Step 9

ทำการเข้าไปที่ ubuntu backend และทำการกำหนด port

```
| District | District
```

เปิด port 4040

```
lertpisit@backend001:/var/www/lab4$ sudo ufw allow 4040
```

แก้ไข nginx.conf

```
lertpisit@backend001:/etc/nginx$ sudo nano nginx.conf
```

ก่อน

```
include /etc/nginx/conf.d/*.conf;
include /etc/nginx/sites-enabled/*;
```

หลัง

```
include /etc/nginx/conf.d/*.conf;
include /etc/nginx/sites-available/*;
```

สร้างไฟล์ apimiterm ที่ sites-available

```
lertpisit@backend001:/etc/nginx/sites-available$ sudo nano apimidterm
```

```
GNU nano 6.2

server {
    listen 80;
    listen [::]:80;

    server_name api.midterm-engse202-001.com;

    location / {
        proxy_pass http://327.0.0.1;040;
        proxy_set_header tupgrade;
        proxy_set_header upgrade shttp_upgrade;
        proxy_set_header connection 'upgrade';
        proxy_set_header bush shost;
        proxy_cache_bypass shttp_upgrade;
    }
}
```

ไปที่ เครื่อง mac แก้ไข hosts

admin@admins-iMac ~ % sudo nano /etc/hosts

```
##
# Host Database
# R Host Database
# R Host Database
# B localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
# R Localhost is used to configure the loopback interface
# When the system is booting.
# R Localhost is used to configure the loopback interface
# When the system is booting.
# R Localhost is used to configure the loopback interface
# When the system is booting.
# R Localhost is used to configure the loopback interface
# When the system is booting.
# R Localhost is used to configure the loopback interface
# R Localhost is used to configure the loopback interface
# R Localhost is used to configure the lo
```

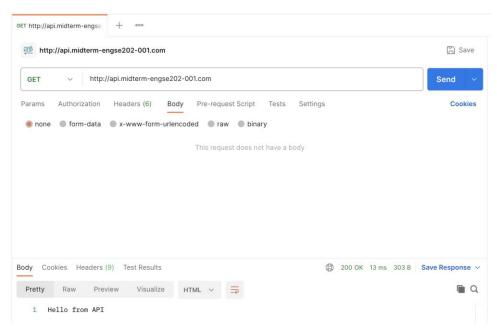
รัน nodemon

lertpisit@backend001:/var/www/lab4/server\$ nodemon index.js

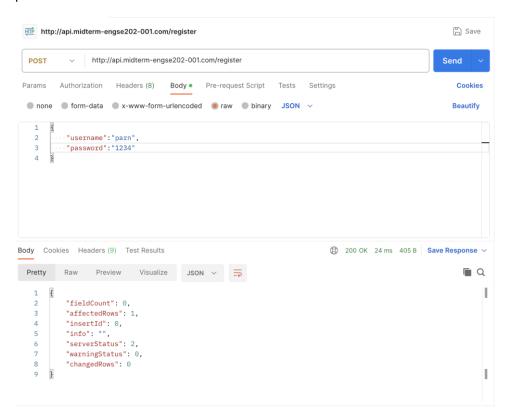
Step 10

Test postman

get



post



Step 11

สร้างไฟล์ login

```
lertpisit@webserver-66543210001:/var/www/nginx$ mkdir login
```

สร้าง react

```
lertpisit@webserver-66543210001:/var/www/nginx/login$ npx create-react-app
Need to install the following packages:
create-react-app@5.0.1
Ok to proceed? (y) y
```

แก้ไข app.css

```
# App.css
login > src > # App.css > ♣ input
      .App {
       text-align: center;
      .registration {
        display: flex;
         flex-direction: column;
         justify-content: center;
        align-items: center;
       .login {
         display: flex;
         flex-direction: column;
         justify-content: center;
         align-items: center;
       input {
        width: 250px;
        height: 40px;
 21
```

แก้ไข index.js

```
# App.css
                 Js index.js
                             X
login > src > JS index.js
       import React from 'react';
       import ReactDOM from 'react-dom';
       import './App.css';
       import App from './App';
       ReactDOM.render(
         <React.StrictMode>
           <App />
         </React.StrictMode>,
         document.getElementById('root')
 10
       );
 11
```

แก้ไข app.js

```
# App.css
                                 JS App.js
login > src > JS App.js > ⊕ App > [ø] register
      import React, { useEffect, useState } from "react";
import Axios from 'axios';
       import './App.css';
       function App() {
       const [usernameReg, setUernameReg] = useState("");
        const [passwordReg, setPasswordReg] = useState ("");
        const [username, setUername] = useState("");
        const [password, setPassword] = useState ("");
        const [loginStatus, setLoginStatus] = useState("");
       const register = () => {
        Axios.post("http://api.midterm-engse202-001.com/register", [
           username: usernameReg,
            password: passwordReg,
           ).then((response) => {
            console.log(response);
        const login = () => {
          Axios.post("http://api.midterm-engse202-001.com/login", {
           username: username,
            password: password,
           }).then((response) => {
           if (!response.data.message) {
               setLoginStatus( response.data.message);
             } else {
              setLoginStatus (response.data[0].message);
```

```
<h1>Registration</h1>
        <label>Username</label>
<input</pre>
         type="text"
onChange={(e) => {
           setUernameReg(e.target.value);
}}
        /><br/><label>password</label><input
          type="text"
onChange={(e) =>{
    setPasswordReg(e.target.value);
         <button onClick={register} > Register</button>
      <div className="login">
        <h1>Login</h1>
            type="text"
             placeholder="Username..."
           type="password"
             placeholder="Password..."
             onChange = { (e) => {
           | setPassword (e.target.value);
}}
          <button onClick={login}>Login</button>
export default App;
```

ลง axios

```
lertpisit@webserver-66543210001:/var/www/nginx/login$ npm i --save axios
added 3 packages, and audited 1556 packages in 2s

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

8 vulnerabilities (2 moderate, 6 high)

To address all issues (including breaking changes), run:
   npm audit fix --force

Run `npm audit` for details.
```

กำหนด port 3012

```
"scripts": {
    "start": "PORT=3012 react-scripts start",
    "build": "react-scripts build",
    "test": "react-scripts test",
    "eject": "react-scripts eject"
},
```

เปิด port 3012

```
lertpisit@webserver-66543210001:/var/www/nginx/login$ sudo ufw allow 3012
```

Copy react1 to login

```
lertpisit@webserver-66543210001:/etc/nginx/sites-available$ sudo cp react1 login
```

แก้ไข login

lertpisit@webserver-66543210001:/etc/nginx/sites-available\$ sudo nano login

```
GNU nano 6.2

server {
    listen 81;
    listen [:]:81];

    server_name login.midterm-engse202-001.com;

location / {
        proxy_pass http://127.0.0.1:3012;
        proxy_beader Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
}

}
```

ไปที่ เครื่อง mac แก้ไข hosts

admin@admins-iMac ~ % sudo nano /etc/hosts

65.5 webl.midterm-engse282-901.com web2.midterm-engse282-901.com react1.midterm-engse282-901.com react2.midterm-engse282-901.com login.midterm-engse282-901.com

รัน login

```
You can now view login in the browser.

Local: http://localhost:3012
On Your Network: http://10.211.55.5:3012

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

รัน server



