

LAB3

REACT

sudo npm install pm2 -g

```
devuser@server:/var/www/Lab3/my-react-app$ sudo npm install pm2 -g
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.

changed 157 packages in 5s

13 packages are looking for funding
  run 'npm fund' for details
devuser@server:/var/www/Lab3/my-react-app$
```

cd /var/www

sudo mkdir Lab3

```
devuser@server:/var/www/Lab3$
```

sudo chown -R \$USER:\$USER Lab3

cd Lab3

npx create-react-app my-react-app

cd my-react-app

```
devuser@server:/var/www/Lab3/my-react-app$
```

npm start

sudo nano package.json

edit port

```

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"
    ]
  }
}

```

sudo ufw allow 3001

cd /etc/nginx/sites-available

sudo cp default my-react-app

sudo nano my-react-app

```

devuser@server:/var/www/Lab3/my-react-app$ sudo nano package.json
devuser@server:/var/www/Lab3/my-react-app$ cd /etc/nginx/sites-available
devuser@server:/etc/nginx/sites-available$ sudo cp default my-react-app
devuser@server:/etc/nginx/sites-available$ sudo nano my-react-app

```

```

GNU nano 6.2 my-react-app *
server {
    listen 80;
    listen [::]:80;
    server_name my-react-app.se-rmutl.net;

    location / {
        proxy_pass http://127.0.0.1:3001; # !!! - 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;
    }
}

# Virtual Host configuration for example.com
#
# You can move that to a different file under sites-available/ and symlink that
# to sites-enabled/ to enable it.
#
#server {
#    listen 80;
#    listen [::]:80;
#
#    server_name example.com;
#
#    root /var/www/example.com;
#    index index.html;
#
#    location / {
#        try_files $uri $uri/ =404;
#    }
#}

```

systemctl restart nginx.service

```

devuser@server:/etc/nginx/sites-available$ systemctl restart nginx.service
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ====
Authentication is required to restart 'nginx.service'.
Authenticating as: Chatchawarinthan chaithep (devuser)
Password:
==== AUTHENTICATION COMPLETE ====
devuser@server:/etc/nginx/sites-available$

```

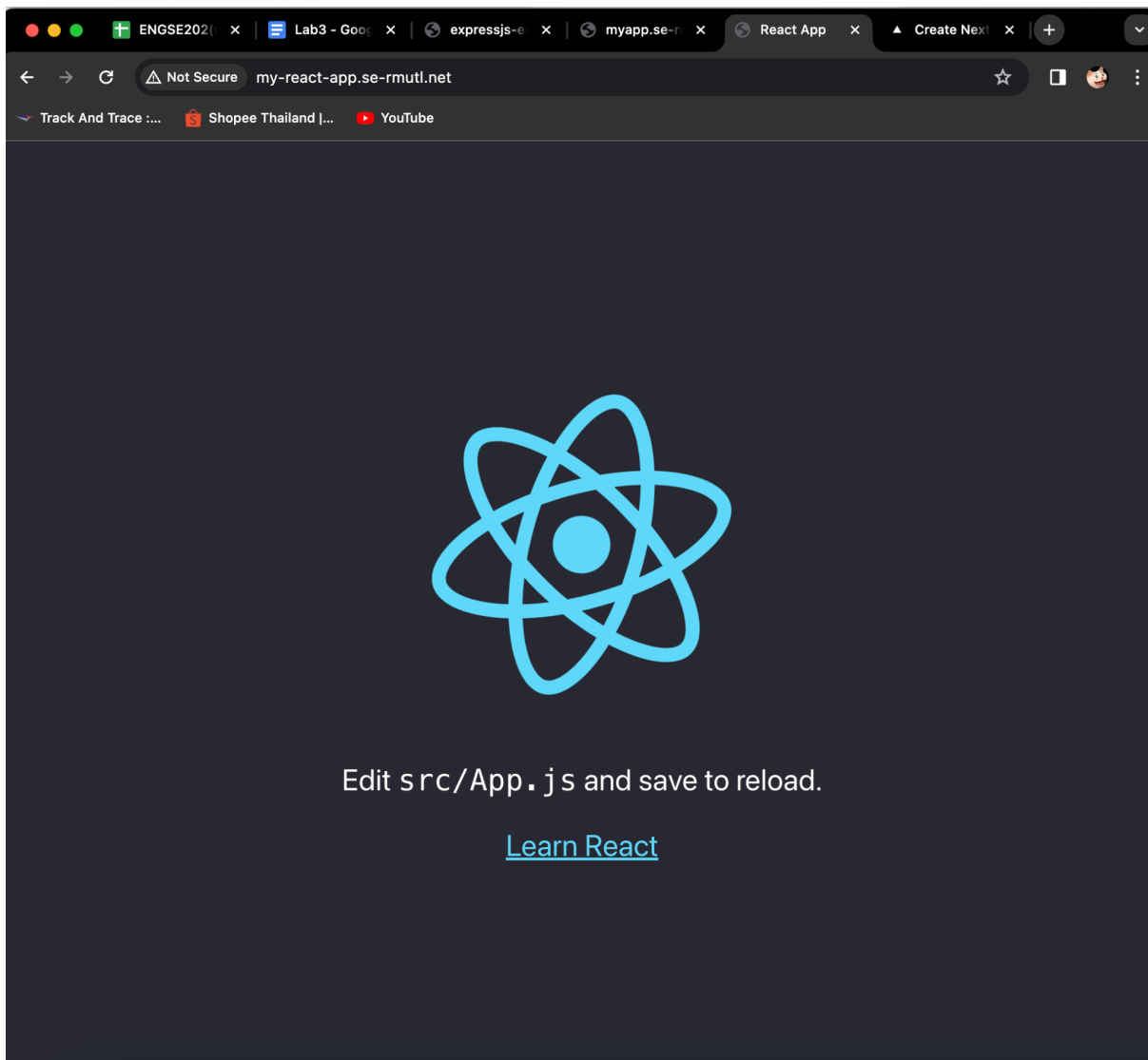
systemctl restart nginx.service

```
admin — pico - sudo — 133x24
UW PICO 5.09 File: /etc/hosts

##
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1    localhost engse203.lab1
255.255.255.255 broadcasthost
::1         localhost
10.211.55.5  myapp.se-rmutl.net
10.211.55.5  my-react-app.se-rmutl.net
10.211.55.5  ubuntu-next-app.se-rmutl.net

^G Get Help      ^O WriteOut      ^R Read File      ^Y Prev Pg      ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify        ^W Where is       ^V Next Pg      ^U UnCut Text    ^T To Spell
```

