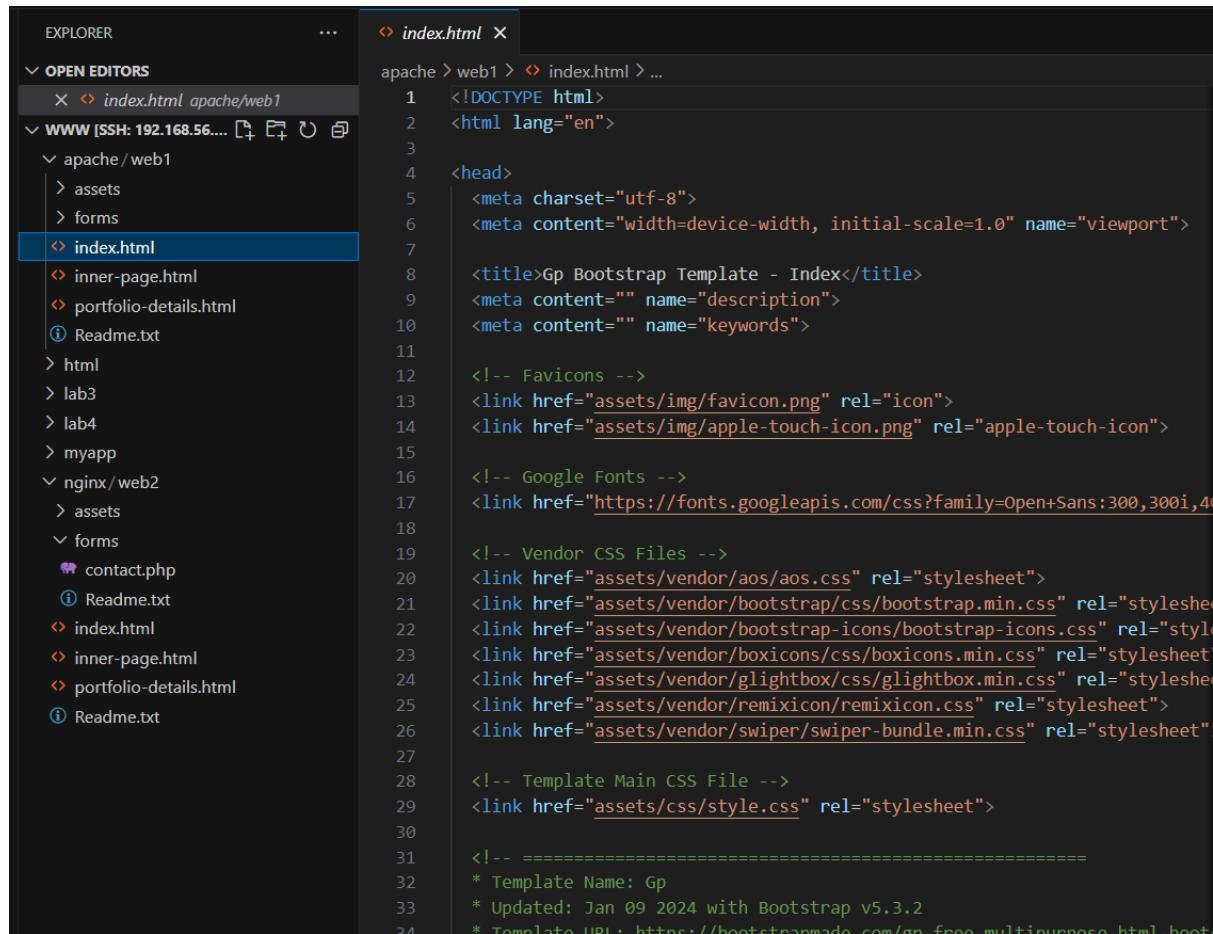


## lab3

### STEP6 ติดตั้งที่ backend1

6.1 ติดตั้ง web template (template ที่1) ที่ได้มาจากการ step5 ทำงานบน Apache ที่ /var/www/apache/web1

```
chonlasak@backend1-66543210008:/var/www$ sudo mkdir apache
chonlasak@backend1-66543210008:/var/www$ cd apache/
chonlasak@backend1-66543210008:/var/www/apache$ sudo mkdir web1
chonlasak@backend1-66543210008:/var/www/apache$ cd web1/
chonlasak@backend1-66543210008:/var/www/apache/web1$ sudo chown -R $USER:$USER /var/www/apache/web1/
chonlasak@backend1-66543210008:/var/www/apache/web1$
```



The screenshot shows a code editor interface with a sidebar labeled "EXPLORER". The sidebar lists several project components: "OPEN EDITORS" (index.html), "WWW [SSH: 192.168.56...]" (apache/web1), "apache / web1" (assets, forms), "index.html" (selected), "inner-page.html", "portfolio-details.html", and "Readme.txt". Below these are sections for "html", "lab3", "lab4", "myapp", "nginx / web2" (assets, forms), and "index.php" (selected), followed by "Readme.txt". The main panel displays the content of the selected "index.html" file:

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <meta content="width=device-width, initial-scale=1.0" name="viewport">
7
8   <title>Gp Bootstrap Template - Index</title>
9   <meta content="" name="description">
10  <meta content="" name="keywords">
11
12  <!-- Favicons -->
13  <link href="assets/img/favicon.png" rel="icon">
14  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">
15
16  <!-- Google Fonts -->
17  <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i&display=swap" rel="stylesheet">
18
19  <!-- Vendor CSS Files -->
20  <link href="assets/vendor/aos/aos.css" rel="stylesheet">
21  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
22  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
23  <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
24  <link href="assets/vendor/lightbox/css/lightbox.min.css" rel="stylesheet">
25  <link href="assets/vendor/remixicon/remixicon.css" rel="stylesheet">
26  <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">
27
28  <!-- Template Main CSS File -->
29  <link href="assets/css/style.css" rel="stylesheet">
30
31  <!-- =====
32  * Template Name: Gp
33  * Updated: Jan 09 2024 with Bootstrap v5.3.2
34  * Template URL: https://bootstrapmade.com/gp-free-multipurpose-html-template/
```

และทำงานที่ port 80 โดยเข้าถึงจากเครื่องภายนอกที่ url  
web1.backend1.com

