

포팅 메뉴얼

5팀 심플팀플

팀장 이정재

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- 프로젝트 기술 스택

Spring boot 2.7.1

Java 11

JPA

MySQL 8.0.30(ubuntu 20.04)

Jenkins

Nginx 1.18.0(ubuntu 20.04)

AWS EC2

React 18.0.0

React Native 0.69.3

Javascript

Typescript

Firebase (CLOUD STORE)

Firebase (realtime DB)

- 사용 툴

Postman

Jira

Webex

GitLab

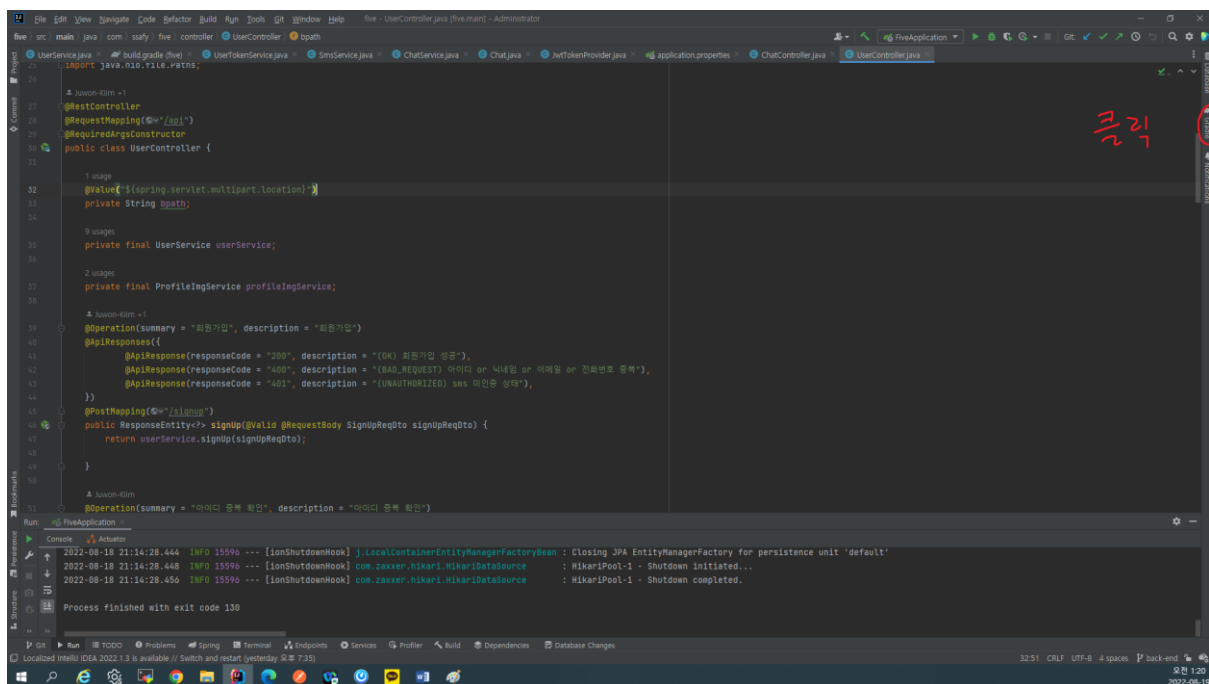
Notion

UXPin

- 백엔드 빌드 방법(IntelliJ 기준)

