

Supawit kaennak 66543210031-1

LAB6 engse203

1.สร้าง responsetory ทั้ง back-end และ front-end ใน git hub

The screenshot shows two GitHub repository cards. The first card is for 'back-end' (Public) created for the midterm exam, updated 1 minute ago. The second card is for 'front-end' (Public) created for the midterm exam, updated 2 minutes ago. Both cards include a 'Star' button.

**back-end** Public  
for back-end of midterm exam  
Updated 1 minute ago

**front-end** Public  
for front-and code of midterm exam  
Updated 2 minutes ago

2.สร้าง directory first\_development ใน engse203

```
[admin@admin-iMac-2 ENGSE203 % mkdir first_development
```

3.cd เข้า first\_development และ cd เข้า my-app ของตนเอง

```
[admin@admin-iMac-2 first_development % cd my-app
```

4.ใช้ git init สร้าง responstory ใหม่

```
[admin@admin-iMac-2 my-app % git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /Users/admin/ENGSE203/first_development/my-app/.git/
```

5.ใช้ git add . เพิ่มไฟล์งานเข้า response

```
[admin@admin-iMac-2 my-app % git add .
```

Supawit kaennak 66543210031-1

## 6.ใช้ git status เช็คไฟล์

```
[admin@admins-iMac-2 my-app % git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
  new file: .gitignore
  new file: README.md
  new file: package.json
  new file: public/favicon.ico
  new file: public/images/car.jpg
  new file: public/index.html
  new file: public/logo192.png
  new file: public/logo512.png
  new file: public/manifest.json
  new file: public/robots.txt
  new file: src/App backup.js
  new file: src/App.css
  new file: src/App.js
  new file: src/App.test.js
  new file: src/components/AppError.js
  new file: src/components/CreateMovie.js
  new file: src/components/CreateUser.js
  new file: src/components/DisplayBoard.js
  new file: src/components/Header.js
  new file: src/components/Movies.js
  new file: src/components/SearchPage.js
  new file: src/components/Users.js
  new file: src/index.css
  new file: src/index.js
  new file: src/logo.svg
  new file: src/serviceWorker.js
  new file: src/services/MovieService.js
  new file: src/services/UserService.js
  new file: src/setupTests.js
```

## 7.ทำการ git commit ให้ทุกไฟล์

```
[admin@admins-iMac-2 my-app % git commit -m "init my-app"
[master (root-commit) 5ee2cb] init my-app
29 files changed, 992 insertions(+)
create mode 100644 .gitignore
create mode 100644 README.md
create mode 100644 package.json
create mode 100644 public/favicon.ico
create mode 100644 public/images/car.jpg
create mode 100644 public/index.html
create mode 100644 public/logo192.png
create mode 100644 public/logo512.png
create mode 100644 public/manifest.json
create mode 100644 public/robots.txt
create mode 100644 src/App backup.js
create mode 100644 src/App.css
create mode 100644 src/App.js
create mode 100644 src/App.test.js
create mode 100644 src/components/AppError.js
create mode 100644 src/components/CreateMovie.js
create mode 100644 src/components/CreateUser.js
create mode 100644 src/components/DisplayBoard.js
create mode 100644 src/components/Header.js
create mode 100644 src/components/Movies.js
create mode 100644 src/components/SearchPage.js
create mode 100644 src/components/Users.js
create mode 100644 src/index.css
create mode 100644 src/index.js
create mode 100644 src/logo.svg
create mode 100644 src/serviceWorker.js
create mode 100644 src/services/MovieService.js
create mode 100644 src/services/UserService.js
create mode 100644 src/setupTests.js
[admin@admins-iMac-2 my-app % git branch -M main
[admin@admins-iMac-2 my-app % git remote add origin https://github.com/SupawitKaennak66/front-end.git
[admin@admins-iMac-2 my-app % git push -u origin main
Enumerating objects: 36, done.
Counting objects: 100% (36/36), done.
Delta compression using up to 8 threads
Compressing objects: 100% (35/35), done.
Writing objects: 100% (36/36), 1.69 MiB | 2.50 MiB/s, done.
Total 36 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/SupawitKaennak66/front-end.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Supawit kaennak 66543210031-1

## 8. เช็คในเว็บ github

The screenshot shows a GitHub repository named 'front-end' owned by 'SupawitKaennak66'. The repository has 1 branch and 0 tags. A recent commit from 'See2bcb' 15 minutes ago contains 1 commit. The commit details show the creation of files: 'public', 'src', '.gitignore', 'README.md', and 'package.json', all initialized with 'my-app'. The commit was made 15 minutes ago.

## 9. เข้า directory api