```
GNU nano 6.2          /etc/apache2/sites-available/web1.conf *
<VirtualHost *:80>
    ServerName web1
    ServerAlias www.web1.backend1.com
    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/apache/web1
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

```
Save modified buffer?
Y Yes
N No      AC Cancel
```

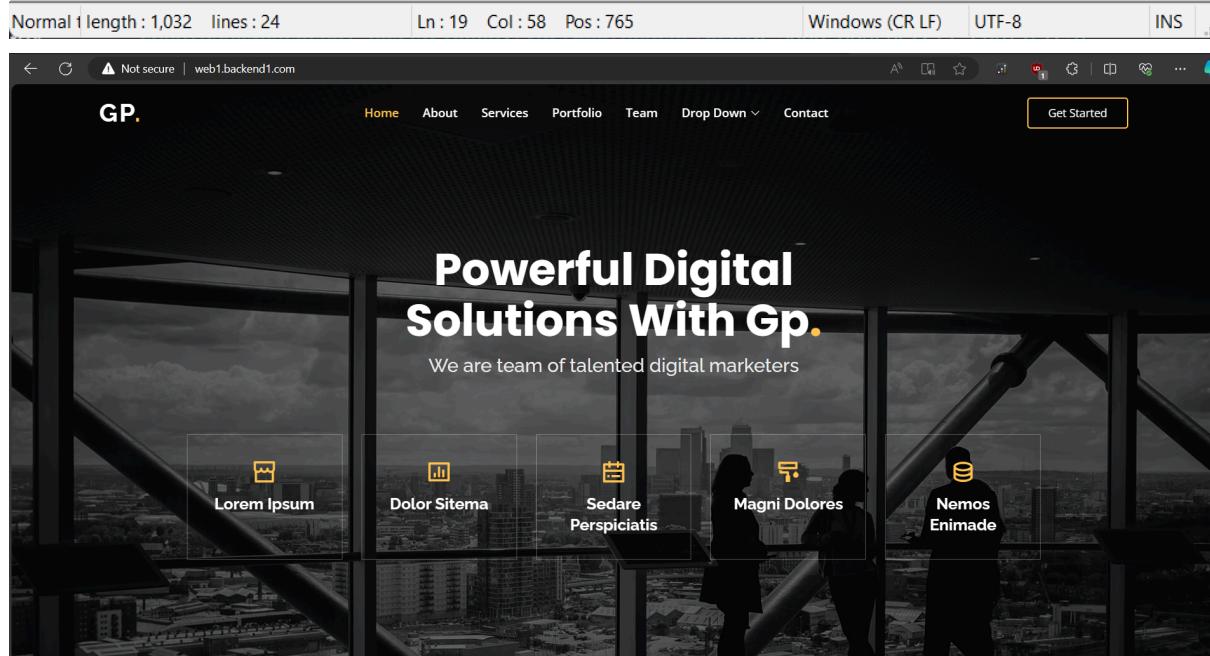
```
chonlasak@backend1-66543210008:/var/www/apache/web1$ sudo nano /etc/apache2/sites-available/we
b1.conf
chonlasak@backend1-66543210008:/var/www/apache/web1$ sudo a2ensite web1
Enabling site web1.
To activate the new configuration, you need to run:
  systemctl reload apache2
chonlasak@backend1-66543210008:/var/www/apache/web1$ sudo a2disssite 000-default
Site 000-default already disabled
chonlasak@backend1-66543210008:/var/www/apache/web1$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using
127.0.1.1. Set the 'ServerName' directive globally to suppress this message
Syntax OK
chonlasak@backend1-66543210008:/var/www/apache/web1$ sudo systemctl reload apache2
chonlasak@backend1-66543210008:/var/www/apache/web1$
```

C:\Windows\System32\drivers\etc\hosts - Notepad++ [Administrator]

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

hosts

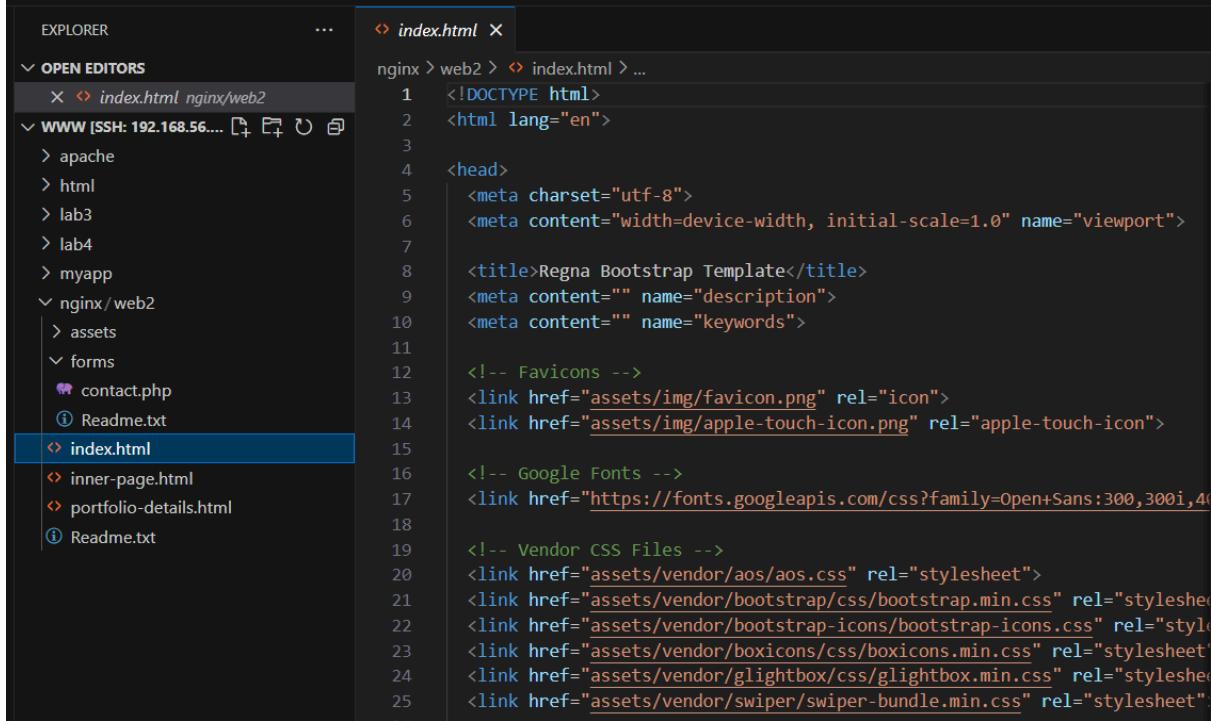
```
4
5   e contains the mappings of IP addresses to host names. Each
6   could be kept on an individual line. The IP address should
7   i in the first column followed by the corresponding host name.
8   ddress and the host name should be separated by at least one
9
10
11  ally, comments (such as these) may be inserted on individual
12  following the machine name denoted by a '#' symbol.
13
14  ple:
15
16 .54.94.97      rhino.acme.com      # source server
17 .25.63.10      x.acme.com        # x client host
18
19 t name resolution is handled within DNS itself.
20 0.1      localhost
21      localhost
22 3.56.102    lab2-1_008 lab2-2_008
23 3.56.104    my-react-app.se-rmutil.net ubuntu-next-app.se-rmutil.net
24 3.56.104    weblogin.se-rmutil.net nodelogin.se-rmutil.net web2.backend1.com web1.backend1.com
```



