Lab 3 Create Reactis app and Create Nextis app

```
devuser@server:/var/www$ sudo mkdir lab3
[sudo] password for devuser:
  devuser@server:/var/www$ cd lab3
  devuser@server:/var/www/lab3$
```

สร้างไฟล์ LAB3

Update npx

```
devuser@server:/var/www/lab3$ npx create-react-app my-react-app
Need to install the following packages:
create-react-app@5.0.1
Ok to proceed? (y)
```

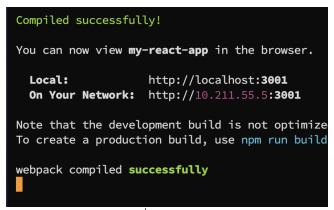
โหลด Reactis

```
devuser@server:/var/www/lab3$ cd my-react-app/
devuser@server:/var/www/lab3/my-react-app$ ls
node_modules package.json package-lock.json public README.md src
devuser@server:/var/www/lab3/my-react-app$ nano package.json
```

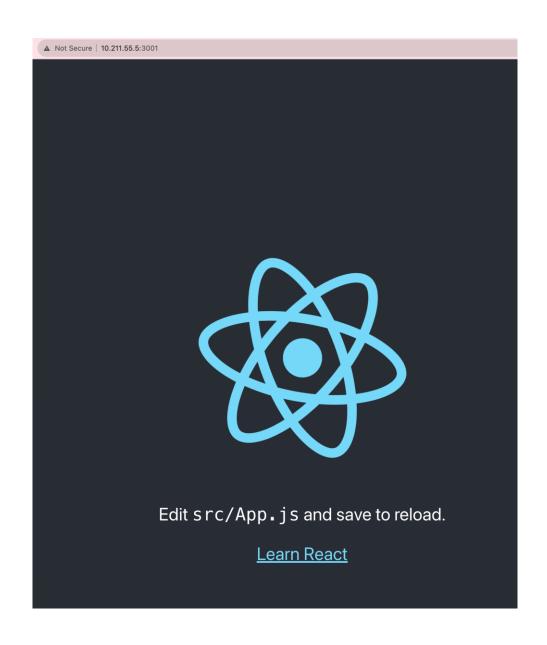
เข้าไปแก้ไข Port ใน Package.json โดยใช้คำสั่ง Nano

```
GNU nano 6.2
"name": "my-react-app",
"version": "0.1.0",
"private": true,
"dependencies": {
  "@testing-library/jest-dom": "^5.17.0",
 "@testing-library/react": "^13.4.0",
 "@testing-library/user-event": "^13.5.0",
 "react": "^18.2.0",
  "react-dom": "^18.2.0",
 "react-scripts": "5.0.1",
 "web-vitals": "^2.1.4"
},
"scripts": {
 "start": "PORT=3001 react-scripts start",
 "build": "react-scripts build",
 "test": "react-scripts test",
 "eject": "react-scripts eject"
"eslintConfig": {
 "extends": [
   "react-app",
    "react-app/jest"
"browserslist": {
  "production": [
   ">0.2%",
    "not dead",
    "not op_mini all"
 "development": [
    "last 1 chrome version",
    "last 1 firefox version",
    "last 1 safari version"
```

เปลี่ยน Port เป็น 3001 ในหัวข้อ Start



ใช้คำสั่งNpm start



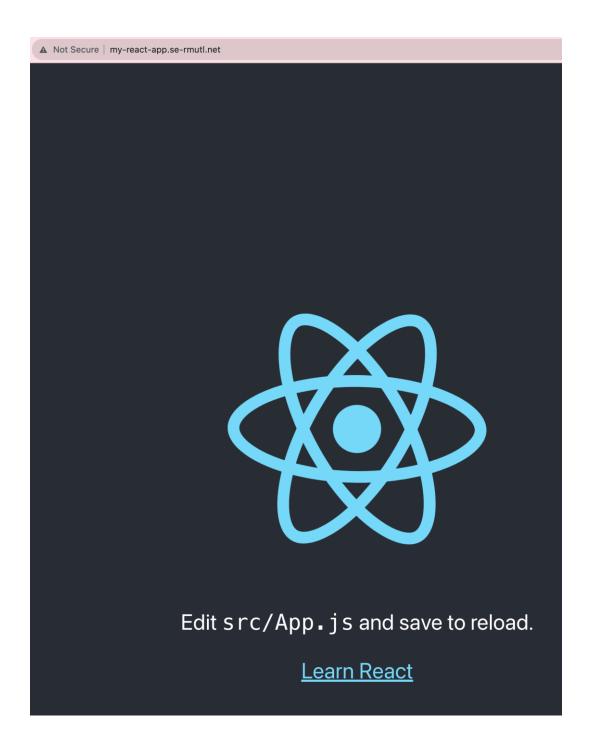
เข้าเช็คโดยหมายเลข ip ตัวเอง 10.211.55.x

```
devuser@server:~$ cd /etc/nginx/sites-available/
devuser@server:/etc/nginx/sites-available$ ls
default expressjs-example myapp
devuser@server:/etc/nginx/sites-available$ sudo cp default reactjs-app
[sudo] password for devuser:
devuser@server:/etc/nginx/sites-available$ sudo nano reactjs-app
devuser@server:/etc/nginx/sites-available$
```