```
admin@admin-iMac-2 first_development % cd api
```

## 10. ทำการ git init ใหม่

```
admin@admin-iMac-2 api % git init
[hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /Users/admin/ENGSE203/first_development/api/.git/
```

## 11. จากนั้น git add . ไฟล์งานใหม่

```
-----, -----, -----, -----
admin@admin-iMac-2 api % git add .
```

Supawit kaennak 66543210031-1

## 12. เช็ค status ไฟล์งาน

```
[admin@admins-iMac-2 api % git status
[On branch master

No commits yet

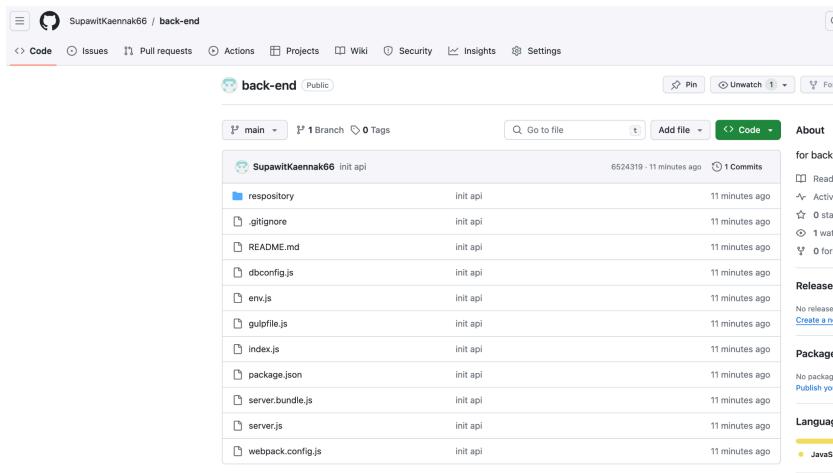
Changes to be committed:
(use "git rm --cached <file>..." to unstage)
    new file:   .gitignore
    new file:   README.md
    new file:   dbconfig.js
    new file:   env.js
    new file:   gulpfile.js
    new file:   index.js
    new file:   package.json
    new file:   respository/movie.js
    new file:   server.bundle.js
    new file:   server.js
    new file:   webpack.config.js
```

## 11. ทำการ commit ให้กับไฟล์ที่ add เข้ามาใหม่

```
admin@admins-iMac-2 api % git commit -m "init api"
[master (root-commit) 6524319] init api
11 files changed, 827 insertions(+)
create mode 100644 .gitignore
create mode 100644 README.md
create mode 100644 dbconfig.js
create mode 100644 env.js
create mode 100644 gulpfile.js
create mode 100644 index.js
create mode 100644 package.json
create mode 100644 respository/movie.js
create mode 100644 server.bundle.js
create mode 100644 server.js
create mode 100644 webpack.config.js
admin@admins-iMac-2 api % git branch -M main
[admin@admins-iMac-2 api % git remote add origin https://github.com/SupawitKaennak66/back-end.git
[admin@admins-iMac-2 api % git push -u origin main
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 8 threads
Compressing objects: 100% (13/13), done.
Writing objects: 100% (14/14), 231.20 KiB | 11.56 MiB/s, done.
Total 14 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/SupawitKaennak66/back-end.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Supawit kaennak 66543210031-1

