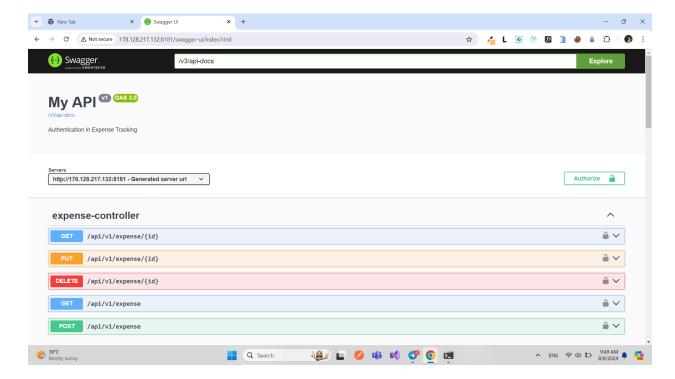
# Homework(deploy)

### Docker deploy spring boot

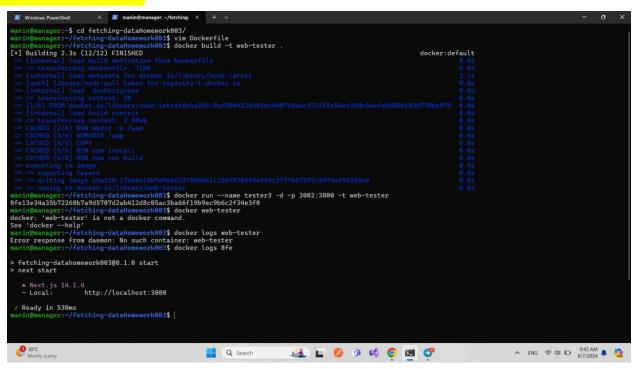
```
maningdockerengine:~$ git clone https://github.com/Manin1903/fetching-dataHomework003.git
Cloning into 'fetching-dataHomework003'...
remote: Enumerating objects: 65, done.
remote: Counting objects: 100% (65/65), done.
remote: Counting objects: 100% (45/45), done.
remote: Compressing objects: 100% (45/45), done.
remote: Total 65 (delta 15), reused 62 (delta 12), pack-reused 0
Receiving objects: 100% (65/65), 64.26 KiB | 6.43 MiB/s, done.
Resolving deltas: 100% (15/15), done.
maningdockerengine:~$ cd fetching-dataHomework003/
maningdockerengine:~{fetching-dataHomework003} sudo vim Dockerfile
maningdockerengine:~{fetching-dataHomework003} sat Dockerfile
# Base image for pulling the latest official Node.js image from Docker Hub
FROM node:latest
# Create directory name inside container '-p' flag ensure that directory is created if it doesn't already exist.
RUN mkdir -p /app
# Set working directory inside container
WORKDIR /app
# Copy current local directory to /app which current directory in container
COPY . .
# Install all dependencies in package.json
RUN npm install
# Used for applications that need to be compiled before run
RUN npm run build
# Expose the port on which your NextJS application will run (change as per your application)
EXPOSE 3000
```

#### Result:

Link of Spring Boot API:http://178.128.217.132:8181/swagger-ui/index.html

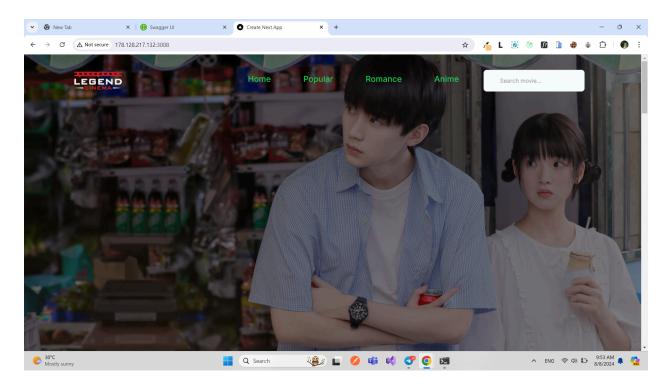


Docker deploy next-js



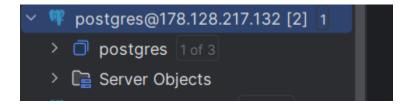
#### Result:

Link of Next-js:http://178.128.217.132:3009



## • Deploy postgres

manin@dockerengine:~\$ sudo docker run -d --name test-postgresdeployy -p 8888:5432 -e POSTGRES\_PASSWORD=123 postgres
51d46b1947adc25998aca2a10bbd95ffb71acaf0fc1e13e9a2d91f6bd1f87080
manin@dockerengine:~\$ |

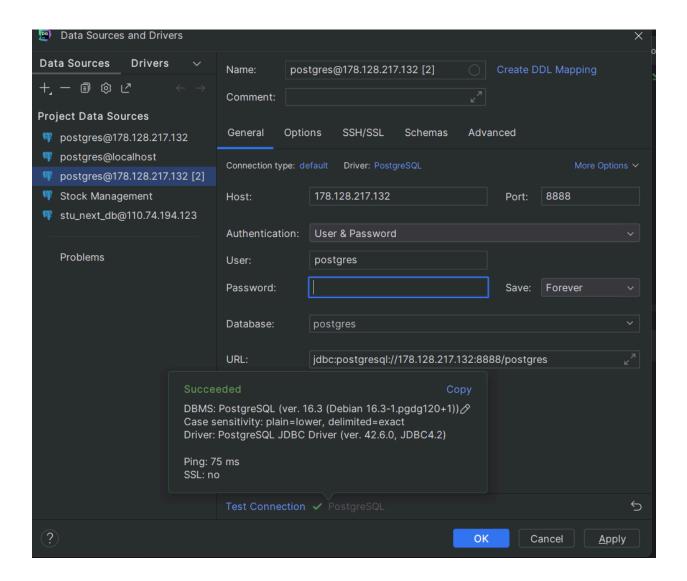


Host ip: 178.128.217.132

Port: 8888

User : postgres

Password: 123



## Config Domain for next-js

- First step install nginx [sudo apt install nginx]
- Check status active or not [sudo systemctl status anginx]
- After seen active we change directory to [cd /etc/nginx/sites-available]
- Create file for config[sudo vim manin.lol]
- o Insert this config to this file

```
jingnin@neathserver:/etc/nginx/sites-enabled$ cat manin
server {
    listen 80;
    server_name manin.lol www.manin.lol;
    location / {
        proxy_pass http://178.128.217.132:3008;
    }
}
```

- Write this command [sudo ln -s /etc/nginx/sites-available/manin.lol /etc/nginx/sites-enabled/]
- Than we use this command to start [ systemctl restart nginx ]

Result link: <a href="http://manin.lol/">http://manin.lol/</a>

- Config Domain for Spring Boot
  - Insert more config

```
server {
    listen 80;
    server_name spring.manin.lol www.manin.lol;
    location / {
        proxy_pass http://178.128.217.132:8181;
    }
}
```

- o Than run this command [systemctl restart nginx]
- Get result link here: <u>Swagger UI</u>
   (manin.lol)http://spring.manin.lol/swagger-ui/index.html
- Config https next-js
  - o First install certbot
    - sudo apt install certbot python3-certbot-nginx
  - Install ufw
    - sudo apt update && sudo apt install ufw

- o Enable ufw
  - sudo ufw enable
- Check ufw status
  - sudo ufw status
- o Add rules
  - sudo ufw allow 'Nginx Full'
  - sudo ufw delete allow 'Nginx HTTP' # do not allow to access http
  - sudo ufw allow 'OpenSSH'
- o Check ufw again
  - sudo ufw status
- o Obtaining an SSL Certificate
  - sudo certbot --nginx -d manin.lol -d <a href="http://manin.lol">http://manin.lol</a>
- Now is successful here is link: <a href="https://manin.lol/">https://manin.lol/</a>
- Config https spring boot
  - o Obtaining an SSL Certificate
    - sudo certbot --nginx -d spring.manin.lol
  - Now is successful here is link: <u>Swagger UI</u>
     (manin.lol)https://spring.manin.lol/swagger-ui/index.html