เข้าไปแก้ไข config ใน nginx

แก้ไข port และเปลี่ยน Servername

```
::1 localhost
10.211.55.5 myapp.se-rmutl.net expressjs-example.se-rmutl.net my-react-app.se-rmutl.net
```



เข้า React ด้วย Domain ที่ใส่เข้าไป

devuser@server:/etc/nginx\$ cd /var/www/lab3
devuser@server:/var/www/lab3\$

กลับเข้าไปในไฟล์ Lab3

devuser@server:/var/www/lab3\$ npx create-next-app@latest ubuntu-next-app

โหลดไฟล์ Next js

```
devuser@server:/var/www/lab3$ npx create-next-app@latest ubuntu-next-app
✓ Would you like to use TypeScript? ... No / Yes
✓ Would you like to use ESLint? ... No / Yes
✓ Would you like to use Tailwind CSS? ... No / Yes
✓ Would you like to use `src/` directory? ... No / Yes
✓ Would you like to use App Router? (recommended) ... No / Yes
✓ Would you like to customize the default import alias (@/*)? ... No / Yes
✓ What import alias would you like configured? ... @/*
Creating a new Next.js app in /var/www/lab3/ubuntu-next-app.
Using npm.
Initializing project with template: app-tw
Installing dependencies:
 - react
- react-dom
- next
Installing devDependencies:
typescript
- @types/node
- @types/react
- @types/react-dom
- autoprefixer
postcss
- tailwindcss
- eslint
eslint-config-next
added 333 packages, and audited 334 packages in 11s
117 packages are looking for funding
  run 'npm fund' for details
found • vulnerabilities
Success! Created ubuntu-next-app at /var/www/lab3/ubuntu-next-app
devuser@server:/var/www/lab3$
```

```
devuser@server:/var/www/lab3$ cd ubuntu-next-app/
devuser@server:/var/www/lab3/ubuntu-next-app$ sudo nano package
devuser@server:/var/www/lab3/ubuntu-next-app$ sudo nano package.json
devuser@server:/var/www/lab3/ubuntu-next-app$ sudo ufw allow 3002
Rule added
Rule added (v6)
devuser@server:/var/www/lab3/ubuntu-next-app$
```

เข้าโฟลเดอร์ไปแก้ไข Package.json และเปิด Port 3002

```
"name": "ubuntu-next-app",
"version": "0.1.0",
"private": true,
"scripts": {
  "dev": "next dev -p 3002",
 "build": "next build",
 "start": "next start -p 3002",
 "lint": "next lint"
"dependencies": {
 "react": "^18",
 "react-dom": "^18",
 "next": "14.0.4"
"devDependencies": {
 "typescript": "^5",
 "@types/node": "^20",
 "@types/react": "^18",
 "@types/react-dom": "^18",
 "autoprefixer": "^10.0.1",
 "postcss": "A8",
 "tailwindcss": "^3.3.0",
 "eslint": "^8",
 "eslint-config-next": "14.0.4"
```

เข้าไปแก้ไข ตรง Dev และ start เพื่อเพิ่ม Port 3002

```
devuser@server:/var/www/lab3/ubuntu-next-app$ npm run build
 > ubuntu-next-app@0.1.0 build
> next build
Attention: Next.js now collects completely anonymous telemetry regarding usage.

This information is used to shape Next.js' roadmap and prioritize features.

You can learn more, including how to opt-out if you'd not like to participate in this anonymous program, by visiting the following URL: https://nextjs.org/telemetry
     ▲ Next.js 14.0.4
 \checkmark Creating an optimized production build \checkmark Compiled successfully
 ✓ Linting and checking validity of types
✓ Collecting page data
✓ Generating static pages (5/5)
✓ Collecting build traces
  ✓ Finalizing page optimization
                                                                   Size First Load JS
5.16 kB 87 kB
Route (app)
| o /_not-found

+ First Load JS shared by all

- chunks/938-5e061ba0d46125b1.js
                                                                   869 B
                                                                   81.8 kB
       chunks/fd9d1056-735d320b4b8745cb.js 53.3 kB
      chunks/main-app-b0baefae49ce51a1.js 220 B chunks/webpack-327c219bf3d3ad2c.js 1.65 kB

    (Static) prerendered as static content

 devuser@server:/var/www/lab3/ubuntu-next-app$
```