cd /var/www/Lab3/my-react-app
npm start



Nextjs

cd /var/www/Lab3

npx create-next-app@latest ubuntu-next-app

```
*** System restart required ***
Last login: Fri Dec 15 08:38:02 2023 from 10.211.55.2
devuser@server:~$ cd /var/www/Lab3
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
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
```

cd /var/www/Lab3

npx create-next-app@latest ubuntu-next-app

cd ubuntu-next-app

npm run build

npm start

```
devuser@server:/var/www/Lab3$ cd ubuntu-next-app
devuser@server:/var/www/Lab3/ubuntu-next-app$ npm run build

> ubuntu-next-app@0.1.0 build
> next build

  ▲ Next.js 14.0.4

✓ Creating an optimized production build
✓ Compiled successfully
✓ Linting and checking validity of types
✓ Collecting page data
✓ Generating static pages (5/5)
✓ Collecting build traces
✓ Finalizing page optimization

Route (app)                                Size      First Load JS
┌ ○ /                                       5.16 kB    87 kB
└ ○ /_not-found                           869 B      82.7 kB
+ First Load JS shared by all              81.8 kB
  ├ chunks/938-5e061ba0d46125b1.js         26.7 kB
  ├ chunks/fd9d1056-735d320b4b8745cb.js    53.3 kB
  ├ chunks/main-app-6f5b7f54cc08e54c.js    220 B
  └ chunks/webpack-327c219bf3d3ad2c.js     1.65 kB

○ (Static) prerendered as static content

devuser@server:/var/www/Lab3/ubuntu-next-app$ npm start

> ubuntu-next-app@0.1.0 start
> next start

  ▲ Next.js 14.0.4
  - Local:      http://localhost:3000

✓ Ready in 204ms
```

sudo nano package.json

```
GNU nano 6.2 package.json
{
  "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": "^8",
    "tailwindcss": "^3.3.0",
    "eslint": "^8",
    "eslint-config-next": "14.0.4"
  }
}
```

sudo ufw allow 3002

```
devuser@server:/var/www/Lab3/ubuntu-next-app$ sudo ufw allow 3002
Skipping adding existing rule
Skipping adding existing rule (v6)
devuser@server:/var/www/Lab3/ubuntu-next-app$
```

cd /etc/nginx/sites-available

sudo cp default ubuntu-next-app

sudo nano ubuntu-next-app

```
GNU nano 6.2 ubuntu-next-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;
    }
}
```

sudo systemctl restart nginx

```
admin — pico — sudo — 133x24
UW PICO 5.09 File: /etc/hosts
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# Host Database
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# localhost is used to configure the loopback interface
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##
127.0.0.1 localhost engse203.lab1
255.255.255.255 broadcasthost
::1 localhost
10.211.55.5 myapp.se-rmutl.net
10.211.55.5 my-react-app.se-rmutl.net
10.211.55.5 ubuntu-next-app.se-rmutl.net

Get Help WriteOut Read File Prev Pg Cut Text Cur Pos
Exit Justify Where is Next Pg UnCut Text To Spell
```

