

🔎 서비스 개요

닌텐도 스위치 구매 전, 한 번 체험해 보고 싶으신 적 있으셨나요? 여행 갈 때만 쓰고 싶은데 평소엔 잘 쓰지 않아 구입을 망설인 제품이 있으신가요? 우리 동네 안심 물품 대여 서비스, See You Again 입니다.

🗶 주요 기능 소개

- 물품 대여 : 잠깐 필요한데 사기엔 부담스러운 물품을 대여
- 안전 구역 추천 : 경찰서, cctv, 가로등 위치 데이터를 기반으로 거래하기 안전한 장소 추천
- 실시간 위치 공유 : 물품 대여나 반납 시 서로 헤매지 않도록 실시간 위치 공유
- 실시간 채팅 : 대여 예약이나 장소 변경, 약속 시간 등을 정하기 쉽도록 실시간 채팅 기능 제공

🔧 기술 스택

FrontEnd

- Visual Studio Code
- o Node.js: 9.4.1
- o react: 18.2.0
- o react-dom: 18.2.0
- o react-chartjs-2: ^5.2.0
- o react-hook-form: ^7.43.8
- o redux: ^4.2.1
- husky: ^8.0.3
- o eslint: ^8.2.0
- o prettier: 2.8.4
- o tailwindcss: ^3.2.7
- axios: ^1.3.4
- o firebase: 9.22.0

BackEnd

- IntelliJ
- o OpenJDK 11
- o Gradle: 7.6.1
- o SpringBoot v2.7.9
- o SpringCloud: 2021.0.6
 - Netflix Eureka Service (Discovery Service)
 - API Gateway
- Spring Security

Kafka

Websocket : 2.3.3firebase : 9.1.1

• CI/CD

- o AWS EC2
- Docker
 - Bridge Network
- Jenkins
 - Pipeline

• 협업 툴

- o Git Lab
- Jira
- Mattermost
- Discord
- Notion
- Postman

• DB

- MySQL
- Redis

🌞 환경 변수

• user-service application.yml

```
server:
    # port 번호가 0번이면 랜덤으로 배정된다.
     port: 0
spring:
    application:
         name: user-service
           multipart:
                 maxFileSize: 50MB
                  maxRequestSize: 50MB
     h2:
            console:
                   enabled: true
                   settings:
                       web-allow-others: true
                   path: /h2-console
    datasource:
            url: jdbc:mysql://localhost:3306/seeyouagain?useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=UTC&characterEncoding=UTF-8
             url: jdbc: mysql://k8c101.p.ssafy.io: 3307/seeyou again? use SSL=false \&allow Public Key Retrieval=true \&server Timezone=Asia/Seoul \& character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Key Retrieval=true & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & Character allow Public Retrieval & Server Timezone Asia/Seoul & 
            username: root
           password: seeyouagain1234
             password: kp23156385@
           driver-class-name: com.mysql.cj.jdbc.Driver
           database: mysql
            database-platform: org.hibernate.dialect.MySQL5InnoDBDialect # 추가 해준 부분
            hibernate:
                  ddl-auto: update
            show-sql: true
            generate-ddl: true
            properties:
                  hibernate:
                         default_batch_fetch_size: 500
      redis:
             lettuce:
                   pool:
```

```
min-idle: 0
       max-idle: 8
      max-active: 8
   port: 6379
host: localhost
 profiles:
   include: oauth
 instance:
   prefer-ip-address: true
   instance-id: $\{spring.application.instance\_id: \$\{random.value\}\} \\
 client:
   register-with-eureka: true
   fetch-registry: true
   service-url:
     defaultZone: http://127.0.0.1:8761/eureka
logging:
 level:
   com.example.userservice.client: DEBUG
gateway:
   ip: 192.168.100.51
# ip: 192.168.100.120
 ip: 172.18.0.7/16
# ip: 192.168.0.100
# ip: 172.20.10.2
product-service:
 ip: 172.18.0.8/16
chatting-service:
 ip: 172.18.0.11/16
 cloud:
 aws:
     bucket: seeyouagain-s3-bucket
   stack.auto: false
   region.static: ap-northeast-2
   credentials:
     accessKey: AKIAZDX46XDEUXV5APLQ
     secretKey: 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
```

