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1. 개발환경

1-1 프론트엔드

- 패키지 관리 및 빌드 도구
 - vite: ^5.2.0
- 상태 관리

zustand: ^4.5.2

• HTTP 클라이언트

axios: ^1.6.8

• 라우팅

react-router-dom: ^6.23.0

• 코드 스타일링 및 품질 관리

• prettier: ^3.2.5

o postcss: ^8.4.38

• 유틸리티

o qs: ^6.12.1

• 타입스크립트

typescript: ^5.2.2

@types/qs: ^6.9.15

@types/sockjs-client: ^1.5.4

@types/stompjs: ^2.3.9

@types/react: ^18.2.66

@types/react-dom: ^18.2.22

@types/node: ^20.12.11

@typescript-eslint/eslint-plugin: ^7.2.0

@typescript-eslint/parser: ^7.2.0

• API 클라이언트

@aws-sdk/client-s3: ^3.572.0

aws-sdk: ^2.1617.0

• CSS 프레임워크 및 유틸리티

tailwindcss: ^3.4.3

tailwind-scrollbar-hide: ^1.1.7

@iconify/tailwind: ^0.1.4

flowbite: ^2.3.0

flowbite-react: ^0.9.0

• UI 컴포넌트

o @material-tailwind/react: ^2.1.9

• 애니메이션

• framer-motion: ^11.1.7

react-transition-group: ^4.4.5

• 웹소켓 및 실시간 통신

@stomp/stompjs: ^7.0.0

socketjs-client: ^1.0.2

stomp: ^0.1.1

• event-source-polyfill: ^1.0.31

• 이미지 슬라이더

swiper: ^11.1.1

• 쿠키 관리

react-cookie: ^7.1.4

Toast 메시지

react-hot-toast: ^2.4.1

• Babel 플러그인

babel-plugin-transform-define: ^2.1.4

• Project Running Process

Project Setup

yarn install

• Compile and Minify for Production

yarn build

Compile and Hod-Reload for Development

1-2 백엔드

IntelliJ: 2023.3.2

• Spring Boot: 3.2.3

• JDK: 21

• MySQL: 8.0.22

• Redis: 7.2.4

• MongoDB: 7.0.8

1-3 서버 및 인프라

• Server: Ubuntu 20.04.6 LTS

• Jenkins: 2.449

• wsl: 2.0

2. 설정파일 및 환경 변수 정보

Spring

application.properties

```
#server.port=3000
server.servlet.context-path=/api

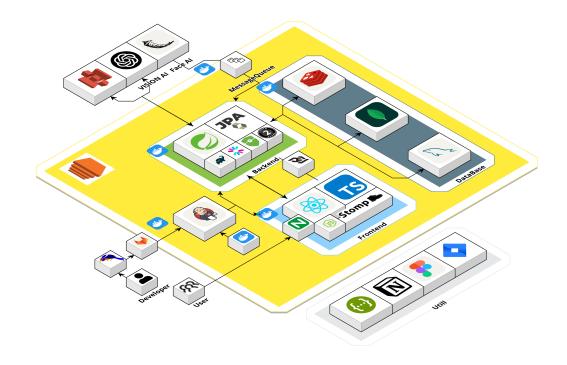
#SpringSecurity
#kakao_registration
spring.security.oauth2.client.registration.kakao.client-name=
spring.security.oauth2.client.registration.kakao.client-id={i
spring.security.oauth2.client.registration.kakao.client-secre
spring.security.oauth2.client.registration.kakao.redirect-uris
spring.security.oauth2.client.registration.kakao.authorizatio
spring.security.oauth2.client.registration.kakao.scope={scope}
```

```
#kakao_provider
spring.security.oauth2.client.provider.kakao.authorization-ur
spring.security.oauth2.client.provider.kakao.token-uri=https:
spring.security.oauth2.client.provider.kakao.user-info-uri=ht
spring.security.oauth2.client.provider.kakao.user-name-attrib
spring.security.oauth2.client.registration.kakao.client-authe
#Email setting
spring.mail.host={host}
spring.mail.port=587
spring.mail.username={username}
spring.mail.password={password}
spring.mail.properties.mail.smtp.auth=true
spring.mail.properties.mail.smtp.starttls.enable=true
spring.mail.properties.mail.smtp.starttls.required=true
spring.mail.properties.mail.smtp.connectiontimeout=5000
spring.mail.properties.mail.smtp.timeout=5000
spring.mail.properties.mail.smtp.writetimeout=5000
# 30min
spring.mail.auth-code-expiration-millis=1800000
#mysql
spring.datasource.driver-class-name=com.mysgl.cj.jdbc.Driver
spring.datasource.url={usr}
spring.datasource.username={username}
spring.datasource.password={password}
#CamelCase
spring.jpa.hibernate.naming.implicit-strategy=org.springframe
spring.jpa.hibernate.ddl-auto=none
#redis
spring.data.redis.host=j10d104.p.ssafy.io
spring.data.redis.port={port}
spring.data.redis.password={password}
#JWT
spring.jwt.secret={secret}
```

```
#S3 key
cloud.aws.credentials.accessKey={accessKey}
cloud.aws.credentials.secretKey={secretKey}
#S3 bucketName
cloud.aws.s3.bucketName={bucketName}
#S3 location
cloud.aws.region.static={static}
#cloud formation ??? ???? ?? ??.
cloud.aws.stack.auto=false
#fileUploadMaxSpeed
spring.servlet.multipart.max-file-size=-1
spring.servlet.multipart.max-request-size=-1
#30min accessToken
spring.jwt.access=1800000
#60min refreshToken
spring.jwt.refresh=3600000
#mongoDB
spring.data.mongodb.uri={uri}
```