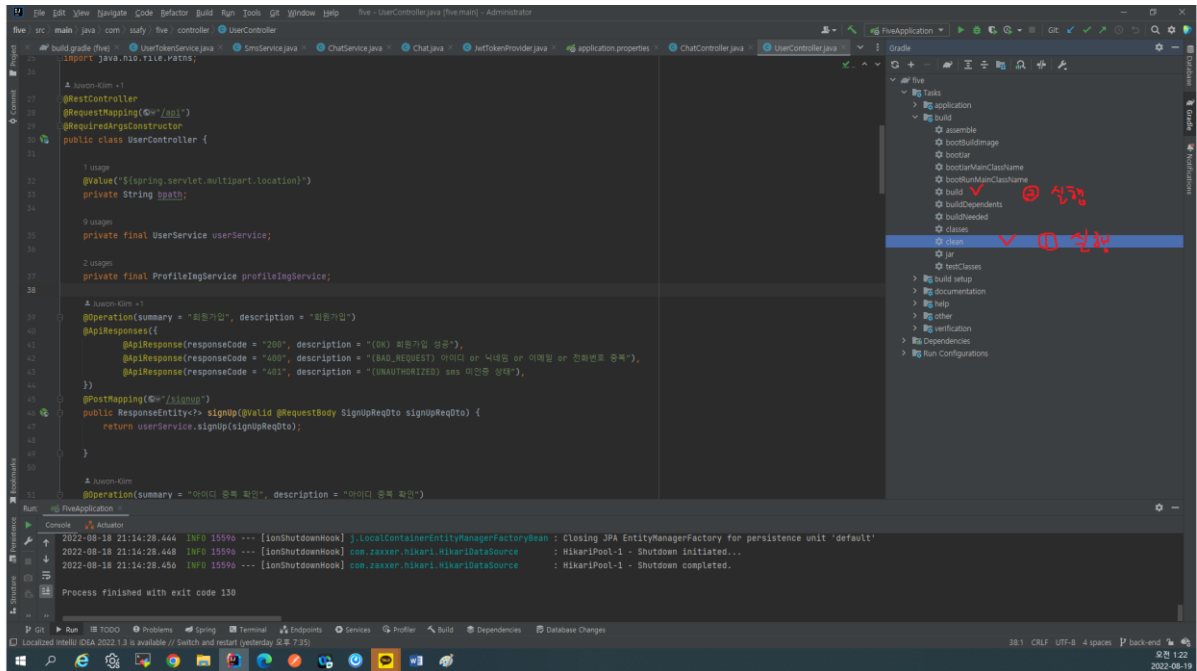
- GUI 버전

오른쪽에 있는 Gradle 클릭

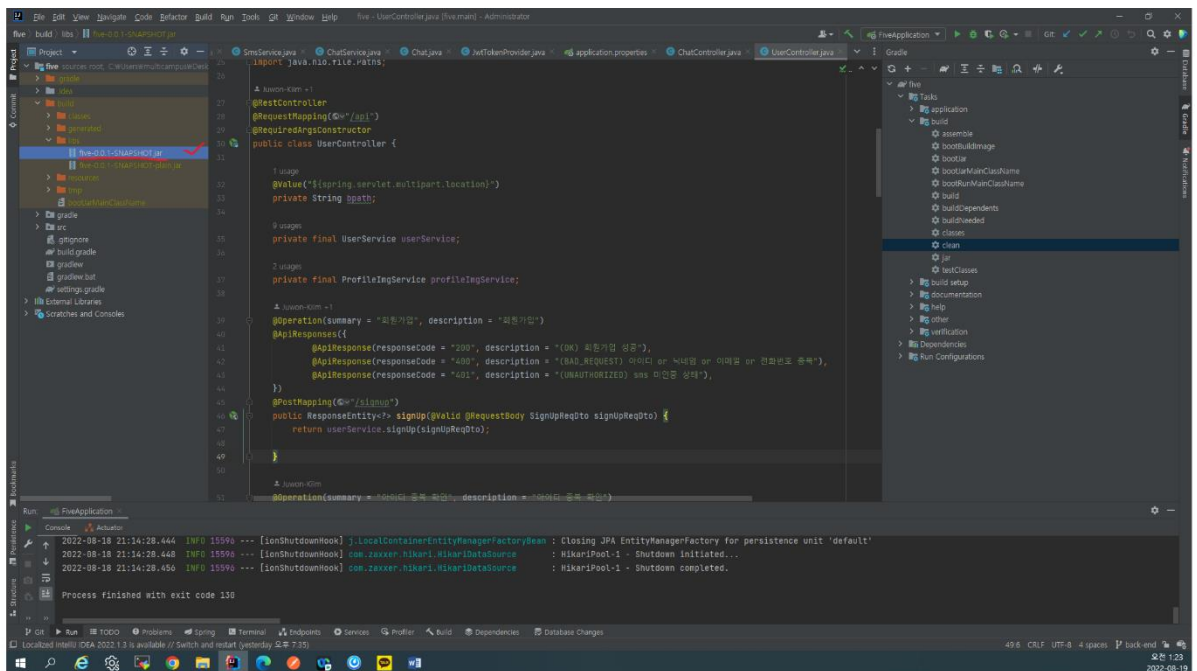


이미 존재하는 빌드 파일이 있다면 clean 실행

