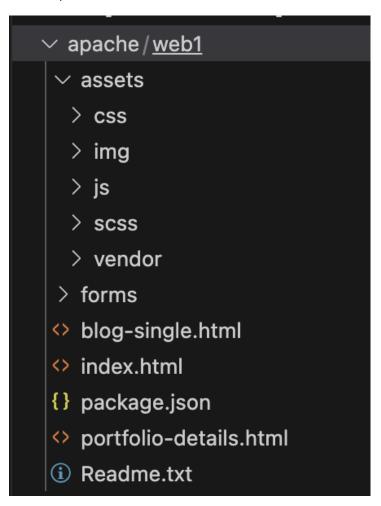
สร้างfolder apache และ nginx และทำการ chown

```
lertpisit@webserver-66543210001:/var/www\$ sudo mkdir apache
lertpisit@webserver-66543210001:/var/www\$ sudo mkdir nginx
lertpisit@webserver-66543210001:/var/www\$ sudo chown -R $USER:\$USER /var/www/apache/
lertpisit@webserver-66543210001:/var/www\$ sudo chown -R \$USER:\$USER /var/www/nginx/
lertpisit@webserver-66543210001:/var/www\$ ls -l
```

โหลด template มาลง



Copy 000-default.conf to web1.conf และ ทำการแก้ไข web1.conf

lertpisit@webserver-66543210001:/var/www/apache/web1\$ cd /etc/apache2/sites-available/

lertpisit@webserver-66543210001:/etc/apache2/sites-available\$ sudo cp 000-default.conf web1.conf lertpisit@webserver-66543210001:/etc/apache2/sites-available\$ ls 000-default.conf default-ssl.conf web1.conf

```
lertpisit@webserver-66543210001:/etc/apache2/sites-available$ sudo nano web1.conf
<VirtualHost *:80>
        # The ServerName directive sets the request scheme, hostname and port that
        # the server uses to identify itself. This is used when creating # redirection URLs. In the context of virtual hosts, the ServerName
        # specifies what hostname must appear in the request's Host: header to
        # match this virtual host. For the default virtual host (this file) this
        # value is not decisive as it is used as a last resort host regardless.
        # However, you must set it for any further virtual host explicitly.
        #ServerName www.example.com
        ServerAdmin webmaster@apache
        ServerName apache
        serverAlias www.apache
        DocumentRoot /var/www/apache/web1
        # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
        # error, crit, alert, emerg.
        # It is also possible to configure the loglevel for particular
        #LogLevel info ssl:warn
        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined
        # For most configuration files from conf-available/, which are
        # enabled or disabled at a global level, it is possible to
        # include a line for only one particular virtual host. For example the
        # following line enables the CGI configuration for this host only
        # after it has been globally disabled with "a2disconf".
        #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

ServerAdmin webmaster@apache
ServerName apache
serverAlias www.apache
DocumentRoot /var/www/apache/web1

Enable web1

```
lertpisit@webserver-66543210001:/var/www/apache/web1$ sudo a2ensite web1
Enabling site web1.
To activate the new configuration, you need to run:
   systemctl reload apache2
```

lertpisit@webserver-66543210001:/var/www/apache/web1\$ sudo systemctl reload apache2

Disable 000-default

```
lertpisit@webserver-66543210001:/var/www/apache/web1$ sudo a2dissite 000-default
Site 000-default disabled.
To activate the new configuration, you need to run:
   systemctl reload apache2
```

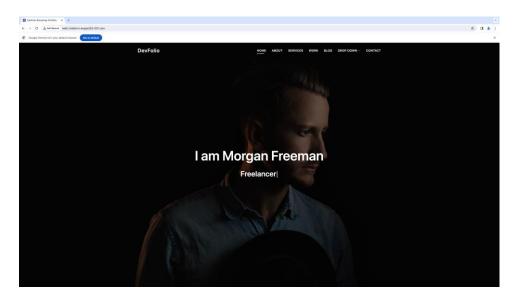
lertpisit@webserver-66543210001:/var/www/apache/web1\$ sudo systemctl reload apache2

ไปที่ mac และแก้ไข hosts

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

10.211.55.5 web1.midterm-engse202-001.com

เข้า domain



โหลด template มาลง

```
v nginx/web2
v assets
css
img
v js
Js main.js
scss
vendor
forms
index.html
inner-page.html
portfolio-details.html
Readme.txt
```

แก้ไขไฟล์ nginx.conf

```
lertpisit@webserver-66543210001:/etc/apache2/sites-available$ cd /etc/nginx/sites-available lertpisit@webserver-66543210001:/etc/nginx/sites-available$

lertpisit@webserver-66543210001:/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/*;
```

lertpisit@webserver-66543210001:/etc/apache2/sites-available\$ cd /etc/nginx/sites-available

lertpisit@webserver-66543210001:/etc/nginx/sites-available\$ sudo nano web2

```
listen 81 default_server;
listen [::]:81 default_server;