6.2 ติดตั้ง web template (template ที่2) ที่ได้มาจากการ step5 ทำงานบน Nginx ที่ /var/www/nginx/web2

```
chonlasak@backend1-66543210008:/var/www$ sudo mkdir nginx
chonlasak@backend1-66543210008:/var/www$ cd nginx/
chonlasak@backend1-66543210008:/var/www/nginx$ sudo mkdir web2
chonlasak@backend1-66543210008:/var/www/nginx$ cd web2/
```

```
chonlasak@backend1-66543210008:/var/www/nginx/web2$ sudo chown -R $USER:$USER /var/www/nginx/web2/
```



The screenshot shows a code editor interface with two panes. The left pane is the 'EXPLORER' view, which lists the project structure:

- OPEN EDITORS: index.html (selected)
- WWW [SSH: 192.168.56....]: apache, html, lab3, lab4, myapp
- nginx/web2: assets, forms, contact.php, Readme.txt
- index.html (selected)
- inner-page.html
- portfolio-details.html
- Readme.txt

The right pane shows the content of the selected file, index.html:

```
nginx > web2 > index.html ...
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="utf-8">
6      <meta content="width=device-width, initial-scale=1.0" name="viewport">
7
8      <title>Regna Bootstrap Template</title>
9      <meta content="" name="description">
10     <meta content="" name="keywords">
11
12     <!-- Favicons -->
13     <link href="assets/img/favicon.png" rel="icon">
14     <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">
15
16     <!-- Google Fonts -->
17     <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i&display=swap" rel="stylesheet">
18
19     <!-- Vendor CSS Files -->
20     <link href="assets/vendor/aos/aos.css" rel="stylesheet">
21     <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
22     <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
23     <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
24     <link href="assets/vendor/lightbox/css/lightbox.min.css" rel="stylesheet">
25     <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">
```

```
chonlasak@backend1-66543210008:/var/www/nginx/web2$ sudo nano /etc/nginx/nginx.conf
```

```
GNU nano 6.2                               /etc/nginx/nginx.conf
gzip on;

# gzip_vary on;
# gzip_proxied any;
# gzip_comp_level 6;
# gzip_buffers 16 8k;
# gzip_http_version 1.1;
# gzip_types text/plain text/css application/json application/javascript text/xml application/xml application/xml+rss text/javascript;

##
## Virtual Host Configs
##

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

#mail {
#    # See sample authentication script at:
#    # http://wiki.nginx.org/ImapAuthenticateWithApachePhpScript
```

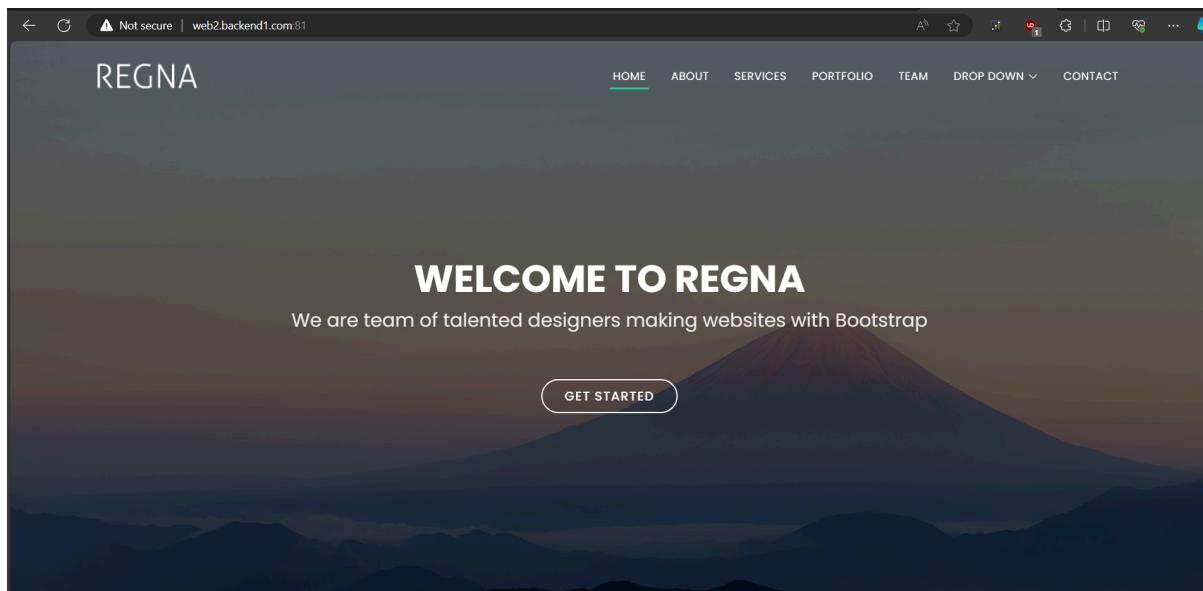
และทำงานที่ port 81 โดยเข้าถึงจากเครื่องภายนอกที่ url

web2.backend1.com:81

```
chonlasak@backend1-66543210008:/var/www/nginx/web2$ sudo nano /etc/nginx/sites-available/default
```