후에 build 실행

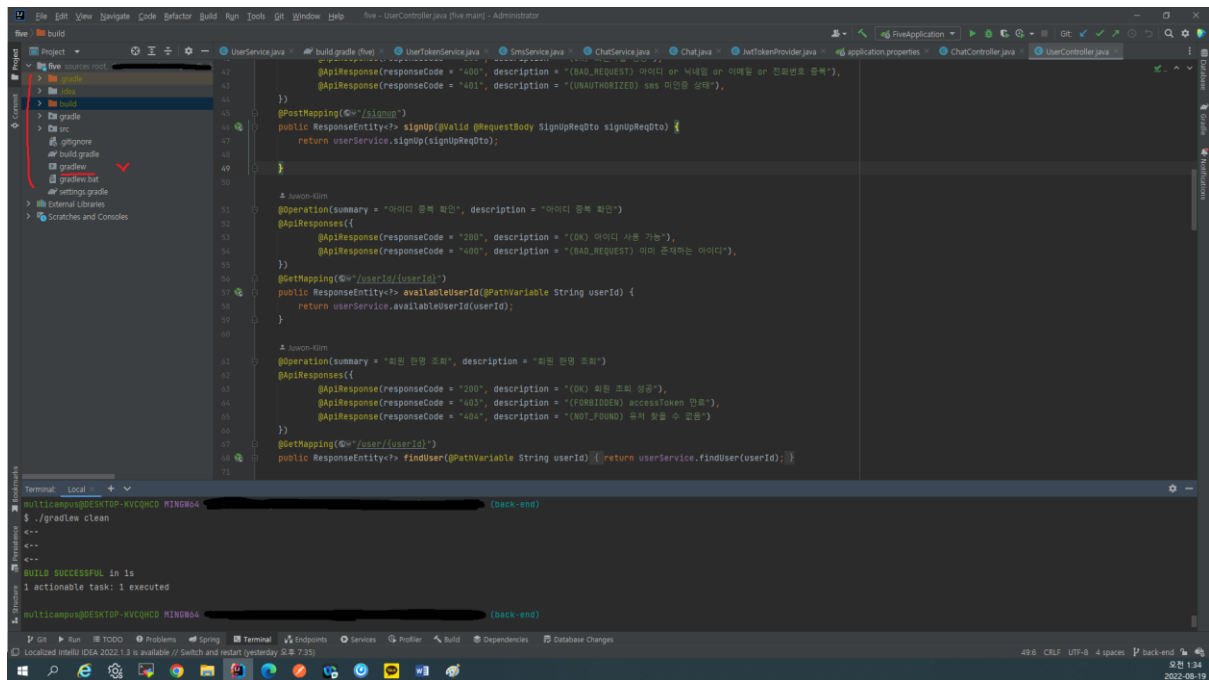


빌드가 실행이 되면 build 폴더가 생성이 되고 libs 폴더 안에 000.jar 빌드 파일이 생성이 된다.