# SSL configuration

# # listen 443 ssl default_server;

# listen [::]:443 ssl default_server;

# 
# Note: You should disable gzip for SSL traffic.

# See: https://bugs.debian.org/773332

# 
# Read up on ssl_ciphers to ensure a secure configuration.

# See: https://bugs.debian.org/765782

# 
# Self signed certs generated by the ssl-cert package

# Don't use them in a production server!

# 
# include snippets/snakeoil.conf;

root /var/www/nginx/web2/;
```

เปิด port 81

```
lertpisit@webserver-66543210001:/etc/nginx/sites-available$ sudo ufw allow 81
Rule added
Rule added (v6)
```

Remove file default

```
lertpisit@webserver-66543210001:/etc/nginx/sites-available$ sudo rm default
```

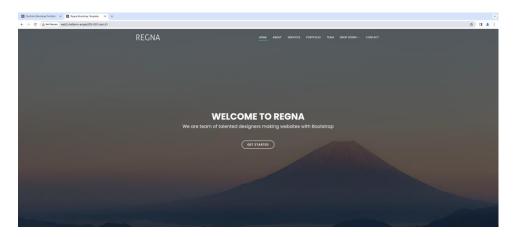
```
lertpisit@webserver-66543210001:/etc/nginx/sites-enabled$ sudo rm default
```

ไปที่ mac และแก้ไข hosts

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

```
10.211.55.5 web1.midterm-engse202-001.com web2.midterm-engse202-001.com
```

เข้า domain



สร้าง folder react1 ,react2

```
lertpisit@webserver-66543210001:/etc/nginx/sites-available$ cd /var/www/nginx/
lertpisit@webserver-66543210001:/var/www/nginx$ mkdir react1
lertpisit@webserver-66543210001:/var/www/nginx$ mkdir react2
lertpisit@webserver-66543210001:/var/www/nginx$ ls
react1 react2 web2
```

ไปที่ mac และแก้ไข hosts

10.211.55.5 web1.midterm-engse202-001.com web2.midterm-engse202-001.com react1.midterm-engse202-001.com react2.midterm-engse202-001.com

โหลด template react มาลง



กำหนด port 3010

```
"scripts": 
"start": "export PORT=3010 SET NODE_OPTIONS=--openssl-legacy-provider && react-scripts start",

"build": "export SET NODE_OPTIONS=--openssl-legacy-provider && react-scripts GENERATE_SOURCEMAP=false react-scripts build",

"test": "react-scripts test",

"eject": "react-scripts eject"

",
```

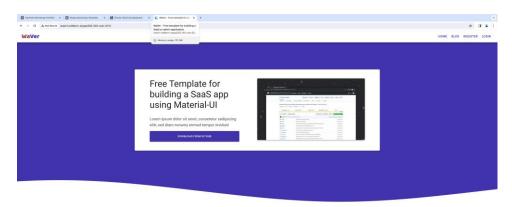
ลง npm

```
lertpisit@webserver-66543210001:/var/www/nginx/react1$ npm install
```

เปิด port 3010

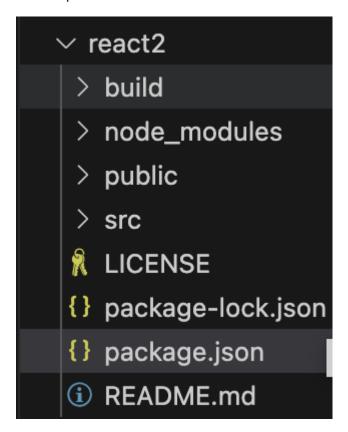
lertpisit@webserver-66543210001:/var/www/nginx/react1\$ sudo ufw allow 3010
Rule added
Rule added (v6)

เข้า domain



Features

โหลด template react มาลง



กำหนด port 3011

```
"scripts": {

"start": "export PORT=3011 SET NODE_OPTIONS=--openssl-legacy-provider && react-scripts start",

"build": "export SET NODE_OPTIONS=--openssl-legacy-provider && react-scripts GENERATE_SOURCEMAP=false react-scripts build",

"test": "react-scripts test",

"eject": "react-scripts eject"
},
```

เปิด port 3011

```
lertpisit@webserver-66543210001:/var/www/nginx/react2$ sudo ufw allow 3011
Rule added
Rule added (v6)
```

npm i

```
lertpisit@webserver-66543210001:/var/www/nginx/react2$ npm i
```

แก้ไข react2

lertpisit@webserver-66543210001:/etc/nginx/sites-available\$ sudo nano react2

```
GNU nano 6.2

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

    server_name react2.midterm-engse282-801.com;

    location / {
        proxy_pass http://127.0.0.1:3011;
        proxy_set_header Upgrade shttp_upgrade;
        proxy_set_header Upgrade shttp_upgrade;
        proxy_set_header Host Shost;
        proxy_cache_bypass shttp_upgrade;
    }
}
```

เข้า domain

