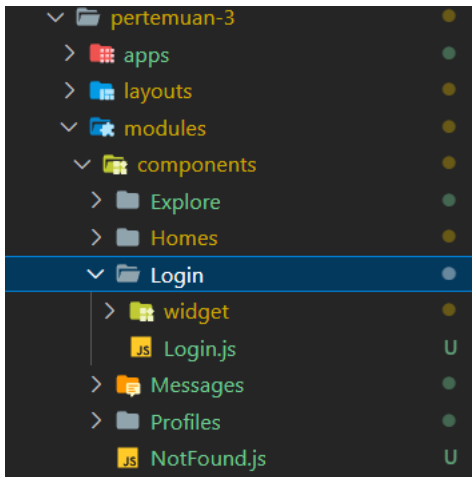


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1. Pada bagian **2.2 Menggunakan Router**, terlihat pada komponen AppRoute setiap end-point perlu diinisialisasi atau didefinisikan sebagai turunan komponen Layouts. Jika anda memiliki lebih dari 10 end-point maka anda perlu mendefinisikan ± 10 komponen sebagai bentuk turunan komponen Layout, teknik ini dapat sangat merepotkan bagi para developer. Cobalah anda buat teknik model algoritma yang lebih sederhana dari file AppRoute tersebut. Contoh, jika memiliki ± 10 komponen maka cukup hanya 1 kali mendefinisikannya, maka ± 10 komponen tersebut sudah diketahui bahwa mereka adalah komponen turunan dari Layouts.

```
import React from 'react'
import { Route, Routes } from 'react-router-dom'
import Layouts from '../layouts/Layouts'
import Home from '../modules/components/Homes/Home'
import Explore from '../modules/components/Explore/Explore'
import Messages from '../modules/components/Messages/Messages'
import Feeds from '../modules/components/Explore/widgets/Feeds'
import Reels from '../modules/components/Explore/widgets/Reels'
import FYP from '../modules/components/Explore/widgets/FYP'
import Profiles from '../modules/components/Profiles/Profiles'
import NotFound from '../modules/components/NotFound'
import Login from '../modules/components/Login/Login'
const routes = [
  { path: "", element: <Home /> },
  { path: "home", element: <Home /> },
  {
    path: "explore",
    element: <Explore />,
    children: [
      { path: "feeds", element: <Feeds /> },
      { path: "reels", element: <Reels /> },
      { path: "fyp", element: <FYP /> },
    ],
  },
  { path: "messages", element: <Messages /> },
  { path: "profile", element: <Profiles /> },
```