## 12. เช็คไฟล์บนเว็บ github



## ส่วน back-end

13. ทำการ git เช็ค version จากนั้น git config เพื่อเพิ่ม name ของ github และ git config เพื่อเพิ่ม email ที่ใช้ จากนั้นให้ git config --list เพื่อเช็คว่าเรา config อะไรไปแล้วบ้าง

```
supawit@backend2-66543210031:~$ git --version
git version 2.34.1
supawit@backend2-66543210031:~$ git config --global user.name SupawitKaennak66
supawit@backend2-66543210031:~$ git config --global user.email supawit_ka661@live.rmutl.ac.th
supawit@backend2-66543210031:~$ git config --list
user.name=SupawitKaennak66
user.email=supawit_ka661@live.rmutl.ac.th
```

## 14. ใช้ sudo ufw status เช็ค port

```
supawit@backend2-66543210031:~$ sudo ufw status
[sudo] password for supawit:
Status: active

To                         Action      From
--                         --          --
Nginx Full                 ALLOW       Anywhere
4000                       ALLOW       Anywhere
3004                       ALLOW       Anywhere
OpenSSH                     ALLOW       Anywhere
4040                       ALLOW       Anywhere
Nginx Full (v6)            ALLOW       Anywhere (v6)
4000 (v6)                  ALLOW       Anywhere (v6)
3004 (v6)                  ALLOW       Anywhere (v6)
OpenSSH (v6)                ALLOW       Anywhere (v6)
4040 (v6)                  ALLOW       Anywhere (v6)
```

## 15. ใช้ cd /var/www เพื่อเข้า directory www

```
supawit@backend2-66543210031:~$ cd /var/www
```

Supawit kaennak 66543210031-1

16.ทำการ git clone project มาไว้ใน directory www

```
supawit@backend2-66543210031:/var/www$ sudo git clone https://github.com/SupawitKaennak66/back-end.git
Cloning into 'back-end'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 14 (delta 0), reused 14 (delta 0), pack-reused 0
Receiving objects: 100% (14/14), 231.20 KiB | 1.24 MiB/s, done.
```

17.ทำการ cd เข้าไปใน directory ของ project ที่ทำการ clone มา คือ back-end

```
supawit@backend2-66543210031:/var/www$ cd back-end/
```

18.ใช้ ls เพื่อเช็ค ข้างใน directory

```
supawit@backend2-66543210031:/var/www/back-end$ ls
dbconfig.js  gulpfile.js  package.json  repository      server.js
env.js        index.js    README.md     server.bundle.js webpack.config.js
```

19.ใช้ cd เพื่อเข้า sites-available

```
supawit@backend2-66543210031:/etc/nginx$ cd sites-available/
```

20.ทำการ cp ไฟล์ default หรือ งานอื่น ให้เป็น apimoviebackend และ config ตามภาพ

```
GNU nano 6.2                                         apimoviebackend
server {
    listen 80 ;
    listen [::]:80 ;

    server_name api.servermutl.net;

    location / {
        proxy_pass http://127.0.0.1:4000;
        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;
    }
}
```

Supawit kaennak 66543210031-1

21. กับมาที่ path home และทำการ nano /etc/hosts

```
supawit@backend2-66543210031:~$ sudo nano /etc/hosts
```

22. ข้างในไฟล์ ให้ config ตามภาพ

```
GNU nano 6.2                                         /etc/hosts
127.0.0.1 localhost
127.0.1.1 backend031 api.se-rmutl.net

# The following lines are desirable for IPv6 capable hosts
::1      ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

23. ทำการ nano /etc/hosts ให้กับเครื่องคอมพิวเตอร์

```
admin@admins-iMac-2 ~ % sudo nano /etc/hosts
```

24. ข้างในไฟล์ hosts

```
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 expressjs-example.se-rmutl.net my-react-app.se-rmu
10.211.55.5 nodelogin.se-rmutl.net weblogin.se-rmutl.net
10.211.55.5 login.backend1.com
10.211.55.5 web1.backend1.com web2.backend1.com react1.backend1.com react2.backen
10.211.55.7 web1.midterm-engse202-031.com web2.midterm-engse202-031.com
10.211.55.7 react1.midterm-engse202-031.com react2.midterm-engse202-031.com
10.211.55.6 api.backend2.com
10.211.55.6 api.se-rmutl.net
```

Supawit kaennak 66543210031-1

25.cd เข้า /var/www/back-end จากนั้นให้ทำการ sudo npm install pm2 -g