GNU nano 6.2 /etc/nginx/sites-available/default

```
chonlasak@backend1-66543210008:/var/www/nginx/web2$ sudo ufw allow 81  
Rule added  
Rule added (v6)
```



## STEP8 ติดตั้งที่ backend1

8.1 ติดตั้ง React template (template ที่1) ที่ได้มาจากการ step7 ทำงานบน Nginx ที่ /var/www/nginx/react1

```
chonlasak@backend1-66543210008:/var/www/apache/web1$ cd /var/www/nginx/
chonlasak@backend1-66543210008:/var/www/nginx$ sudo mkdir react1
chonlasak@backend1-66543210008:/var/www/nginx$ sudo chown -R $USER:$USER /var/www/nginx/react1

chonlasak@backend1-66543210008:/var/www/nginx$ cd react1/
chonlasak@backend1-66543210008:/var/www/nginx/react1$ npx create-react-app .

Creating a new React app in /var/www/nginx/react1.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

[Progress Bar]
```

Material Dashboard 2

Dashboard

Tables

Billing

RTL

Notifications

Profile

Sign In

Sign Up

UPGRADE TO PRO

Search here

Dashboard

Bookings 281

+55% than last week

Today's Users 2,300

+3% than last month

Revenue 34k

+1% than yesterday

Followers +91

Just updated

Website Views

Last Campaign Performance

campaign sent 2 days ago

Daily Sales

(+15%) increase in today sales.

updated 4 min ago

Completed Tasks

Last Campaign Performance

just updated

Orders overview

20 done this month

และทำงานที่ port 3010 โดยเข้าถึงจากเครื่องภายนอกที่ url  
react1.backend1.com

The screenshot shows a code editor interface with two panes. The left pane, titled 'EXPLORER', displays a file tree for a project named 'react1'. The right pane, titled 'package.json', shows the contents of the package.json file.

```
nginx > react1 > package.json > {} scripts
  "chart.js": "4.3.0",
  "chroma-js": "2.4.2",
  "prop-types": "15.8.1",
  "react": "18.2.0",
  "react-chartjs-2": "5.2.0",
  "react-dom": "18.2.0",
  "react-github-btn": "1.4.0",
  "react-router-dom": "^6.11.0",
  "react-scripts": "5.0.1",
  "react-table": "7.8.0",
  "stylis": "4.1.4",
  "stylis-plugin-rtl": "2.1.1",
  "yup": "1.1.1"
},
▷ Debug
"scripts": [
  "start": "GENERATE_SOURCEMAP=false PORT=3010 react-scripts start",
  "build": "GENERATE_SOURCEMAP=false react-scripts build",
  "test": "react-scripts test",
  "eject": "react-scripts eject",
  "install:clean": "rm -rf node_modules/ && rm -rf package-lock.json && "
],
"eslintConfig": {
  "extends": [
    "react-app",
    "react-app/jest"
  ]
},
```

The screenshot shows a terminal window with a green header bar. The command 'nano 6.2' is visible at the top. The terminal content is a server block configuration for Nginx:

```
GNU nano 6.2                                react1 *
server {
  listen 80;
  listen [::]:80;
  server_name react1.backend1.com;

  location / {
    proxy_pass http://192.168.56.104:3010; # !!! - 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;
  }
}
```

```
chonlasak@backend1-66543210008:/var/www/nginx/react1$ sudo nano /etc/nginx/sites-available/default
default          my-react-app    nodelogin      ubuntu-next-app weblogin
chonlasak@backend1-66543210008:/var/www/nginx/react1$ cd /etc/nginx/sites-available/
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo cp weblogin react1
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo nano react1
chonlasak@backend1-66543210008:/etc/nginx/sites-available$
```

The screenshot shows the Windows Taskbar at the bottom with icons for File Explorer, Task View, Start, and others. Above it is a window titled 'hosts' in Notepad++. The file contains the following content:

```
4
5       st names. Each
6       address should
7       bonding host name.
8       by at least one
9
10
11       i on individual
12       symbol.
13
14
15
16       e server
17       ent host
18
19       f.
20
21
22
23       xt-app.se-rmutl.net
24       rmutl.net web2.backend1.com web1.backend1.com react1.backend1.com react2.backend1.com
```

```
Normal file length : 1,073  lines : 24           Ln : 24  Col : 143  Pos : 1,074           Windows (CR LF)  UTF-8           INS
```

```
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo ufw allow 3010
Rule added
Rule added (v6)
```

The screenshot shows a web browser window with the URL 'react1.backend1.com/dashboard'. The page displays a Material Dashboard 2 interface. On the left is a sidebar with navigation links: Dashboard, Tables, Billing, RTL, Notifications, Profile, Sign In, and Sign Up. A blue button at the bottom of the sidebar says 'UPGRADE TO PRO'. The main area features several cards with metrics and charts:

- Bookings**: 281 (↑55% than last week)
- Today's Users**: 2,300 (↑3% than last month)
- Revenue**: 34k (↑1% than yesterday)
- Followers**: +91 (Just updated)
- Website Views**: Last Campaign Performance (chart showing daily views from Monday to Sunday)
- Daily Sales**: (↑15%) increase in today sales. (chart showing monthly sales from April to December)
- Completed Tasks**: Last Campaign Performance (chart showing monthly task completion from April to December)
- Projects**: 30 done this month
- Orders overview**: 100+ this month

