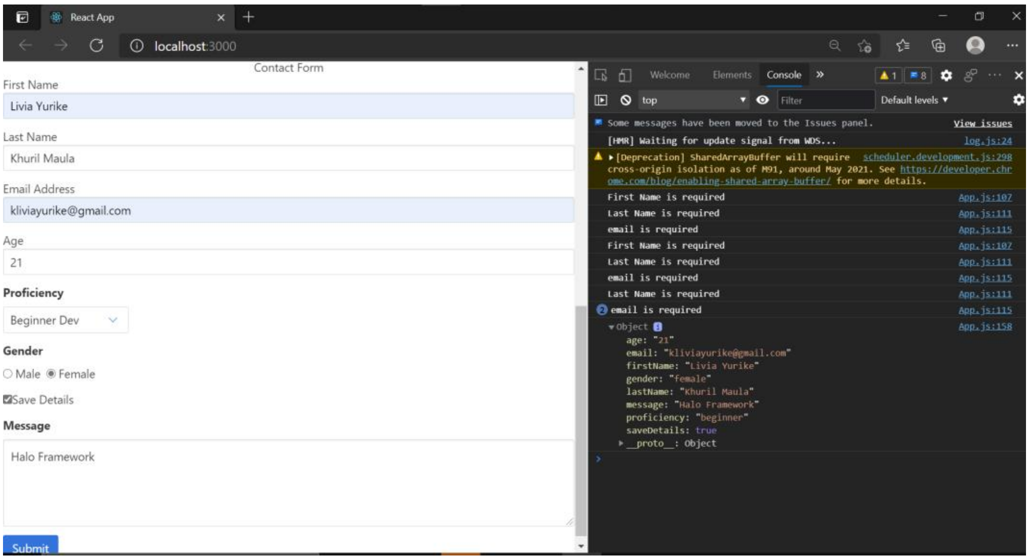
Gender

○ Male ○ Female

□Save Details

Message

Submit

	Ketika form diisi dan disubmit – pada console 

Contact Form

First Name
Livia Yurike

Last Name
Khuril Maula

Email Address
kliviayurike@gmail.com

Age
21

Proficiency
Beginner Dev

Gender
○ Male ● Female

☑ Save Details

Message
Halo Framework

```
Some messages have been moved to the Issues panel.                View issues
[HMR] Waiting for update signal from WDS...                       log.js:24
▸[Deprecation] SharedArrayBuffer will require   scheduler.development.js:298
cross-origin isolation as of M91, around May 2021. See https://developer.chr
ome.com/blog/enabling-shared-array-buffer/ for more details.
First Name is required                                            App.js:107
Last Name is required                                             App.js:111
email is required                                                 App.js:115
First Name is required                                            App.js:107
Last Name is required                                             App.js:111
email is required                                                 App.js:115
Last Name is required                                             App.js:111
2 email is required                                               App.js:115
▾Object i                                                         App.js:158
   age: "21"
   email: "kliviayurike@gmail.com"
   firstName: "Livia Yurike"
   gender: "female"
   lastName: "Khuril Maula"
   message: "Halo Framework"
   proficiency: "beginner"
   saveDetails: true
  ▸__proto__: Object
>
```

Link youtube :
https://youtu.be/PoyzCnsdnwM

Link Github :
https://github.com/liviayurike/Pemrograman-Berbasis-Framework/tree/master/Pertemuan%207