```
supawit@backend2-66543210031:/var/www/back-end$ sudo npm install pm2 -g
[sudo] password for supawit:
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.

added 157 packages in 15s
```

26. พิมพ์ pm2 start “npm run prod” --name backend-api

27. ផលផែន

<b>id</b>	<b>name</b>	<b>mode</b>	<b>o</b>	<b>status</b>	<b>cpu</b>	<b>memory</b>
0	backend-api	fork	0	online	0%	36.9mb

28.ทำการ pm2 save จากนั้น pm2 startup เสร็จแล้ว copy คำสั่ง sudo eny path ที่รับมาแล้ววาง

```
supawit@backend2-66543210031:/var/www/back-end$ pm2 save
[PM2] Saving current process list...
[PM2] Successfully saved in /home/supawit/.pm2/dump.pm2
supawit@backend2-66543210031:/var/www/back-end$ pm2 startup
[PM2] Init System found: systemd
[PM2] To setup the Startup Script, copy/paste the following command:
sudo env PATH=$PATH:/usr/bin /usr/lib/node_modules/pm2/bin/pm2 startup systemd -u supawit --hp /home/supawit
supawit@backend2-66543210031:/var/www/back-end$ sudo env PATH=$PATH:/usr/bin /usr/lib/node_modules/pm2/bin/pm2
startup systemd -u supawit --hp /home/supawit
```

Supawit kaennak 66543210031-1

29.ใช้ postman เช็ค api.se-rmutil.net ว่า get ข้อมูลได้มั้ย

The screenshot shows the Postman application interface. At the top, it says "HTTP ENGSE203 / Back-end / hello (domain)". Below that is a search bar with "GET" selected and "api.se-rmutil.net" entered. To the right of the search bar are "Save", "Edit", and "Send" buttons. Underneath the search bar, there are tabs for "Params", "Authorization", "Headers (7)", "Body", "Pre-request Script", "Tests", and "Settings". The "Params" tab is currently active. On the right side, there is a "Cookies" section. Below the tabs is a table titled "Query Params" with columns for Key, Value, Description, and Bulk Edit. There is one row in the table with "Key" and "Value" columns filled.

The screenshot shows the "Test Results" section of Postman. It displays a single test result: "1 <h3> Welcome to API Back-end Ver. 1.0.0</h3>". Above this, there are tabs for "Body", "Cookies", "Headers (9)", and "Test Results", with "Test Results" being the active tab. To the right, there are buttons for "Save as example" and three dots. Below the test results, there are buttons for "Pretty", "Raw", "Preview", "Visualize", and "HTML".

30.ทดสอบเว็บ api.se-rmutil.net

The screenshot shows a web browser window with the URL "api.se-rmutil.net". The title bar says "Not Secure". The page content is "Welcome to API Back-end Ver. 1.0.0". The browser's address bar also shows other open tabs like Google, SupawitK, ENGSE20, etc.

Supawit kaennak 66543210031-1

31.ใช้ npm run build ใน directory my-app

```
● admin@admin-iMac-2 my-app % npm run build

> my-app@0.1.0 build
> react-scripts build

Creating an optimized production build...
Compiled with warnings.

./src/App.js
Line 17:10: 'user' is assigned a value but never used          no-unused-vars
Line 17:16: 'setUser' is assigned a value but never used        no-unused-vars
Line 18:10: 'users' is assigned a value but never used         no-unused-vars
Line 18:17: 'setUsers' is assigned a value but never used       no-unused-vars
Line 19:10: 'numberOfUsers' is assigned a value but never used no-unused-vars
Line 19:25: 'setNumberOfUsers' is assigned a value but never used no-unused-vars

./src/components/DisplayBoard.js
Line 5:11: 'headerStyle' is assigned a value but never used   no-unused-vars

Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.