· product-service application.yml

```
server:
      port: 0
spring:
      application:
              name: product-service
        servlet:
              multipart:
                     maxFileSize: 50MB
                      maxRequestSize: 50MB
              console:
                       enabled: true
                       settings:
                           web-allow-others: true
                       path: /h2-console
      datasource:
                url: jdbc:mysql://localhost:3306/seeyouagain?useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=Asia/Seoul
               url: jdbc: mysql: //k8c101.p.ssafy.io: 3308/seeyouagain? useSSL=false\&allowPublicKeyRetrieval=true\&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=true&serverTimezone=Asia/SeoullowPublicKeyRetrieval=True&serverTimezone=Asia/SeoullowPublicKeyRetrieval=True&serverTimezone=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKeyRetrieval=Asia/SeoullowPublicKey
               username: root
              password: seeyouagain1234
password: kp23156385@
               driver-class-name: com.mysql.cj.jdbc.Driver
       jpa:
               database: mysql
                {\tt database\text{-}platform:\ org.hibernate.dialect.MySQL8Dialect}
               hibernate:
                      ddl-auto: update
               show-sal: true
               generate-ddl: true
        instance:
               prefer-ip-address: true
```

```
instance-id: \$\{spring.application.name\}: \$\{spring.application.instance\_id: \$\{random.value\}\}
  client:
    register-with-eureka: true
    fetch-registry: true
    service-url:
      defaultZone: http://127.0.0.1:8761/eureka
    {\tt com.example.productservice.client:} \ {\tt DEBUG}
cloud:
  aws:
    region:
      static: ap-northeast-2
    s3:
      bucket: seeyouagain-s3-bucket
    credentials:
      access-key: AKIAZDX46XDEUXV5APLQ
      secret-key: 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
      auto: false
```

· chatting-service application.yml

```
server:
 port: 0
spring:
 application:
   name: chatting-service
 servlet:
   multipart:
     maxFileSize: 50MB
     maxRequestSize: 50MB
 h2:
   console:
     enabled: true
     settings:
       web-allow-others: true
     path: /h2-console
 datasource:
   url: jdbc:mysql://localhost:3306/seeyouagain?useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=Asia/Seoul
   username: root
   password: seeyouagain1234
    password: kp23156385@
   driver-class-name: com.mysql.cj.jdbc.Driver
 jpa:
   database: mvsql
   {\tt database\text{-}platform:\ org.hibernate.dialect.MySQL8Dialect}
   hibernate:
    ddl-auto: update
   show-sql: true
   generate-ddl: true
eureka:
 instance:
   prefer-ip-address: true
   instance-id: $\{spring.application.name\}: $\{spring.application.instance\_id: \$\{random.value\}\} \}
   register-with-eureka: true
   fetch-registry: true
   service-url:
    defaultZone: http://127.0.0.1:8761/eureka
logging:
   com.example.chattingservice.client: DEBUG
cloud:
 aws:
   s3:
     bucket: seeyouagain-s3-bucket
   stack.auto: false
   region.static: ap-northeast-2
   credentials:
     accessKey: AKIAZDX46XDEUXV5APLQ
     secretKey: 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
```

FrontEnd

• Docker 이미지 생성을 위한 Dockerfile (해당 파일은 frontend 폴더 내에 작성되어 있습니다.)

```
# Use an official Node runtime as a parent image
FROM node:16.19.0

# Set the working directory to /app
# Copy the package.json and package-lock.json files to the container
COPY package*.json ./

# Install dependencies
# RUN npm install --production 이건 지금 에러남
RUN npm install
# Copy the rest of the application files to the container
COPY . .

# Build the production version of the app
RUN npm run build
# Expose the port that the app will run on2332
EXPOSE 3000

CMD ["npm", "run", "start"]
```