## 8.2 ติดตั้ง React template (template ที่2) ที่ได้มาจากการ step7 ทำงานบน Nginx ที่ /var/www/nginx/react2

```
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ cd /var/www/nginx/
chonlasak@backend1-66543210008:/var/www/nginx$ mkdir react2
chonlasak@backend1-66543210008:/var/www/nginx$ sudo chown -R $USER:$USER /var/www/nginx/react2
/
```

```
chonlasak@backend1-66543210008:/var/www/nginx$ cd react2
chonlasak@backend1-66543210008:/var/www/nginx/react2$ npx create-react-app .

Creating a new React app in /var/www/nginx/react2.
```

```
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
```

```
( [REDACTED] ) :: idealTree:react2: sill idealTree buildDeps
```

```
chonlasak@backend1-66543210008:/var/www/nginx/react2$ npm install next

added 120 packages, removed 1252 packages, changed 74 packages, and audited 422 packages in 28s

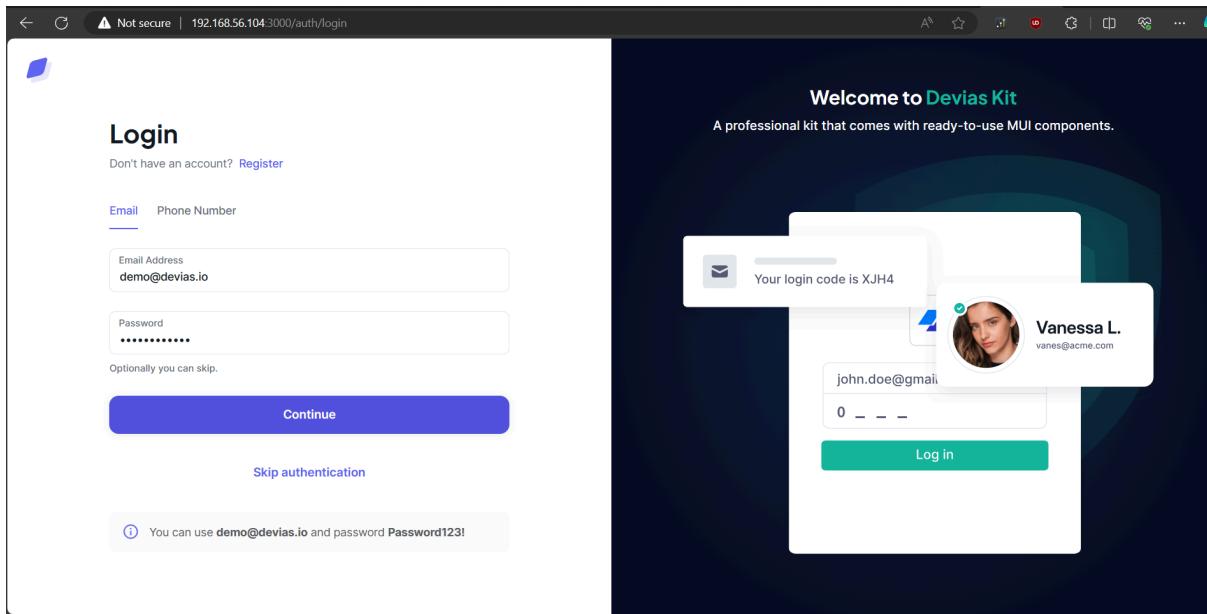
130 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
chonlasak@backend1-66543210008:/var/www/nginx/react2$
```

```
1  {
2    "name": "material-kit-react",
3    "version": "3.0.0",
4    "author": "DeVias",
5    "licence": "MIT",
6    "homepage": "https://devias.io",
7    "private": false,
8    "scripts": {
9      "dev": "next",
10     "build": "next build",
11     "start": "next start",
12     "export": "next export",
13     "lint": "next lint",
14     "lint-fix": "next lint --fix"
15   },
16   "dependencies": {
17     "@emotion/cache": "11.11.0",
18     "@emotion/react": "11.11.1",
19     "@emotion/server": "11.11.0",
20     "@emotion/styled": "11.11.0",
21     "@heroicons/react": "2.0.18",
22     "@mui/lab": "5.0.0-alpha.155",
23     "@mui/material": "5.14.20",
24     "@mui/system": "5.14.20",
25     "@mui/x-date-pickers": "6.18.4",
26     "apexcharts": "3.44.2",
27     "date-fns": "2.30.0",
28     "formik": "2.4.5",
29     "next": "^14.0.4",
30     "nprogress": "0.2.0".
  }
```



และทำงานที่ port 3011 โดยเข้าลึกลิ้งจากเครื่องภายนอกที่ url  
react2.backend1.com

The screenshot shows a code editor interface with the 'package.json' file open. The file content is as follows:

```

{
  "name": "material-kit-react",
  "version": "3.0.0",
  "author": "Devias",
  "licence": "MIT",
  "homepage": "https://devias.io",
  "private": false,
  "scripts": {
    "dev": "next -p 3011",
    "build": "next build",
    "start": "next start",
    "export": "next export",
    "lint": "next lint",
    "lint-fix": "next lint --fix"
  },
  "dependencies": {
    "@emotion/cache": "11.11.0",
    "@emotion/react": "11.11.1",
    "@emotion/server": "11.11.0",
    "@emotion/styled": "11.11.0",
    "@heroicons/react": "2.0.18",
    "@mui/lab": "5.0.0-alpha.155",
    "@mui/material": "5.14.20",
    "@mui/system": "5.14.20",
    "@mui/x-date-pickers": "6.18.4",
    "apexcharts": "3.44.2",
    "date-fns": "2.30.0",
    "formik": "2.4.5",
    "next": "^14.0.4",
    "nprogress": "0.2.0"
  }
}

```

```

chonlasak@backend1-66543210008:/var/www/nginx/react2$ cd /etc/nginx/sites-available/
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ cp react1 react2
cp: cannot create regular file 'react2': Permission denied
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo cp react1 react2
[sudo] password for chonlasak:
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo nano react2

```

```
GNU nano 6.2                                react2 *
server {
    listen 80;
    listen [::]:80;
    server_name react2.backend1.com;

    location / {
        proxy_pass http://192.168.56.104:3011; # !!! - 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;
    }
}
```

```
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo nano react2
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo ufw allow 3011
Rule added
Rule added (v6)
```

The image displays a split-screen view of a web browser. On the left side, a 'Login' form is visible for the URL `react2.backend1.com/auth/login`. The form has fields for 'Email' (containing `demo@devias.io`) and 'Password' (containing masked text). Below the form, there's a note: 'Optional you can skip.' and a 'Continue' button. At the bottom, there's a link: 'Skip authentication'. On the right side, a modal window titled 'Welcome to Devias Kit' is open, which states 'A professional kit that comes with ready-to-use MUI components.' It features a user profile for 'Vanessa L.' with the email `vanelles@acme.com`, a placeholder email `john.doe@gmail`, and a 'Log in' button.