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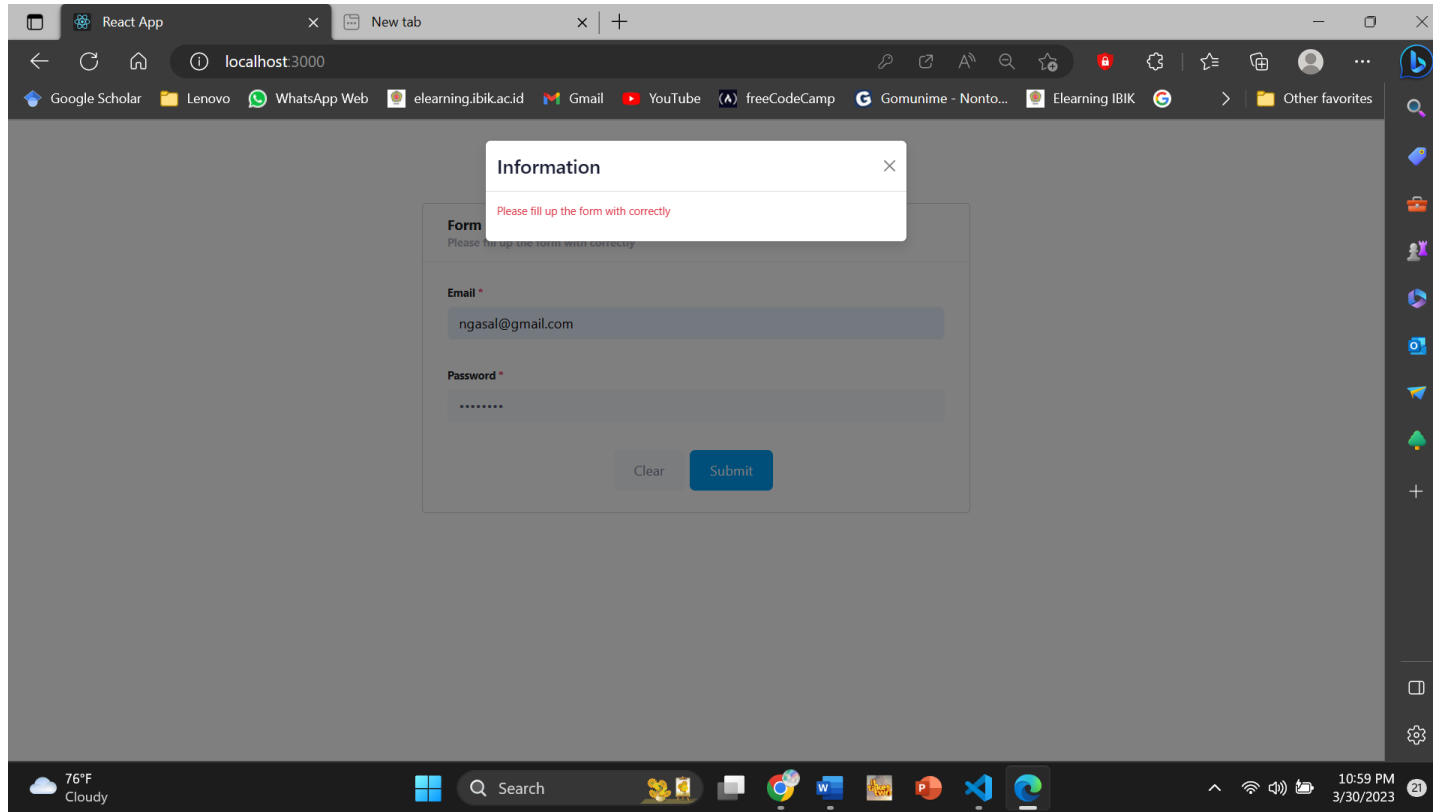
```
];  
// Render AppRoutes with Wrapper as Parent Component  
  
export default function AppRoute() {  
  return (  
    <Routes>  
      <Route index element={<Login />} />  
      {routes.map((route) => (  
        <Route  
          key={route.path}  
          path={route.path}  
          element={<Layouts>{route.element}</Layouts>}  
        >  
          {route.children?.map((child) => (  
            <Route key={child.path} path={child.path} element={child.element} />  
          ))}  
        </Route>  
      )]}  
      <Route path="login" element={<Login />} />  
      <Route path="*" element={<NotFound />}/>  
    </Routes>  
  );  
}
```

2. Buatlah sebuah end-point baru untuk Login dengan isian form email dan password (bukan turunan komponen Layouts). Jika data email dan password salah maka akan menampilkan pesan error, sedangkan jika benar maka

