

포팅 매뉴얼

인디라it

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1. 프로젝트 기술 스택

Backend

Spring Boot: 2.6.10

Spring Cloud AWS: 2.2.6 RELEASE

Spring Data JPA: 2.6.10

Spring Security: 2.6.10

Spring Validation: 2.6.10

Spring Web: 2.6.10

Spring Mail: 2.6.10

Spring Test: 2.6.10

Spring Security Test: 5.6.6

Java: openjdk 11.0.16

Gradle: 7.5

MySQL: 8.0.30

JWT: 0.11.5

QueryDSL: 5.0.0

Lombok: 1.18.24

JUnit: 5.8.2

Mockito: 4.6.1

Swagger: 3.0.0

ByteBuddy: 1.12.10

IntelliJ IDEA: 2022.1.4

Frontend

VSCODE 1.70.1

react@18.2.0

react-scripts@2.1.8

react-dom@18.2.0

react-router-dom@6.3.0

mui/material@5.9.3

emotion/react@11.10.0

emotion/styled@11.10.0

mui/icons-material@5.8.4

mui/x-date-pickers@5.0.0-beta.5

moment@2.29.4

react-material-ui-carousel@3.4.2

date-fns@2.29.1

react-query@3.39.2

axios@0.27.2

@testing-library/jest-dom@5.16.4

@testing-library/react@13.3.0

@testing-library/user-event@13.5.0

http-proxy-middleware@2.0.6

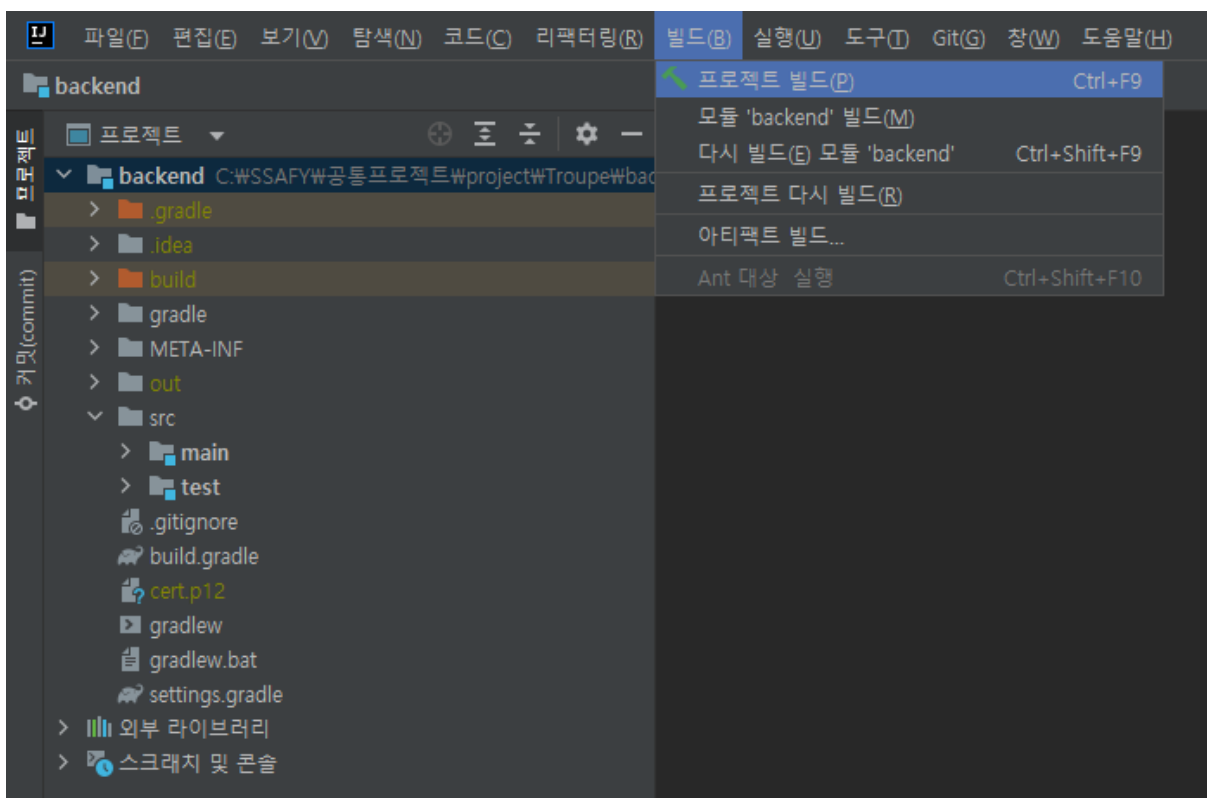
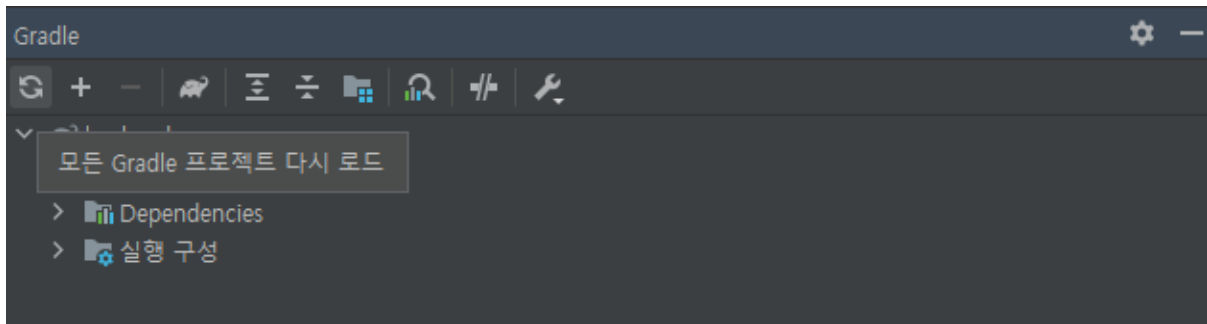
nan@2.16.0 extraneous