## STEP9 ติดตั้งที่ backend2 เปลี่ยน-port = 4040 ที่ backend

```

EXPLORER          ...
JS index.js > ... JS package-lock.json
JS index.js > ...
72
73     db.execute(
74         "INSERT INTO users (username, password) VALUES (?,?)",
75         [username, password],
76         (err, result) => {
77             if (err) {
78                 res.send({ err: err });
79             }
80             res.send(result);
81         }
82     );
83
84 );
85 });
86
87
88 app.listen(4040, () => {
89     console.log("running server");
90 });
91

```

API URL: <http://api.backend2.com:4040>

```

devuser@backend2-66543210008:~$ cd /etc/nginx/sites-available/
devuser@backend2-66543210008:/etc/nginx/sites-available$ ls
backend  default
devuser@backend2-66543210008:/etc/nginx/sites-available$ sudo cp backend backend2

```

```

GNU nano 6.2                                     backend2 *
server {
    listen 80;
    server_name api.backend2.com ; # !!! - change to your domain name
location / {
    proxy_pass http://127.0.0.1:4040; # !!! - 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;
}
}

```

```

admin — pico - sudo — 80x24
File: /etc/hosts
UW PICO 5.09

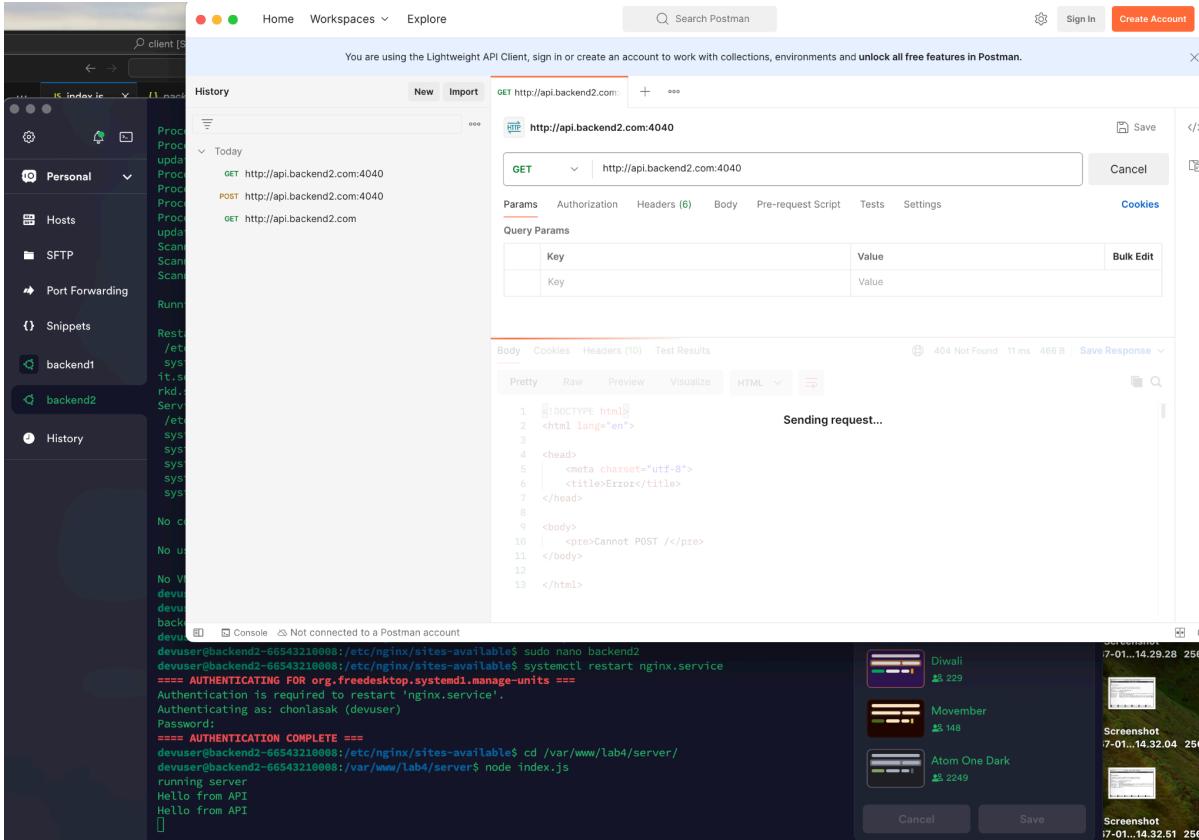
## 
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1      localhost engse203.lab1
255.255.255.255 broadcasthost
::1            localhost
10.211.55.13   midterm-engse202-008.com react1.midterm-engse202-008.com react2$ 
10.211.55.11   api.midterm-engse202-008.com api.backend2.com
10.211.55.7    myapp.se-rmutil.net expressjs-example.se-rmutil.net my-react-app.$

^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