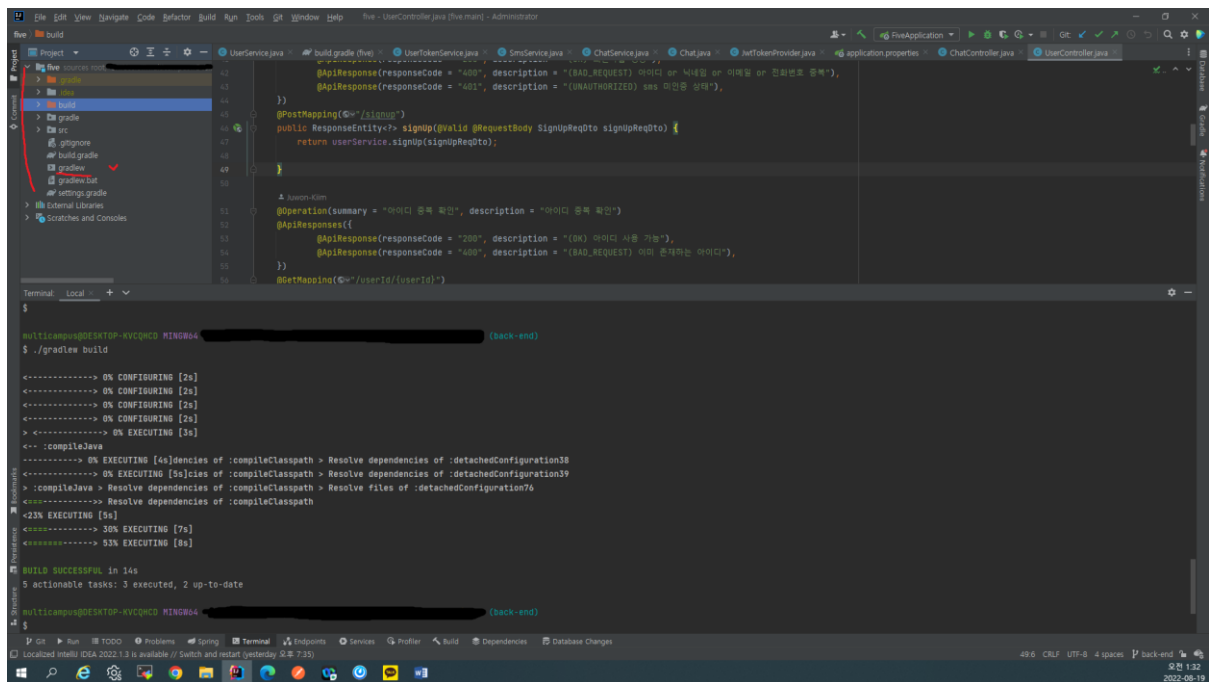


■ Command 버전

gradlew 파일이 있는 경로에서 ./gradlew clean 명령어로 이미 빌드된 파일이 있으면 깨끗하게 지운다



그리고 ./gradlew build 명령어를 통해 빌드시킨다.



- 프론트엔드 빌드 방법
- 리액트 빌드 방법

Root 폴더에서 cd front-web 명령을 통해 웹 폴더로 이동

```
PS C:\SSAFY\secondary\Commom\S07P12D205 (develop)
$ cd front-web/
```

npm run build 명령어로 빌드한다

```
PS C:\SSAFY\secondary\Commom\S07P12D205\front-web (develop)
$ npm run build

> nawaweb@0.1.0 build
> react-scripts build

Creating an optimized production build...
Compiled successfully.

File sizes after gzip:

 165.69 kB  build\static\js\main.8baea3a7.js
 30.82 kB   build\static\css\main.815aa799.css
 1.78 kB    build\static\js\787.e904993f.chunk.js

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.
You may serve it with a static server:

  npm install -g serve
  serve -s build

Find out more about deployment here:

https://cra.link/deployment
```

■ 리액트 네이티브 빌드 방법 (Android 스튜디오 기준)

- ➔ 프로젝트 파일을 원하는 path에 다운로드
- ➔ ./gradle clean 을 통해 기존 설정값 초기화
- ➔ 안드로이드 스튜디오의 가상기기 또는 usb 디버깅을 통한 기기 연결
- ➔ 빌드 및 실행

npm i (--force) 명령어를 통해 모듈 설치. force 옵션을 줘야 설치되는 경우가 있다.

```
multicampus@DESKTOP-KVCQHD MINGW64 ~/Desktop/front-mobile/new_0816/S07P12D205/[FE][MOBLIE]/Nawa (front-mobile-chat)
$ npm i --force
npm WARN config global '--global', '--local' are deprecated. Use '--location=global' instead.
npm WARN using --force Recommended protections disabled.
npm WARN ERESOLVE overriding peer dependency
npm WARN While resolving: @react-native-community/async-storage@1.12.1
npm WARN Found: react@18.0.0
npm WARN node_modules/react
npm WARN   react@"18.0.0" from the root project
npm WARN   29 more (@callstack/react-theme-provider, ...)
npm WARN
npm WARN Could not resolve dependency:
npm WARN peer react@"^16.8" from @react-native-community/async-storage@1.12.1
npm WARN node_modules/@react-native-community/async-storage
npm WARN   @react-native-community/async-storage@"1.12.1" from the root project
npm WARN
npm WARN Conflicting peer dependency: react@16.14.0
npm WARN node_modules/react
npm WARN   peer react@"^16.8" from @react-native-community/async-storage@1.12.1
npm WARN   node_modules/@react-native-community/async-storage
npm WARN     @react-native-community/async-storage@"1.12.1" from the root project
npm WARN ERESOLVE overriding peer dependency
npm WARN While resolving: react-dom@18.2.0
npm WARN Found: react@18.0.0
npm WARN node_modules/react
npm WARN   react@"18.0.0" from the root project
npm WARN   29 more (@callstack/react-theme-provider, ...)
npm WARN
npm WARN Could not resolve dependency:
npm WARN peer react@"^18.2.0" from react-dom@18.2.0
npm WARN node_modules/react-dom
npm WARN   peerOptional react-dom@"^16.8 || ^17.0 || ^18.0" from react-redux@8.0.2
npm WARN   node_modules/react-redux
npm WARN
npm WARN Conflicting peer dependency: react@18.2.0
npm WARN node_modules/react
npm WARN   peer react@"^18.2.0" from react-dom@18.2.0
npm WARN   node_modules/react-dom
npm WARN     peerOptional react-dom@"^16.8 || ^17.0 || ^18.0" from react-redux@8.0.2
npm WARN   node_modules/react-redux
npm WARN ERESOLVE overriding peer dependency
npm WARN While resolving: react-native-nmap@0.66
npm WARN Found: react@18.0.0
```