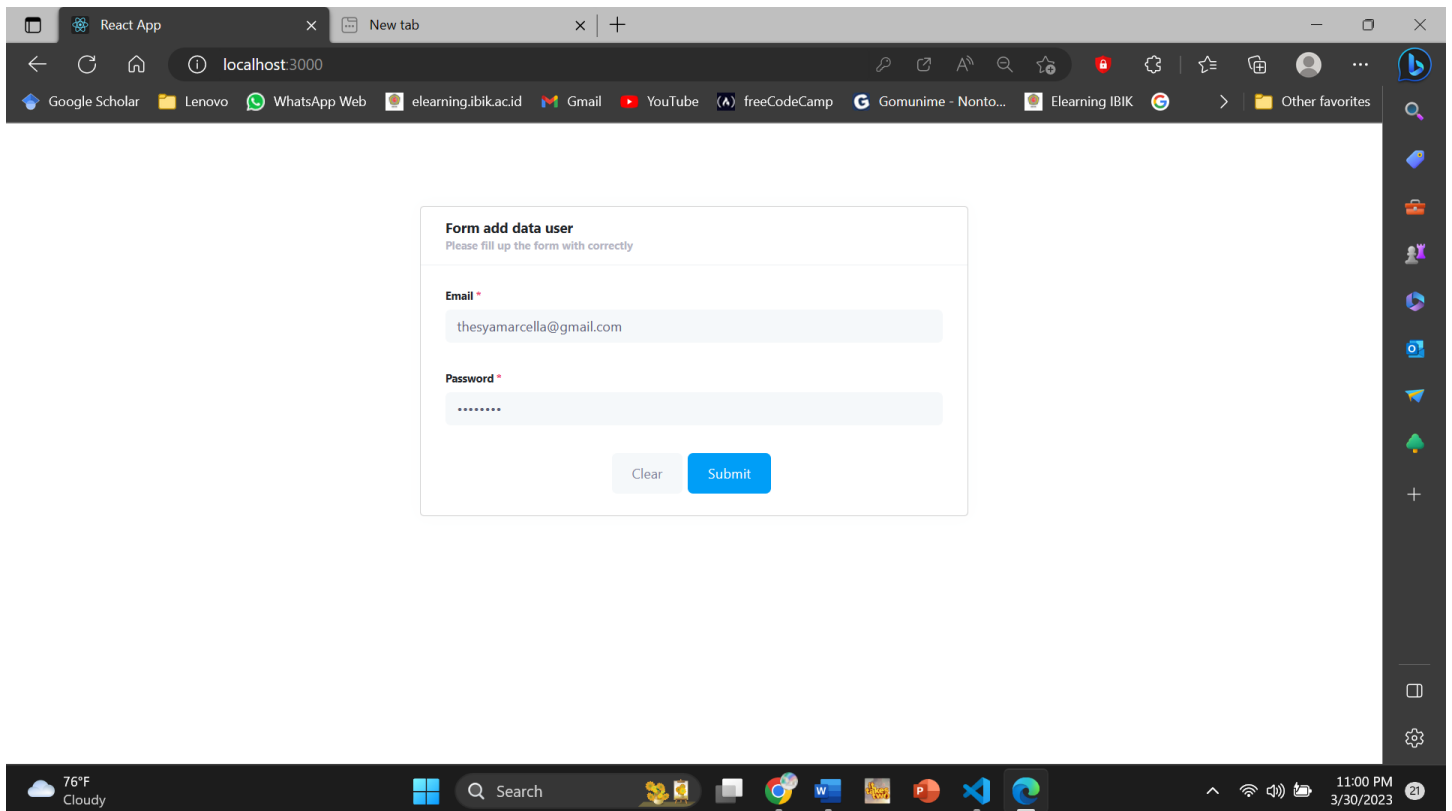
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akan meredirect ke halaman HOME.



Email / Password salah menampilkan error alert

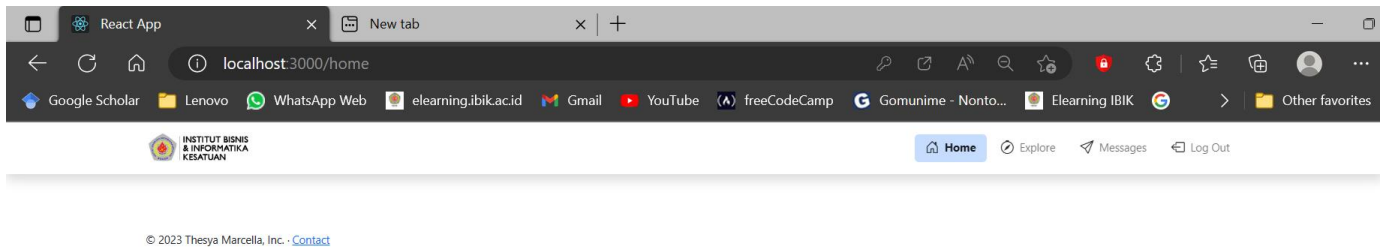


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Email / Password benar maka akan masuk ke menu home

```
import React, { useState } from 'react';
import "react-datepicker/dist/react-datepicker.css";
import { Navigate } from "react-router-dom";
import { openModal } from '../layouts/components/modals/ModalPopUp';
import ModalPopUp from '../layouts/components/modals/ModalPopUp';

export default function FormLogin() {
  var today = new Date();
  const objLogin = {
    email: '',
    password: ""
  }

  const [login, setLogin] = useState(objLogin);
  const [successSubmit, setSuccessSubmit] = useState(false);

  const handlerSubmit = (e) => {
    e.preventDefault();
    var formid = e.target.id;
    var target = document.getElementById(formid);
```