3. AWS 서버 설정

3-1 프로젝트 구조



3-2 Docker 설치

1. apt 업데이트

apt-get update

2. 도커 설치

apt-get install docker-ce docker-ce-cli containerd.io docker-compose-plugin

3. **도커 설치 확인**

docker run hello-world

4. 도커 버전 확인

docker -v

5. **도커 데몬 실행**

systemctl start docker

3-3 Jenkins 설치 및 설정

1. jenkins container 생성 및 구동

cd /home/ubuntu && mkdir jenkins-data

sudo ufw allow *8080*/tcp

```
sudo ufw reload
sudo ufw status

sudo docker run -d -p 8080:8080 -v /home/ubuntu/jenkins-dat
a:/var/jenkins_home --name jenkins jenkins/jenkins:lts

sudo docker logs jenkins
sudo docker stop jenkins
sudo docker ps -a
```

2. 환경 변수 설정

```
cd /home/ubuntu/jenkins-data
mkdir update-center-rootCAs
wget https://cdn.jsdelivr.net/gh/lework/jenkins-update-center.
sudo sed -i 's#https://updates.jenkins.io/update-center.json#
sudo docker restart jenkins
```

3. 젠킨스 접속

http://j10d104.p.ssafy.io:8080/

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (**not sure where to find it?**) and this file on the server:

/var/jenkins_home/secrets/initialAdminPassword

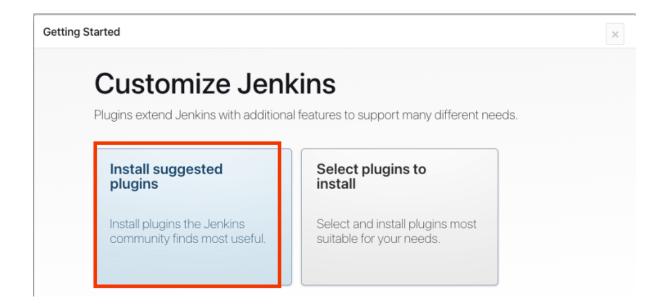
Please copy the password from either location and paste it below.

Administrator password

4. 젠킨스 접속 키 확인

sudo docker logs jenkins

5. 필수 플러그인 설치



6. GitLab 연동 설정

깃랩 api 토큰 생성

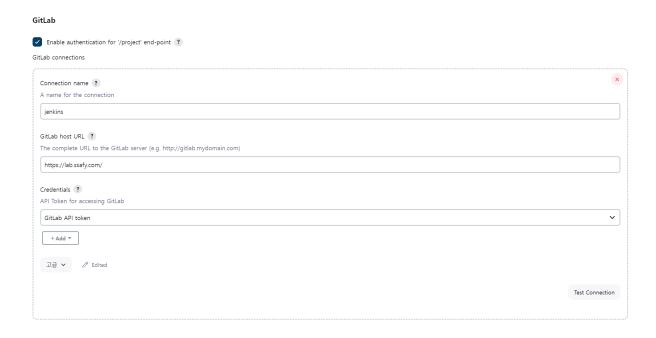
Project Access Tokens Generate project access tokens scoped to this project for your applications that need access to the GitLab API. You can also use project access tokens with Git to authenticate over HTTP(S). Learn more. Active project access tokens © 2 Add a project access token Token name Jenkins For example, the application using the token or the purpose of the token. Do not give sensitive information for the name of the token, as it will be visible to all project members. Expiration date 2024-03-13 Select a role Developer Select scopes Scopes set the permission levels granted to the token. Learn more.