File sizes after gzip:

39.4 KB  build/static/js/2.384f25b0.chunk.js
22.71 KB build/static/css/2.7f1403ef.chunk.css
2.09 KB   build/static/js/main.3eef745a.chunk.js
777 B    build/static/js/runtime-main.ed9d8f35.js
401 B    build/static/css/main.14ff7981.chunk.css
```

32.ใช้ sudo npm install -g serve ใน directory my-app

```
● admin@admin-iMac-2 my-app % sudo npm install -g serve
Password:

added 89 packages in 4s

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

33.กับมาที่ linux พิมพ์ mysql -u root -p และ สร้าง user เป็น dbuser จากนั้น grant all ให้สิทธิ์

```
mysql> CREATE USER 'dbuser'@'localhost' IDENTIFIED WITH mysql_native_password BY 'P@ssw0rd@2023';
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE USER 'dbuser'@'%' IDENTIFIED WITH mysql_native_password BY 'P@ssw0rd@2023';
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT ALL ON *.* TO 'dbuser'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> GRANT ALL ON *.* TO 'dbuser'@'%';
Query OK, 0 rows affected (0.00 sec)
```

Supawit kaennak 66543210031-1

34.ทำการสร้าง database moviedb

```
mysql> CREATE DATABASE moviedb;
Query OK, 1 row affected (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database      |
+-----+
| information_schema |
| loginsystem    |
| moviedb        |
| mysql          |
| performance_schema |
| sys            |
+-----+
6 rows in set (0.01 sec)
```

35.ใช้คำสั่ง use moviedb เพื่อใช้ database moviedb และสร้าง table movies

```
mysql> USE moviedb;
Database changed
mysql> SHOW TABLES;
Empty set (0.01 sec)

mysql> CREATE TABLE movies(title VARCHAR(50) NOT NULL,genre VARCHAR(30) NOT NULL,director VARCHAR(60) NOT NULL,
release_year INT NOT NULL,PRIMARY KEY(title));
Query OK, 0 rows affected (0.02 sec)

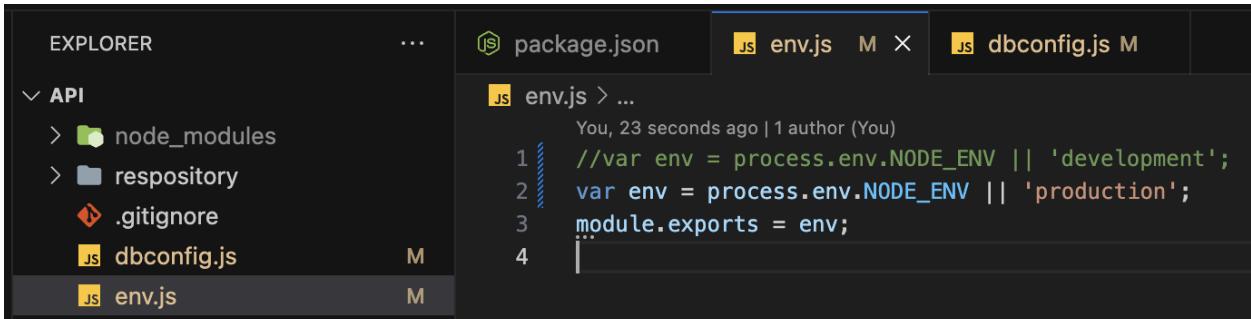
mysql> INSERT INTO movies VALUE ("Joker", "psychological thriller", "Todd Phillips", 2019);
Query OK, 1 row affected (0.02 sec)
```