Npm run build เพื่อสร้าง server

Npm start เพื่อเปิดใช้งาน



เข้าโดยการใช้ Port 3002 และ ipของตัวเอง

devuser@server:/etc/nginx/sites-available\$ sudo cp reactjs-app nextjs-app
[sudo] password for devuser:
devuser@server:/etc/nginx/sites-available\$ sudo nano nextjs-app

```
server {
    listen 80;
    listen [::]:80;
    server_name ubuntu-next-app.se-rmutl.net;

    location / {
        proxy_pass http://127.0.0.1:3002; # !!! - change to your app port
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
}
```

เปลี่ยน Port และ Servername

10.211.55.5 myapp.se-rmutl.net expressjs-example.se-rmutl.net my-react-app.se-rmutl.net ubuntu-next-app.se-rmutl.net

devuser@server:/etc/nginx/sites-available\$ sudo systemctl restart nginx

Restart nginx

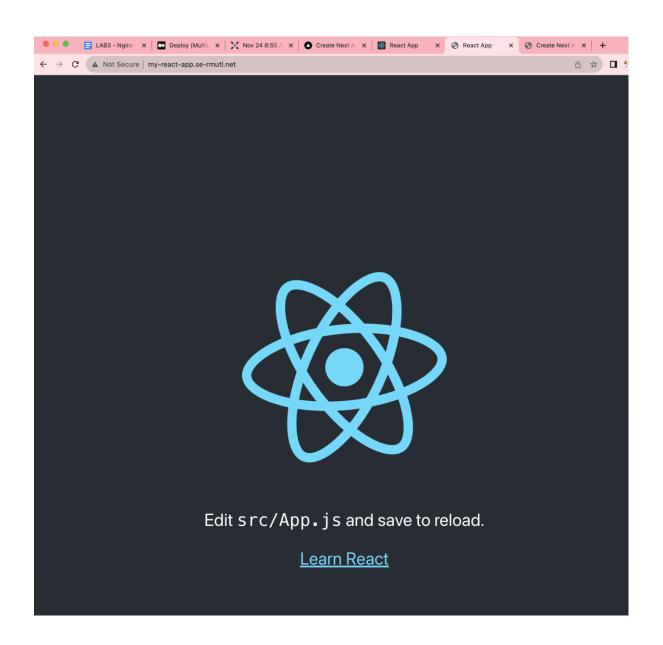


เข้าเว็ปโดยการใช้ Domain name

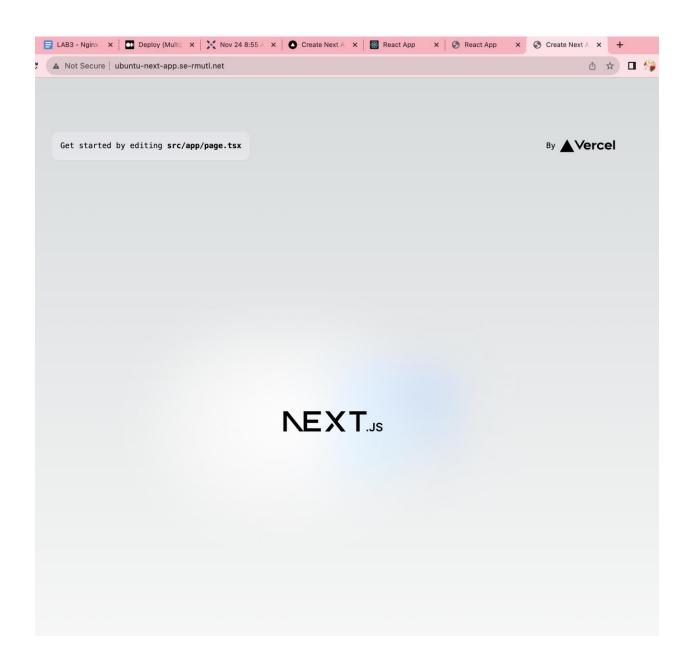
devuser@server:/etc/nginx/sites-available\$ sudo npm install pm2 -g



เข้าโฟลเดอร์ทั้งสอง เว็บไซด์ แล้วเปิดใช้งาน



Reactis



Nextjs