Jenkins credential 추가

New credentials



system 설정 → GitLab 설정

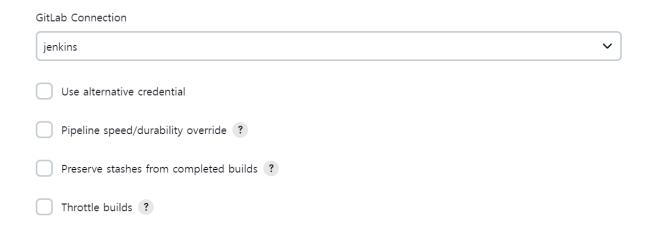


7. 백앤드 CI/CD 파이프라인

새로운 Item을 Pipeline으로 생성



미리 만들어둔 Gitlab 연동 할당



Build Triggers 설정

• 백엔드, 프론트엔드 브런치에 푸쉬 이벤트 발생 시 빌드 유발하도록 설정

Build Triggers

	Build after other projects are built ?	
	Build periodically ?	
✓	Build when a change is pushed to GitLab. GitLab webhook URL: http://i10d205.p.ssafy.io:8080/project/backend-cicd-pipeline	?
	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 ?	
	Rebuild open Merge Requests ?	
	Never	~]

GitLab 웹훅 설정

Enable [ci-skip] ?	
Ignore WIP Merge Requests ?	
Labels that launch a build if they are added (comma-separated)	
Set build description to build cause (eg. Merge request or Git Push) ?	
Build on successful pipeline events	
Pending build name for pipeline ?	
Cancel pending merge request builds on update ?	
Allowed branches	
Allow all branches to trigger this job ?	
Filter branches by name ?	
Filter branches by regex ?	
Filter merge request by label	
Secret token ?	
GitLab Webhook Secret token	
	Generate

GitLab 웹훅 추가

Webhooks

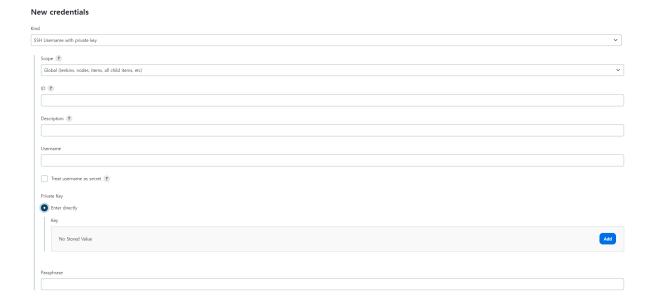
Webhooks enable you to send notifications to web applications in response to events in a group or project. We recommend using an integration in preference to a webhook.



8. SSH 설정

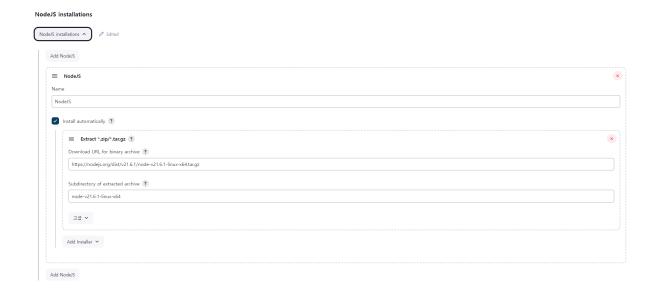
Jenkins Pipeline 에서 AWS 서버에 빌드 파일 전송 및 실행을 위한 SSH 설정

- Jenkins Plugin 에서 SSH Agent Plugin 설치
- Credentials 추가



• key 에 SSH pem 파일 정보 복사 후 붙여넣기

9. NodeJs 설정



10. 백엔드 파이프라인 스크립트

```
pipeline {
    agent any
    tools {
        gradle 'gradle'
    }
    stages {
        stage('Clone') {
            steps {
                git branch: 'BE', credentialsId: 'gitlab', ur
            }
        }
        stage('Build') {
            steps{
                dir("./back/ukiki"){
                     sh 'java -version'
                     sh 'chmod +x gradlew && ./gradlew clean b
                }
            }
        // stage('sonarqube') {
```

```
//
           steps{
    //
               dir("./back/ukiki"){
    //
                   withSonarQubeEnv('sonarqube'){
    //
                       sh './gradlew sonarqube'
    //
                   }
    //
               }
    //
           }
    // }
    stage('Deploy') {
        steps {
            sshagent(credentials: ['ssh_key']) {
                sh 'ssh -o StrictHostKeyChecking=no ubunt
                sh 'pwd'
                                             //빌드파일을 서비
                sh 'scp /var/jenkins_home/workspace/BE/ba
                                             //컨테이너 생성을
                sh 'ssh ubuntu@k10d202.p.ssafy.io "cd /ho
            }
        }
    }
}
post {
    success {
        script {
            def Author_ID = sh(script: "git show -s --pre
            def Author_Name = sh(script: "git show -s --p
            mattermostSend (color: 'good',
            message: "[${env.JOB_NAME} #${env.BUILD_NUMBE|
            )
        }
    }
    failure {
        script {
            def Author_ID = sh(script: "git show -s --pre
            def Author_Name = sh(script: "git show -s --p
            mattermostSend (color: 'danger',
            message: "[${env.JOB_NAME} #${env.BUILD_NUMBE|
```

```
)
}
}
}
```