36.ทำการ select ข้อมูลใน table ของ movies

```
mysql> select * from movies;
+-----+-----+-----+-----+
| title | genre           | director       | release_year |
+-----+-----+-----+-----+
| Joker | psychological thriller | Todd Phillips | 2019         |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Supawit kaennak 66543210031-1

### 37. ส่วนของ vscode back-end หน้า env



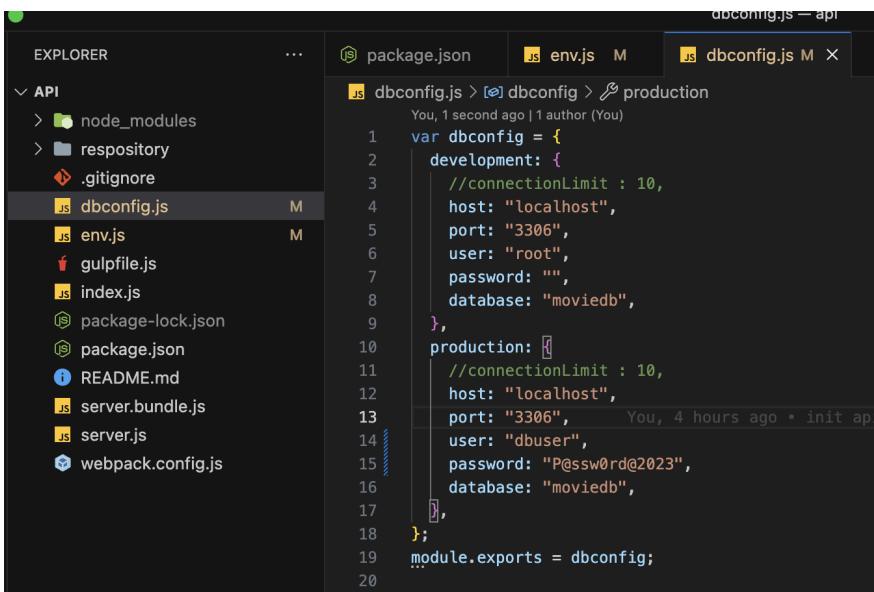
The screenshot shows the VS Code interface with the following details:

- EXPLORER** sidebar: API, node\_modules, repository, .gitignore, dbconfig.js (selected), env.js.
- package.json**: A file icon.
- env.js**: The active tab, showing the following code:

```
You, 23 seconds ago | 1 author (You)
1 //var env = process.env.NODE_ENV || 'development';
2 var env = process.env.NODE_ENV || 'production';
3 module.exports = env;
4
```
- dbconfig.js**: Another tab, showing the following code:

```
You, 1 second ago | 1 author (You)
1 var dbconfig = {
2   development: {
3     //connectionLimit : 10,
4     host: "localhost",
5     port: "3306",
6     user: "root",
7     password: "",
8     database: "moviedb",
9   },
10   production: [
11     //connectionLimit : 10,
12     host: "localhost",
13     port: "3306",
14     user: "dbuser",
15     password: "P@ssw0rd@2023",
16     database: "moviedb",
17   ],
18 };
19 module.exports = dbconfig;
20
```

### 38. หน้า dbconfig เพิ่มข้อมูลใน user database ใน production



The screenshot shows the VS Code interface with the following details:

- EXPLORER** sidebar: API, node\_modules, repository, .gitignore, dbconfig.js (selected), env.js, gulpfile.js, index.js, package-lock.json, package.json, README.md, server.bundle.js, server.js, webpack.config.js.
- package.json**: A file icon.
- env.js**: A tab, showing the following code:

```
You, 23 seconds ago | 1 author (You)
1 //var env = process.env.NODE_ENV || 'development';
2 var env = process.env.NODE_ENV || 'production';
3 module.exports = env;
```
- dbconfig.js**: The active tab, showing the following code:

```
You, 1 second ago | 1 author (You)
1 var dbconfig = {
2   development: {
3     //connectionLimit : 10,
4     host: "localhost",
5     port: "3306",
6     user: "root",
7     password: "",
8     database: "moviedb",
9   },
10   production: [
11     //connectionLimit : 10,
12     host: "localhost",
13     port: "3306",
14     user: "dbuser",
15     password: "P@ssw0rd@2023",
16     database: "moviedb",
17   ],
18 };
19 module.exports = dbconfig;
20
```

### 39. ทำการ git add . ไฟล์งาน และ git commit ให้ไฟล์ที่ add มาใหม่ จากนั้น git push ขึ้น github

```
● admin@admin-iMac-2 api % git add .
● admin@admin-iMac-2 api % git commit -m "about db"
[main 15aadb8] about db
 2 files changed, 4 insertions(+), 4 deletions(-)
● admin@admin-iMac-2 api % git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 411 bytes | 411.00 KiB/s, done.
Total 4 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/SupawitKaennak66/back-end.git
  58db019..15aadb8  main -> main
branch 'main' set up to track 'origin/main'.
```

Supawit kaennak 66543210031-1

40. กลับมาที่ linux ใน path /var/www/back-end จากนั้น git pull ไฟล์ที่แก้ไขไป