npm run android 명령어를 사용하여 빌드 및 실행한다.

```
multicampus@DESKTOP-KVCQHD MINGW64 ~/Desktop/front-mobile/new_0816/S07P12D205/[FE][MOBLIE]/Nawa (front-mobile-chat)
$ npm run android
npm WARN config global '--global', '--local' are deprecated. Use '--location=global' instead.

> Nawa@0.0.1 android
> react-native run-android

info Running jetifier to migrate libraries to AndroidX. You can disable it using "--no-jetifier" flag.
Jetifier found 1646 file(s) to forward-jetify. Using 12 workers...
info JS server already running.
info Installing the app...

> Configure project :app
WARNING: The option setting 'android.enableDexingArtifactTransform.desugaring=false' is experimental.
The current default is 'true'.

> Configure project :react-native-firebase-app
:react-native-firebase-app package.json found at C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\@react-native-firebase\app\package.
json
:react-native-firebase-app:firebase.bom using default value: 30.3.1
:react-native-firebase-app:play-services-auth using default value: 20.2.0
:react-native-firebase-app package.json found at C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\@react-native-firebase\app\package.
json
:react-native-firebase-app:version set from package.json: 15.3.0 (15,3,0 - 15003000)
:react-native-firebase-app:android.compileSdk using custom value: 30
:react-native-firebase-app:android.targetSdk using custom value: 30
:react-native-firebase-app:android.minSdk using custom value: 21
:react-native-firebase-app:reactNativeAndroidDir C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\react-native\android

> Configure project :react-native-firebase-database
:react-native-firebase-database package.json found at C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\@react-native-firebase\database
e\package.json
:react-native-firebase-app package.json found at C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\@react-native-firebase\app\package.
json
:react-native-firebase-database:firebase.bom using default value: 30.3.1
:react-native-firebase-database package.json found at C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\@react-native-firebase\database
e\package.json
:react-native-firebase-database:version set from package.json: 15.3.0 (15,3,0 - 15003000)
:react-native-firebase-database:android.compileSdk using custom value: 30
:react-native-firebase-database:android.targetSdk using custom value: 30
:react-native-firebase-database:android.minSdk using custom value: 21
:react-native-firebase-database:reactNativeAndroidDir C:\Users\multicampus\Desktop\front-mobile\new_0816\S07P12D205\[FE][MOBLIE]\Nawa\node_modules\react-native\android
```

- 배포 명령어 정리

Jenkins로 Gitlab과 연동시켜 push event가 발생하거나 merge request가 발생할 때마다 설정에서 지정한 branch의 내용을 빌드 및 배포합니다.

소스 코드 관리

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://lab.ssafy.com/s07-webmobile1-sub2/S07P12D205.git

Credentials ?

cssopy@naver.com/*****

+ Add

고급...

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

back-end

빌드 유발

☐ 빌드를 원격으로 유발 (예: 스크립트 사용) ?

☐ Build after other projects are built ?

☐ Build periodically ?

☒ Build when a change is pushed to GitLab. GitLab webhook URL: http://i7d205.p.ssafy.io:9090/project/teamfive ?

Enabled GitLab triggers

☒ Push Events

☐ Push Events in case of branch delete

☐ Opened Merge Request Events

☐ Build only if new commits were pushed to Merge Request ?