```

## STEP10 ติดตั้งที่ backend2

ทดสอบเรียกใช้งาน API ใน Step9 โดยใช้ Postman ทั้ง GET และ POST



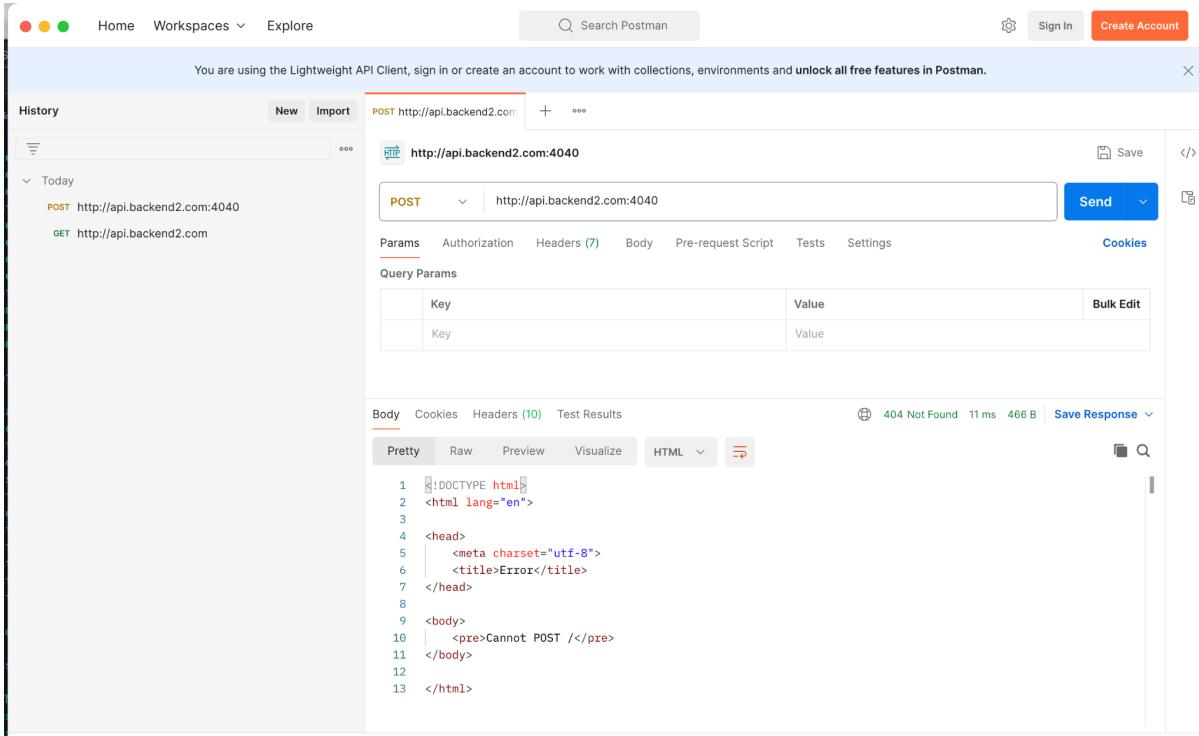
The screenshot shows the Postman interface with a GET request to `http://api.backend2.com:4040`. The response body contains the following HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 
4 <head>
5   <meta charset="utf-8">
6   <title>Error</title>
7 </head>
8 
9 <body>
10  <pre>Cannot POST /</pre>
11 </body>
12 
13 </html>
```

Console output shows the user running commands to restart the nginx service and executing the `index.js` file.