```
supawit@backend2-66543210031:/var/www/back-end$ git pull
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 4 (delta 3), reused 4 (delta 3), pack-reused 0
Unpacking objects: 100% (4/4), 391 bytes | 195.00 KiB/s, done.
From https://github.com/SupawitKaennak66/back-end
  58db019..15aadb8  main      -> origin/main
Updating 58db019..15aadb8
Fast-forward
 dbconfig.js | 4 ++--
 env.js       | 4 ++--
 2 files changed, 4 insertions(+), 4 deletions(-)
```

## ส่วน Front-end

41. ทำการ git เช็ค version จากนั้น git config name ชื่อของ github และ git config email ของ github เสร็จแล้ว git --list เพื่อเช็คว่า config อะไรไปแล้ว

```
supawit@backend1-66543210031:~$ git --version
git version 2.34.1
supawit@backend1-66543210031:~$ git config --global user.name SupawitKaennak66
supawit@backend1-66543210031:~$ git config --global user.email supawit_ka661@live.rmutl.ac.th
supawit@backend1-66543210031:~$ git list
git: 'list' is not a git command. See 'git --help'.

The most similar commands are
  bisect
  rev-list
supawit@backend1-66543210031:~$ git config --list
user.name=SupawitKaennak66
user.email=supawit_ka661@live.rmutl.ac.th
supawit@backend1-66543210031:~$
```

42. cd เข้า /var/www/front-end ดาวน์โหลด npm i

```
supawit@backend1-66543210031:/var/www/front-end$ npm i
```

43. ทำการ sudo cp myapp frontendmovie

```
supawit@backend1-66543210031:/etc/nginx/sites-available$ sudo cp myapp frontendmovie
```

44. ทำการ nano ไฟล์ frontendmovie

```
supawit@backend1-66543210031:/etc/nginx/sites-available$ sudo nano frontendmovie
```

Supawit kaennak 66543210031-1

#### 45. ข้างในไฟล์ frontendmovie แก้ไขตามภาพ

```
GNU nano 6.2                                     frontendmovie
# 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 lab6.se-rmutil.net;

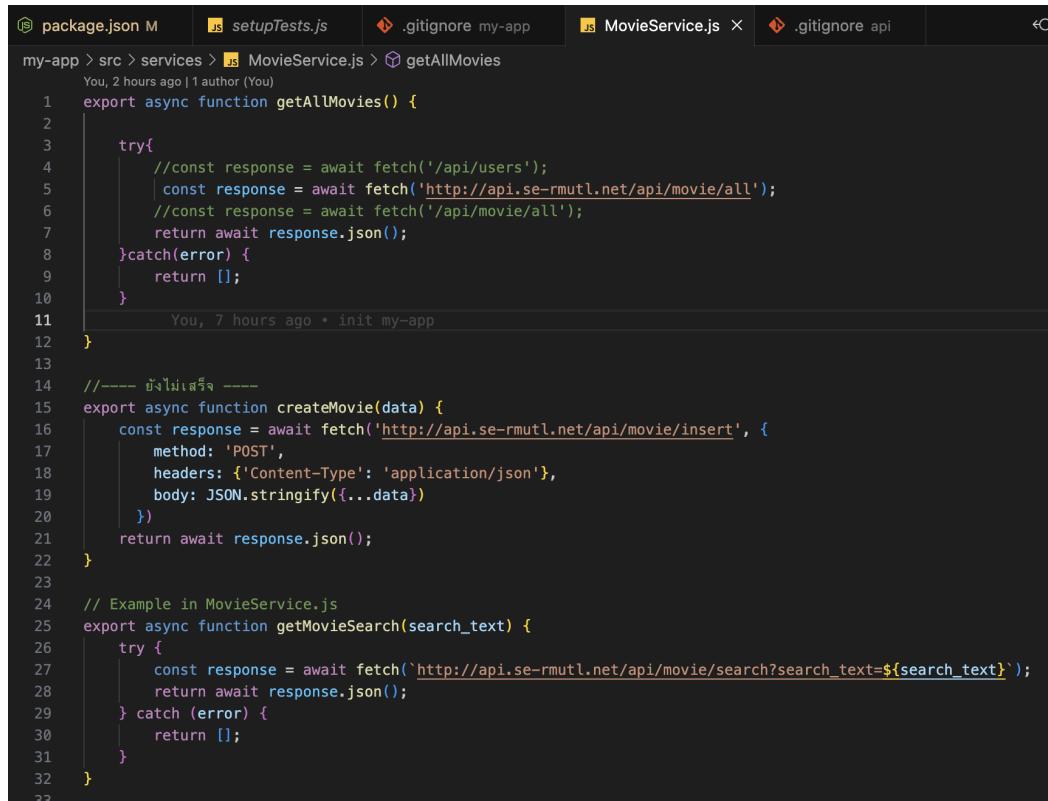
    location / {
        proxy_pass http://127.0.0.1:3001; # !!! - change to your app port
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
    }
}
```

#### 46. ส่วนของเครื่องคอม ทำการ nano /etc/hosts เพิ่ม ip และ doamin name