☐ Accepted Merge Request Events

☐ Closed Merge Request Events

■ 프론트엔드 배포

cd front-web

■ 프론트엔드 빌드 파일이 있는 경로까지 이동

sudo npm start &

➔ 빌드 파일 실행

■ 백엔드 배포

cd ../back-end/five

➔ 백엔드 빌드 파일이 있는 경로까지 이동

chmod +x gradlew

➔ gradlew 파일에 실행 권한 부여

sudo ./gradlew clean

➔ clean 하고

sudo ./gradlew build

➔ build 하기

sudo chmod 755 build/libs/five-0.0.1-SNAPSHOT.jar

➔ 빌드한 파일에 755권한을 부여

sudo fuser -k 8080/tcp

➔ 8080포트로 실행 중인 프로세스 kill

sudo nohup java -jar /var/lib/jenkins/workspace/teamfive/back-end/five/build/libs/five-0.0.1-SNAPSHOT.jar >> ./logback/log`date "+%Y%m%d"`.out 2>&1 &

➔ nohup 명령어를 통해 백그라운드로 빌드 파일 실행시키고 해당 날짜의 로그파일을 생성 및 기록

● MySQL Workbench 사용방법

DB 구축

Alter user 'ssafy'@'%' identified by 'ssafy', 'ssafy'@'%' password expire never;

➔ ssafy라는 사용자의 비밀번호 만료기간 never 설정

grant all privileges on *.* to 'ssafy'@'%';

➔ ssafy라는 사용자에게 모든 권한 부여

create database nawa;

➔ nawa 데이터베이스 생성

JPA를 이용한 테이블 생성 및 외래키 설정

use nawa;

➔ nawa 데이터베이스 사용

select * from users;

➔ 회원가입된 유저 확인

- Nginx Default 값

sudo apt install nginx

➔ 서버에 nginx 설치

sudo vi /etc/nginx/sites-available/default

nginx는 기본 80포트 사용

서버: /api로 들어가면 8080포트로 연결

웹: /로 들어가면 3000포트로 연결

```

server {
    listen 80 default_server;
    listen [::]:80 default_server;

    # SSL configuration

    # listen 443 ssl default_server;
    # listen [::]:443 ssl default_server;
    #
    # Note: You should disable gzip for SSL traffic.
    # See: https://bugs.debian.org/773332
    #
    # Read up on ssl_ciphers to ensure a secure configuration.
    # See: https://bugs.debian.org/765782
    #
    # Self signed certs generated by the ssl-cert package
    # Don't use them in a production server!
    #
    # include snippets/snakeoil.conf;

    root /var/lib/jenkins/workspace/teamfive/front-web;

    # Add index.php to the list if you are using PHP
    index index.html index.htm;

    server_name _;

    location / {
        proxy_pass http://localhost:3000;
    }

    location /api {
        # First attempt to serve request as file, then
        # as directory, then fall back to displaying a 404.
        #try_files $uri $uri/ =404;
        root /var/lib/jenkins/workspace/teamfive/back-end;
        proxy_pass http://localhost:8080;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header Host $http_host;
    }

    # pass PHP scripts to FastCGI server
    #
    #location ~ \.php$ {
    #    include snippets/fastcgi-php.conf;
    #
    #    # With php-fpm (or other unix sockets):
    #    fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
    #    # With php-cgi (or other tcp sockets):
    #    fastcgi_pass 127.0.0.1:9000;
    #}

```

파일의 사이즈를 100MB로 늘려줌

```
http {  
  
    ##  
    # Basic Settings  
    ##  
    client_max_body_size 100M;
```

service nginx status

➔ nginx 상태보기

service nginx start

➔ nginx 실행

service nginx stop

➔ nginx 정지

service nginx restart

➔ nginx 재실행

- EC2 세팅

- MySQL 세팅

sudo apt update

➔ Ubuntu 패키지 정보 업데이트

sudo apt install mysql-server

➔ mysql 설치

dpkg -l | grep mysql-server

➔ mysql 설치 확인

```
sudo netstat -tap | grep mysql
```

➔ netstat으로 mysql 실행여부 확인

```
netstat 없으면 sudo apt install net-tools
```

```
cd /etc/mysql/mysql.conf.d
```

➔ mysql.conf.d 디렉토리로 이동

```
sudo vi mysqld.cnf
```

➔ mysqld.cnf 파일 수정. bind-address를 127.0.0.1 -> 0.0.0.0으로 변경

```
sudo mysql
```

➔ mysql에 접속

```
create user 'ssafy'@'%' identified by 'ssafy';
```

➔ 유저 생성(아이디: ssafy, 비밀번호: ssafy)

```
grant all privileges on *.* to 'ssafy'@'%' with grant option;
```

➔ ssafy 아이디에 권한 부여

```
sudo ufw allow 3306
```

➔ mysql 접속 포트 허용