prop-types@15.8.1

web-vitals@2.1.4

2. 백엔드 빌드 방법

- Command 버전
/S07P12A804/Troupe/backend 위치에서 `./gradlew build` 명령어 실행
- GUI 버전



3. 프론트엔드 빌드 방법

/S07P12A804/Troupe/frontend 위치로 이동
npm install로 package.json에 포함된 패키지들 설치
npm run build로 빌드 (npm start 명령어로도 가능)

4. 배포 명령어 정리

/home/ubuntu/troupe/S07P12A804/Troupe/deploy.sh 파일을 실행하여 배포

```
REPOSITORY=/home/ubuntu/troupe/S07P12A804/Troupe
PROJECT_NAME=backend
PROJECT_NAME2=frontend

echo "> 기본 디렉토리로 이동 "

cd $REPOSITORY

echo "> Git Pull"

git pull origin dev

echo "> 백엔드 프로젝트 디렉토리로 이동 "

cd $REPOSITORY/$PROJECT_NAME/

echo "> 백엔드 프로젝트 Build 시작 "

./gradlew build

echo "> 기본 디렉토리로 이동 "

cd $REPOSITORY

echo "> Build 파일 복사 "

cp $REPOSITORY/$PROJECT_NAME/build/libs/*.jar $REPOSITORY/

echo "> 프론트엔드 프로젝트 디렉토리로 이동 "

cd $REPOSITORY/$PROJECT_NAME2

echo "> 프론트엔드 빌드 디렉토리로 이동 "

cd build

echo "> 프론트엔드 프로젝트 Build 시작 "

npm run build
```

```
echo "> 현재 구동 중인 애플리케이션 pid 확인 "
```

```
CURRENT_PID=$(pgrep -f ${PROJECT_NAME}.*.jar)
```

```
echo "현재 구동 중인 애플리케이션 pid: $CURRENT_PID"
```

```
if [ -z $CURRENT_PID ]; then
```

```
    echo "> 현재 구동 중인 애플리케이션이 없으므로 종료하지 않습니다."
```

```
else
```

```
    echo "> kill -15 $CURRENT_PID"
```

```
    kill -15 $CURRENT_PID
```

```
    sleep 5
```

```
    CURRENT_PID2=$(pgrep -f {PROJECT_NAME}.*.jar)
```

```
    if [ -z $CURRENT_PID2 ]; then
```

```
        echo ">정상 종료되었습니다."
```

```
    else
```

```
        echo ">강제 종료합니다."
```

```
        kill -9 $CURRENT_PID2
```

```
        sleep 5
```

```
    fi
```

```
fi
```

```
echo "> 새 애플리케이션 배포 "
```

```
cd $REPOSITORY
```

```
JAR_NAME=$(ls $REPOSITORY/ | grep jar | tail -n 1)
```

```
echo "> JAR Name: $JAR_NAME"
```

```
nohup java -jar $REPOSITORY/$JAR_NAME > $REPOSITORY/nohup.out 2>&1 &
```

5. MySQL 워크벤치 사용방법

The screenshot shows the MySQL Workbench 'New Connection' dialog box. The 'Connection Name' field is set to 'AWS RDS'. The 'Connection Method' is set to 'Standard (TCP/IP)'. The 'Parameters' tab is selected, showing the following fields: 'Hostname' (troupe.cvg3ycl5pbuo.ap-nor), 'Port' (3306), 'Username' (empty), 'Password' (with 'Store in Vault ...' and 'Clear' buttons), and 'Default Schema' (empty). Each field has a descriptive tooltip on the right.