```
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-rmutil.net expressjs-example.se-rmutil.net my-react-app.se-rmutil.net ubuntu-next-app.se-rmu$  
10.211.55.5 nodelogin.se-rmutil.net weblogin.se-rmutil.net
10.211.55.5 login.backend1.com
10.211.55.5 lab6.se-rmutil.net
10.211.55.5 web1.backend1.com web2.backend1.com react1.backend1.com react2.backend1.com
10.211.55.7 web1.midterm-engse202-031.com web2.midterm-engse202-031.com
10.211.55.7 react1.midterm-engse202-031.com react2.midterm-engse202-031.com
10.211.55.6 api.backend2.com
10.211.55.6 api.se-rmutil.net
```

Supawit kaennak 66543210031-1

#### 47. ส่วนของ vscode movieservices ของ my-app



```
package.json M setupTests.js .gitignore my-app MovieService.js X .gitignore api
my-app > src > services > MovieService.js > getAllMovies
You, 2 hours ago | 1 author (You)
1 export async function getAllMovies() {
2
3     try{
4         //const response = await fetch('/api/users');
5         //const response = await fetch('http://api.sermutl.net/api/movie/all');
6         //const response = await fetch('/api/movie/all');
7         return await response.json();
8     }catch(error) {
9         return [];
10    }
11}
12
13
14 //---- ฟังก์ชันinsert ----
15 export async function createMovie(data) {
16     const response = await fetch('http://api.sermutl.net/api/movie	insert', {
17         method: 'POST',
18         headers: {'Content-Type': 'application/json'},
19         body: JSON.stringify({...data})
20     })
21     return await response.json();
22 }
23
24 // Example in MovieService.js
25 export async function getMovieSearch(search_text) {
26     try {
27         const response = await fetch(`http://api.sermutl.net/api/movie/search?search_text=${search_text}`);
28         return await response.json();
29     } catch (error) {
30         return [];
31     }
32 }
33
34
```

#### 48. กลับมาที่ linux ใน path /var/www/front-end พิมพ์ npm i pm2 -g

```
supawit@backend1-66543210031:/var/www/front-end$ sudo npm i 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.

added 1 package, removed 1 package, and changed 156 packages in 4s

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

Supawit kaennak 66543210031-1

49.ทำการ pm2 start serve ตามภาพ และ pm2 save

```
supawit@backend1-66543210031:/var/www/front-end$ pm2 start "serve -s -l 3001 build" --name front-end
[PM2] Starting /usr/bin/bash in fork_mode (1 instance)
[PM2] Done.
```

<b>id</b>	<b>name</b>	<b>mode</b>	<b>进程数</b>	<b>status</b>	<b>cpu</b>	<b>memory</b>
0	front-end	fork	0	online	0%	1.3mb

50.ทำการทดสอบเข้าหน้าเว็บ