· FrontEnd Jenkins Pipeline Script

```
pipeline {
             agent any
             environment {
                          FRONTEND_PROJECT='frontend-service'
                          ,
// 깃랩 프로젝트 코드를 클론해오는 코드
                          stage('github clone') {
                                        steps {
                                                  git branch: 'release',
                                                     // Global Credentials ID
                                                     credentialsId: 'seeyouagainglobalkey',
                                                     url: 'https://lab.ssafy.com/s08-final/S08P31C101'
                         3
                          // 프로젝트 빌드
                          stage('Build') {
                                       // parallel - 프로젝트 병렬 처리
                                        parallel {
                                                     stage('build-frontend'){
                                                                when {
                                                                              changeset "frontend/**"
                                                                  }
                                                                  steps{
                                                                               dir('frontend') {
                                                                                             sh 'docker build -t ssafyseeyouagain/\{FRONTEND\_PROJECT\} .'
                                                                                      sh 'docker push ssafyseeyouagain/\{FRONTEND\_PROJECT\}'
                                                               }
                                                  }
                                      }
                           // 배포 명령어
                          stage('Deploy'){
                                         // 병렬 처리
                                       parallel{
                                                     stage('deploy-frontend-service'){
                                                                  // 해당 프로젝트에서 changeset이 발생했을 떄 동작
                                                                   when{
                                                                               changeset "frontend/**"
                                                                }
                                                                  steps{
                                                                              sh 'docker stop ${FRONTEND_PROJECT} || true && docker rm ${FRONTEND_PROJECT} || true'
                                                                               sh \ 'docker \ run \ -d \ -p \ 3000: 3000 \ --network \ seeyouagain-network \ --name \ \$\{FRONTEND\_PROJECT\} \ ssafyseeyouagain/\$\{FRONTEND\_PROJECT\} \ ssafyseeyouagain/\$\{FRONT
                                                    }
```

```
}
}
```

BackEnd

· eureka-service Dockerfile

```
FROM openjdk:17-ea-11-jdk-slim
VOLUME /tmp
COPY build/libs/eureka-service-0.0.1-SNAPSHOT.jar EurekaService.jar
ENTRYPOINT ["java", "-jar", "EurekaService.jar"]
```

· apigateway-service Dockerfile

```
FROM openjdk:17-ea-11-jdk-slim
VOLUME /tmp
COPY build/libs/apigateway-service-0.0.1-SNAPSHOT.jar ApigatewayService.jar
ENTRYPOINT ["java", "-jar", "ApigatewayService.jar"]
```

· user-service Dockerfile

```
FROM openjdk:17-ea-11-jdk-slim

VOLUME /tmp

COPY build/libs/user-service-0.0.1-SNAPSHOT.jar UserService.jar

RUN ln -sf /usr/share/zoneinfo/Asia/Seoul /etc/localtime

ENTRYPOINT ["java", "-jar", "UserService.jar"]
```

· product-service Dockerfile

```
FROM openjdk:17-ea-11-jdk-slim
VOLUME /tmp
COPY build/libs/product-service-0.0.1-SNAPSHOT.jar ProductService.jar
RUN ln -sf /usr/share/zoneinfo/Asia/Seoul /etc/localtime
ENTRYPOINT ["java", "-jar", "ProductService.jar"]
```

• chatting-service Dockerfile

```
FROM openjdk:17-ea-11-jdk-slim

VOLUME /tmp

COPY build/libs/chatting-service-0.0.1-SNAPSHOT.jar ChattingService.jar

RUN ln -sf /usr/share/zoneinfo/Asia/Seoul /etc/localtime

ENTRYPOINT ["java", "-jar", "ChattingService.jar"]
```