cd /var/www/Lab3/ubuntu-next-app

npm run build

npm start

```
devuser@server:/etc/nginx/sites-available$ cd /var/www/Lab3/ubuntu-next-app
devuser@server:/var/www/Lab3/ubuntu-next-app$ npm run build

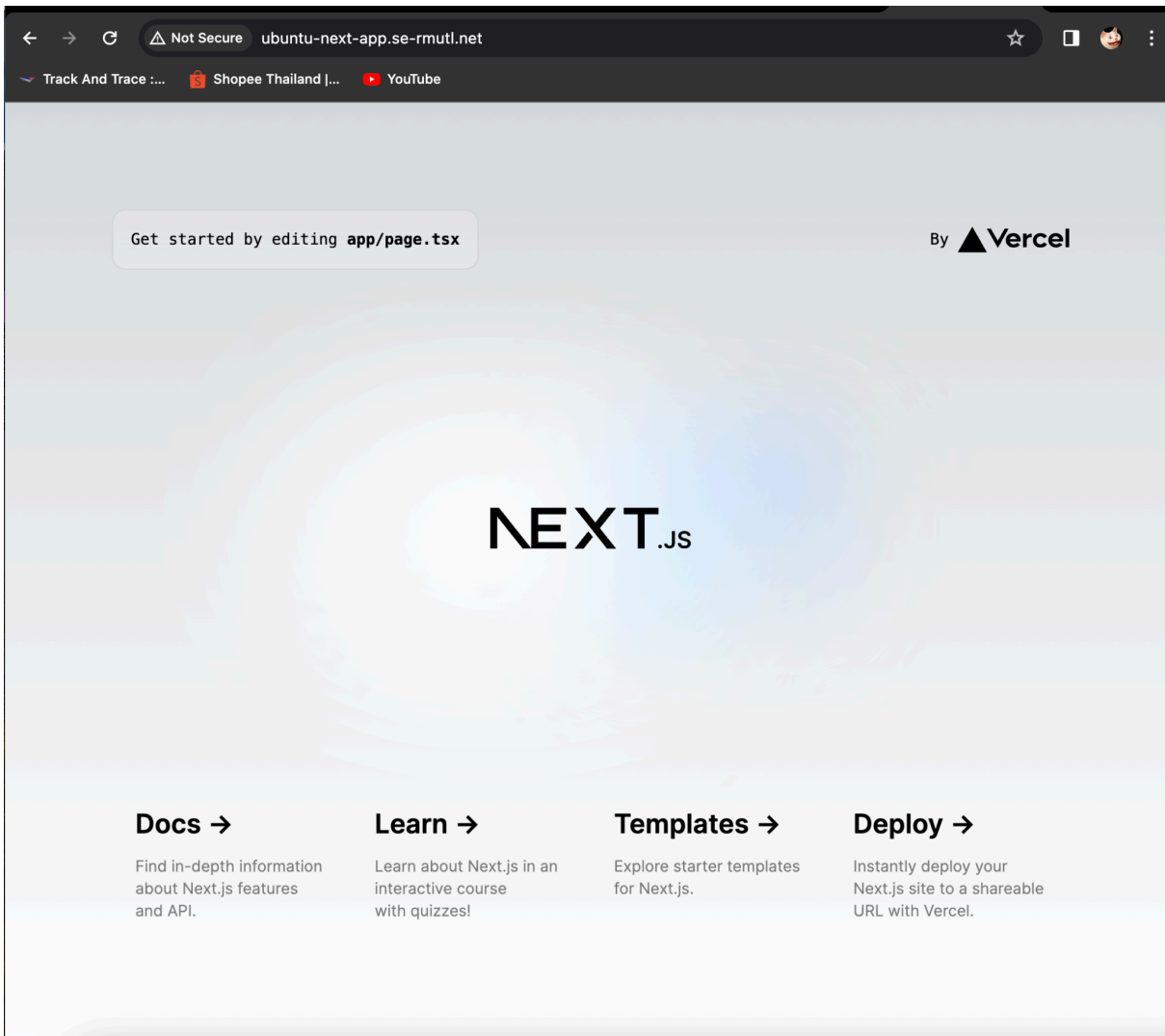
> ubuntu-next-app@0.1.0 build
> next build

  ▲ Next.js 14.0.4

✓ Creating an optimized production build
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  ├ chunks/938-5e061ba0d46125b1.js 26.7 kB
  ├ chunks/fd9d1056-735d320b4b8745cb.js 53.3 kB
  ├ chunks/main-app-6f5b7f54cc08e54c.js 220 B
  └ chunks/webpack-e91a4138b2377b95.js 1.65 kB

○ (Static) prerendered as static content
```

Get started by editing `app/page.tsx`

By **Vercel**

NEXT.js

Docs →

Find in-depth information about Next.js features and API.

Learn →

Learn about Next.js in an interactive course with quizzes!

Templates →

Explore starter templates for Next.js.

Deploy →

Instantly deploy your Next.js site to a shareable URL with Vercel.