```
devuser@backend2:~$ sudo nano backend2
devuser@backend2:~$ systemctl restart nginx.service
==== AUTHENTICATING FOR org.freedesktop.systemd.manage-units ====
Authentication is required to restart 'nginx.service'.
Authenticating as: chonlasak (devuser)
Password:
==== AUTHENTICATION COMPLETE ====
devuser@backend2:~$ cd /var/www/lab4/server/
devuser@backend2:~$ node index.js
running server
Hello From API
Hello From API
```

The screenshot also shows a sidebar with various desktop environments and a preview of a screenshot titled "Screenshot i7-01..14.32.04 2567".

The screenshot shows the Postman interface with a POST request to `http://api.backend2.com:4040`. The response body contains the same HTML error page as the GET request.

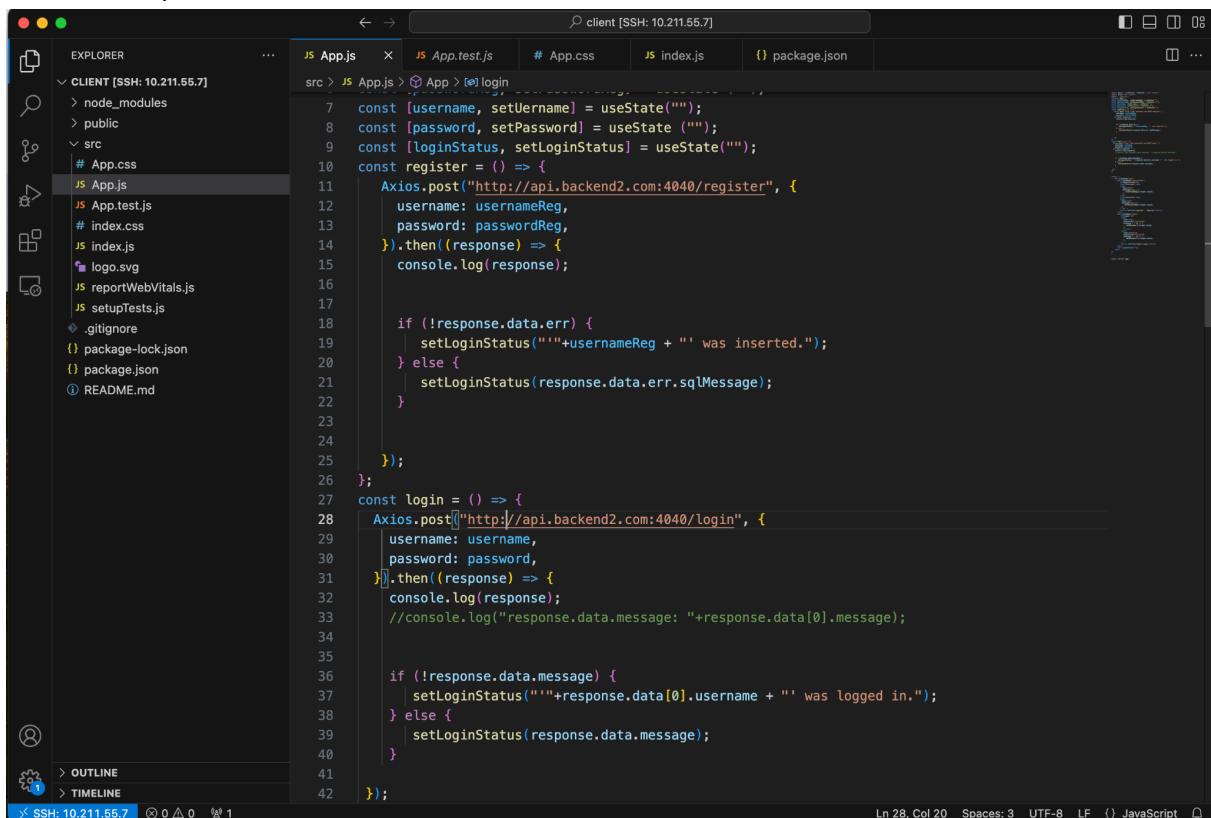
```
1 <!DOCTYPE html>
2 <html lang="en">
3 
4 <head>
5   <meta charset="utf-8">
6   <title>Error</title>
7 </head>
8 
9 <body>
10  <pre>Cannot POST /</pre>
11 </body>
12 
13 </html>
```

Console output is identical to the previous screenshot.

## STEP11 ติดตั้งที่ backend1

ติดตั้งทำงานบน Nginx ที่ /var/www/nginx/login

และทำงานที่ port 3012 โดยเข้าถึงจากเครื่องภายนอกที่ url

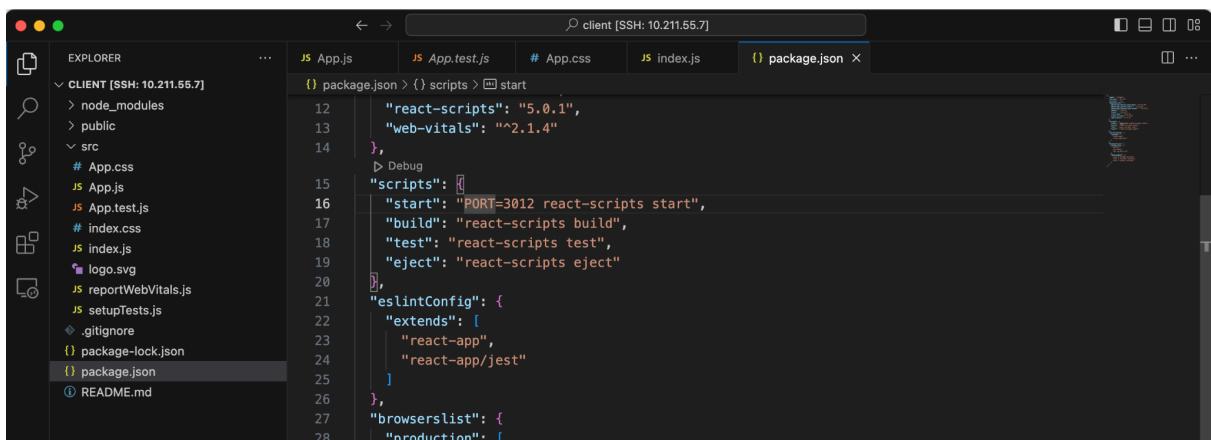


```
const [username, setUsername] = useState("");
const [password, setPassword] = useState("");
const [loginStatus, setLoginStatus] = useState("");
const register = () => {
  Axios.post("http://api.backend2.com:4040/register", {
    username: usernameReg,
    password: passwordReg,
  }).then((response) => {
    console.log(response);

    if (!response.data.err) {
      setLoginStatus(usernameReg + " was inserted.");
    } else {
      setLoginStatus(response.data.err.sqlMessage);
    }
  });
};

const login = () => {
  Axios.post("http://api.backend2.com:4040/login", {
    username: username,
    password: password,
  }).then((response) => {
    console.log(response);
    //console.log("response.data.message: "+response.data[0].message);

    if (!response.data.message) {
      setLoginStatus(response.data[0].username + " was logged in.");
    } else {
      setLoginStatus(response.data.message);
    }
  });
};
```



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

```
chonlasak@backend1-66543210008:~$ sudo ufw allow 3012
```

```
Rule added
```

```
Rule added (v6)
```

```
chonlasak@backend1-66543210008:~$
```

API URL: <http://login.backend1.com>

```
chonlasak@backend1-66543210008:~$ cd /etc/nginx/sites-available/
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ ls
api default expressjs-example myapp next react react1 react2 web2 weblogi
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ cp weblogi webbackend2
cp: cannot create regular file 'webbackend2': Permission denied
chonlasak@backend1-66543210008:/etc/nginx/sites-available$ sudo cp weblogi webbackend2
chonlasak@backend1-66543210008:/etc/nginx/sites-available$
```

```
GNU nano 6.2                                     webbackend2 *
server {
    listen 80;
    listen [::]:80;
    server_name login.backend1.com;

    location / {
        proxy_pass http://10.211.55.7:3012; # !!! - 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;
    }
}
```

```
admin — pico - sudo — 80x24
UW PICO 5.09          File: /etc/hosts           Modified

##
# 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
10.211.55.13    midterm-engse202-008.com react1.midterm-engse202-008.com react2$ 
10.211.55.11    api.midterm-engse202-008.com api.backend2.com
10.211.55.7     myapp.se-rmutl.net expressjs-example.se-rmutl.net my-react-app.$
10.211.55.7     login.backend1.com

Save modified buffer (ANSWERING "No" WILL DESTROY CHANGES) ? Y
^C Cancel      N No
```

**test**

The screenshot shows a web browser window with the following details:

- Address Bar:** Not Secure login.backend1.com
- Registration Section:** Contains fields for "Username" and "password", and a "Register" button.
- Login Section:** Contains fields for "test" and "....", and a "Login" button.
- Message:** A success message "'test' was logged in." is displayed below the login form.

'test' was logged in.