• BackEnd Jenkins Pipeline Script

```
pipeline {
    agent any

tools {
        gradle 'gradle7.6'
    }

// 빌드 커맨드와 마이크로 서비스 선언
environment {
        BUILD_COMMAND = ' ./gradlew clean build -x test'
        PRODUCT_PROJECT='product-service'
        USER_PROJECT='user-service'
        CHATTING_PROJECT='chatting-service'
        EUREKA_PROJECT='eureka-service'
        GATEWAY_PROJECT='api-gateway-service'
}

stages {
        // 깃랩 프로젝트 코드를 클론해오는 코드
        stage('github clone') {
            steps {
```

```
git branch: 'release',
        // Global Credentials ID
        {\tt credentialsId: 'seeyou againg lobal key',}
        url: 'https://lab.ssafy.com/s08-final/S08P31C101'
   }
}
// 프로젝트 빌드
stage('Build') {
    // parallel - 프로젝트 병렬 처리
    parallel {
        stage('build-eureka-service'){
            when {
               changeset "backend/eureka-service/**"
            steps{
               dir('backend/eureka-service') {
                   sh 'chmod +x ./gradlew'
sh "$BUILD_COMMAND"
               }
        stage('build-api-gateway-service'){
           when {
              changeset "backend/apigateway-service/**"
            }
            steps{
               dir('backend/apigateway-service') {
                  sh 'chmod +x ./gradlew'
                   sh "$BUILD_COMMAND"
           }
        stage('build-product-service'){
            // 해당 프로젝트에 changeset이 발생했을때 동작
               changeset "backend/product-service/**"
            3
            steps{
               dir('backend/product-service') {
                   sh 'chmod +x ./gradlew'
                 // environment 에서 선언한 빌드 커맨드
                   sh "$BUILD_COMMAND"
               }
           }
        stage('build-user-service'){
            when {
               changeset "backend/user-service/**"
            steps{
               dir('backend/user-service') {
                   sh 'chmod +x ./gradlew'
                   sh "$BUILD_COMMAND"
        stage('build-chatting-service'){
           when {
              changeset "backend/chatting-service/**"
            steps{
               dir('backend/chatting-service') {
                   sh 'chmod +x ./gradlew'
                   sh "$BUILD_COMMAND"
               }
           }
       }
// 빌드된 도커 이미지를 도커 허브에 push 하기 위한 작업
stage('Backup & Copy'){
   // 병렬 처리
    parallel{
        stage('backup-copy-eureka-service'){
            when{
               changeset "backend/eureka-service/**"
           }
            steps{
               dir('backend/eureka-service') {
                   sh 'docker build -t ssafyseeyouagain/${EUREKA_PROJECT} .'
                   sh 'docker push ssafyseeyouagain/${EUREKA_PROJECT}'
           }
        stage('backup-copy-api-gateway-service'){
```

```
changeset "backend/apigateway-service/**"
                                    steps{
                                               dir('backend/apigateway-service') {
                                                           sh 'docker build -t ssafyseeyouagain/${GATEWAY_PROJECT} .'
                                                           sh 'docker push ssafyseeyouagain/${GATEWAY_PROJECT}'
                       }
                       stage('backup-copy-product-service'){
// 해당 프로젝트에 changeset이 발생했을 떄 동작
                                              changeset "backend/product-service/**"
                                    steps{
                                              dir('backend/product-service') {
                                                          sh 'docker build -t ssafyseeyouagain/${PRODUCT_PROJECT} .'
                                                           sh 'docker push ssafyseeyouagain/${PRODUCT_PROJECT}'
                                              }
                       stage('backup-copy-user-service'){
                                             changeset "backend/user-service/**"
                                   steps{
                                               dir('backend/user-service') {
                                                            sh 'docker build -t ssafyseeyouagain/${USER_PROJECT} .'
                                                           sh 'docker push ssafyseeyouagain/\{USER\_PROJECT\}'
                                  }
                       stage('backup-copy-chatting-service'){
                                   when{
                                             changeset "backend/chatting-service/**"
                                   steps{
                                              dir('backend/chatting-service') {
    sh 'docker build -t ssafyseeyouagain/${CHATTING_PROJECT} .'
                                                           sh 'docker push ssafyseeyouagain/${CHATTING_PROJECT}'
                      }
          }
// 배포 명령어
stage('Deploy'){
           // 병렬 처리
           parallel{
                       stage('deploy-eureka-service'){
                                  when{
                                              changeset "backend/eureka-service/**"
                                               sh 'docker stop EUREKA_PROJECT\} \mid\mid true && docker rm EUREKA_PROJECT\} \mid\mid true'
                                               \verb|sh|'| docker run -d -p 8761:8761 -- network seeyouagain-network -- name $\{EUREKA\_PROJECT\} \ ssafyseeyouagain/\$\{EUREKA\_PROJECT\} \ ssafyseeyouagain/\$\{EUREKA\_
                                   }
                       stage('deploy-api-gateway-service'){
                                              changeset "backend/apigateway-service/**"
                                   steps{
                                               sh 'docker stop GATEWAY_PROJECT\} \mid\mid true \&\& docker rm <math>GATEWAY_PROJECT\} \mid\mid true'
                                               sh 'docker run -d -p 8000:8000 --network seeyouagain-network --name ${GATEWAY_PROJECT} -e "eureka.client.servi
                       stage('deploy-product-service'){
                                   // 해당 프로젝트에서 changeset이 발생했을 때 동작
                                   when{
                                               changeset "backend/product-service/**"
                                              // 기존에 해당 프로젝트 이름으로 만들어진 컨테이너가 실행중이라면 정지 후 삭제
                                                sh 'docker stop ${PRODUCT_PROJECT} || true && docker rm ${PRODUCT_PROJECT} || true'
                                                // docker hub에 재 업로드된 이미지를 받아서 컨테이너 재실행
                                               \verb|sh'| docker run -d --network | seeyouagain-network | --name | $\{PRODUCT\_PROJECT\} - e | "eureka.client.serviceUrl.default" | --name | -
                                   }
                       stage('deploy-user-service'){
                                              changeset "backend/user-service/**"
                                   steps{
                                               sh 'docker stop {USER\_PROJECT} \mid\mid true \&\& docker rm <math>{USER\_PROJECT} \mid\mid true'
```

```
sh 'docker run -d --network seeyouagain-network --name ${USER_PROJECT} -e "eureka.client.serviceUrl.defaultZon}
}

stage('deploy-chatting-service'){
    when{
        changeset "backend/chatting-service/**"
    }
    steps{
        sh 'docker stop ${CHATTING_PROJECT} || true && docker rm ${CHATTING_PROJECT} || true'
        sh 'docker run -d --network seeyouagain-network --name ${CHATTING_PROJECT} -e "eureka.client.serviceUrl.defaul}
}

}
}
}
}
}
```