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```
var myButton = target.getElementsByClassName("btn-submit")[0];
myButton.textContent = "Processing...";
myButton.disabled = true;
if (login.email === "thesyamarcella@gmail.com" && login.password === "Thesya21") {
  openModal({ header: "Information", message: <RenderMessage login={login} /> });
  setSuccessSubmit(true);
} else {
  openModal({ header: "Information", message: <p className="text-danger">Please
fill up the form with correctly</p> });
}
myButton.textContent = "Submit";
myButton.disabled = false;
}

return (
  (successSubmit) ? <Navigate to="/home" replace={true} /> : (
    <main className='mt-20 py-10'>
      <div className='card '>
        <div className="card-header">
          <h3 className="card-title align-items-start flex-column">
            <span className="card-label fw-bolder text-dark">Form add data
user</span>
            <span className="text-gray-400 mt-1 fw-bold fs-6">Please fill up
the form with correctly</span>
          </h3>
        </div>
        <div className="card-body">
          <form className='form-login' method='post' onSubmit={(e) =>
handlerSubmit(e)} id="form-login" >
            <div className="fv-row mb-10 fv-plugins-icon-container">
              <label className="required form-label fs-6 fw-bolder text-
dark">Email</label>
              <input type="email" name="email" required className='form-
control form-control-lg form-control-solid' defaultValue={login.email} onChange={(e) =>
setLogin({ ...login, email: e.target.value })} />
            </div>
            <div className="fv-row mb-10 fv-plugins-icon-container">
              <label className="required form-label fs-6 fw-bolder text-
dark">Password</label>
              <input type="password" name="password" required
className='form-control form-control-lg form-control-solid' defaultValue={login.password}
onChange={(e) => setLogin({ ...login, password: e.target.value })} />
            </div>
          </form>
        </div>
      </div>
    </main>
  )
)
```

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```
        <div className="text-center">
          <button type="button" className='btn btn-lg btn-
light'>Clear</button>
          <button type="submit" className='btn btn-lg btn-primary mx-2
btn-submit'>Submit</button>
        </div>
      </form>
    </div>
  </div>
  <ModalPopUp />
</main>
)
)
}

const RenderMessage = ({ login }) => {
  return (
    <div className="login">
      <p className="text-dark">Email: {login.email}</p>
      <p className="text-dark">Login Successful</p>
    </div>
  )
}
```

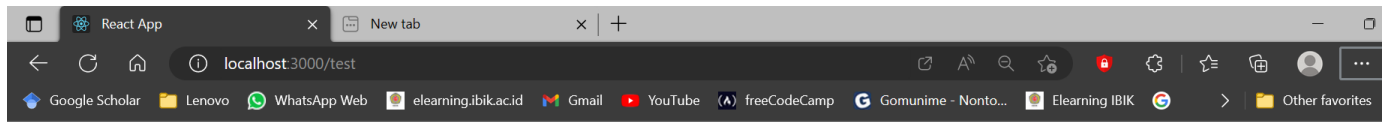
3. Buatlah sebuah komponen baru yang menampilkan halaman Error 404. Buatlah sebuah kondisi jika end-point yang tidak didaftarkan atau tidak tersedia dalam BrowserRouter maka akan menampilkan halaman Error 404.

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Error 404 | Page Not Found

tekan link dibawah ini untuk kembali ke halaman:

[Home](#)

[Explore](#)

[Messages](#)

NotFound.js

```
import { Link } from "react-router-dom";

export default function NotFound() {
  return (
    <div>
      <h1><b>Error 404 | Page Not Found</b></h1>
      <p>tekan link dibawah ini untuk kembali ke halaman:</p>
      <Link to="/">Home</Link>
      <Link to="/explore">Explore</Link>
      <Link to="/messages">Messages</Link>
    </div>
  )
}
```

AppRoute.js tambahkan

```
<Route path='*' element={<NotFound />}/>
```