Field	Value	Description
Connection Name	AWS RDS	
Connection Method	Standard (TCP/IP)	Method to use to connect to the RDBMS
Hostname	troupe.cvg3ycl5pbuo.ap-nor	Name or IP address of the server host - and TCP/IP port.
Port	3306	
Username		Name of the user to connect with.
Password	Store in Vault ... / Clear	The user's password. Will be requested later if it's not set.
Default Schema		The schema to use as default schema. Leave blank to select it later.

Connection Method: Standard (TCP/IP)

Hostname: troupe.cvg3ycl5pbuo.ap-northeast-2.rds.amazonaws.com

Port: 3306

Username: /S07P12A804/Troupe/backend/src/main/resources/application.yml에 있는 값

Password: /S07P12A804/Troupe/backend/src/main/resources/application.yml에 있는 값

6. Nginx Default 값

```
server {  
  
    server_name i7a804.p.ssafy.io;  
  
    location / {  
        root /home/ubuntu/troupe/S07P12A804/Troupe/frontend/build;  
        index index.html index.htm;  
        try_files $uri $uri/ /index.html;  
        error_page 405 = $uri;  
    }  
  
    location /api {  
        proxy_pass http://localhost:8443;  
    }  
  
    listen 443 ssl; # managed by Certbot  
    ssl_certificate /etc/letsencrypt/live/i7a804.p.ssafy.io/fullchain.pem; # managed by Certbot  
    ssl_certificate_key /etc/letsencrypt/live/i7a804.p.ssafy.io/privkey.pem; # managed by Certbot  
    include /etc/letsencrypt/options-ssl-nginx.conf; # managed by Certbot  
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem; # managed by Certbot  
}  
  
server {  
    if ($host = i7a804.p.ssafy.io) {  
        return 301 https://$host$request_uri;  
    } # managed by Certbot  
  
    listen 80;  
    listen 3000:80;  
  
    server_name i7a804.p.ssafy.io;  
    return 404; # managed by Certbot  
}
```

7. EC2 세팅

ubuntu: 20.04 LTS

java: openjdk 11.0.16

git: 2.25.1

gradle: 7.5

mysql: 8.0.30

npm: 6.14.4

nginx: 1.18.0

snapd: 2.56.2

certbot: 1.29.0

8. AWS S3

이미지 파일 업로드를 위한 서버

/S07P12A804/Troupe/backend/src/main/resources/aws.yml에 설정

```
cloud:
  aws:
    credentials:
      accessKey:
      secretKey:
    s3:
      bucket: hongjoo.troupe.project
      region:
      static: ap-northeast-2
    stack:
      auto: false
```

9. AWS RDS

DB 서버

/S07P12A804/Troupe/backend/src/main/resources/application.yml에 설정

```
datasource:
  url: jdbc:mysql://troupe.cvg3ycl5pbuo.ap-northeast-2.rds.amazonaws.com:3306/troupe ?useSSL=false&useUnicode=true&serverTimezone=Asia/Seoul
  driver-class-name: com.mysql.cj.jdbc.Driver
  username:
  password:
```

10. Google Gmail SMTP

회원가입, 비밀번호 재설정 시의 이메일 인증을 위해 사용

/S07P12A804/Troupe/backend/src/main/resources/application.yml에 설정

```
mail:
  host: smtp.gmail.com
  port: 587
  username:
  password:
  properties:
    mail:
      smtp:
        auth: true
        starttls:
          enable: true
          required: true
        connectiontimeout: 5000
        timeout: 5000
        writetimeout: 5000
```

11. gitignore된 파일 추가되는 위치

/home/ubuntu/troupe/S07P12A804/Troupe/backend/src/main/resources/application.yml

/home/ubuntu/troupe/S07P12A804/Troupe/backend/src/main/resources/aws.yml

/home/ubuntu/troupe/S07P12A804/Troupe/backend/src/test/resources/application.yml

/home/ubuntu/troupe/S07P12A804/Troupe/backend/src/test/resources/aws.yml

/home/ubuntu/troupe/S07P12A804/Troupe/backend/cert.p12