Nginx

• 상태 확인



sudo service nginx status

• 재실행



sudo service nginx restart

• 환경설정 - etc/nginx/sites-available/custom.conf

```
upstream frontend {
   server localhost:3000;
upstream backend {
    server localhost:8000;
server {
    listen 80;
    server_name k8c101.p.ssafy.io;
    location /{
        proxy_pass http://frontend;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        \verb"proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for";
    location /user-service {
       proxy pass http://backend/user-service;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        \verb"proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for";
    location /product-service {
        proxy_pass http://backend/product-service;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        {\tt proxy\_set\_header~X-Forwarded-For~\$proxy\_add\_x\_forwarded\_for;}
    location /chatting-service {
        proxy_pass http://backend/chatting-service;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
```

```
if ($scheme != "https") {
        return 301 https://$host$request_uri;
}
server {
    listen 443 ssl;
    server_name k8c101.p.ssafy.io;
    ssl_certificate /etc/letsencrypt/live/k8c101.p.ssafy.io/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/k8c101.p.ssafy.io/privkey.pem;
        proxy_pass http://frontend;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    location /_next/webpack-hmr {
        proxy_pass http://frontend/_next/webpack-hmr;
        proxy_http_version 1.1;
        proxy set header Upgrade $http upgrade;
        proxy_set_header Connection "upgrade";
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
    location /user-service {
        proxy_pass http://backend/user-service;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        \verb"proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for";
    location /product-service {
        proxy_pass http://backend/product-service;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        \verb|proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;|\\
    location /chatting-service {
        proxy_pass http://backend/chatting-service;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
}
```

♀️ 외부 서비스

Kakao OAuth : application-oauth.yml에 해당 내용 있음

OAuth 기반 소셜 로그인 API 제공

https://developers.kakao.com/docs/latest/ko/getting-started/rest-api

```
spring:
    security:
    oauth2:
    client:
        registration:
        kakao:
        client-id: 5c2af632e5eb943eadbf20d0c4006bdb
        client-secret: x7TGPwsREQ44ndn3YoVQ0berBwoPFbRE
        client-name: Kakao
        scope:
            - profile_nickname
            - profile_limage
            - account_email
        authorization-grant-type: authorization_code
```

```
redirect-uri: http://k8c101.p.ssafy.io:8000/user-service/login/oauth2/code/kakao
    client-authentication-method: POST
provider:
    kakao:
    authorization-uri: https://kauth.kakao.com/oauth/authorize
    token-uri: https://kauth.kakao.com/oauth/token
    user-info-uri: https://kapi.kakao.com/v2/user/me
    user-name-attribute: id
```