11. 백엔드 DockerFile

```
FROM openjdk:21

EXPOSE 5000

COPY ukiki-0.0.1-SNAPSHOT.jar back.jar

ENTRYPOINT ["java", "-jar", "-Dencryptor.key=I*EsAlz4Hwjnhd+j
```

12. 백엔드 run.sh

```
echo "rmi process running" #같은 이름의 이미지가 있다면 삭제
sudo docker rmi -f $(sudo docker images -f "dangling=true" -q
```

13. 프론트엔드 파이프라인 스크립트

```
pipeline {
    agent any
    stages {
        stage('clone') {
            steps {
                git branch: 'FE', credentialsId : 'gitlab', u
            }
        }
        stage('build') {
            steps{
                dir('front'){
                     nodejs(nodeJSInstallationName: 'nodeJS'){
                           sh 'node --version'
                           sh 'npm install -g yarn'
                           sh 'yarn install && yarn build'
                     }
                }
            }
        }
    //
           stage("sonarqube") {
    //
            steps{
    //
                     script{
                     def scannerHome = tool 'sonar-scanner';
    //
    //
                        withSonarQubeEnv(installationName: 'son
    //
                             sh "${scannerHome}/bin/sonar-scan
    //
                     }
    //
                     }
    //
            }
    //
            }
        stage('tar') {
            steps {
```

```
dir('front'){
                sh 'tar -cvf dist.tar dist' //빌드 파일 압축
            }
        }
   }
   stage('ssh') {
    steps {
        dir('front'){
            sshagent(credentials: ['ssh_key']) {
                sh 'ls'
                sh 'ssh -o StrictHostKeyChecking=no ubunt
                                    //빌드 파일 서버 전송
                sh 'scp dist.tar ubuntu@k10d202.p.ssafy.i
            }
        }
   }
  }
  stage('unpack'){
      steps {
          sshagent(credentials: ['ssh_key']) {
                                    //빌드 파일 압축 해제
                sh 'ssh ubuntu@k10d202.p.ssafy.io "cd /ho
            }
      }
  }
  stage('run.sh'){
      steps {
          sshagent(credentials: ['ssh_key']) {
                                    //컨테이너 생성을 위한 쉘
                sh 'ssh ubuntu@k10d202.p.ssafy.io "cd /ho
            }
      }
 }
}
post {
    success {
        script {
            def Author_ID = sh(script: "git show -s --pre
```

```
def Author_Name = sh(script: "git show -s --p
                mattermostSend (color: 'good',
                message: "[${env.JOB_NAME} #${env.BUILD_NUMBE
            }
        }
        failure {
            script {
                def Author_ID = sh(script: "git show -s --pre
                def Author_Name = sh(script: "git show -s --p
                mattermostSend (color: 'danger',
                message: "[${env.JOB_NAME} #${env.BUILD_NUMBE
                )
            }
        }
   }
}
```

14. 프론트엔드 DockerFile

```
FROM nginx:latest

# root 에 app 폴더를 생성
RUN mkdir /app

# work dir 고정
WORKDIR /app

# work dir 에 dist 폴더 생성 /app/dist
RUN mkdir ./dist

# host pc의 현재경로의 dist 폴더를 workdir 의 dist 폴더로 복사
ADD ./dist ./dist

# nginx 의 default.conf 를 삭제
```

```
RUN rm /etc/nginx/conf.d/default.conf
# host pc 의 default.conf 를 아래 경로에 복사
COPY ./default.conf /etc/nginx/conf.d/
# 8082 포트 오픈
EXPOSE 8082
```

15. **프론트엔드 run.sh**

13. MQ 파이프라인 스크립트

```
pipeline {
   agent any

  tools {
      gradle 'gradle'
  }

  stages {
```

```
stage('Clone') {
        steps {
            git branch: 'MQ', credentialsId: 'gitlab', ur
        }
    }
    stage('Build') {
        steps{
            dir("./MQ/ukkikki"){
                sh 'pwd'
                sh 'java -version'
                sh 'chmod +x gradlew && ./gradlew clean b
            }
        }
    }
    stage('Deploy') {
        steps {
            sshagent(credentials: ['ssh_key']) {
                sh 'ssh -o StrictHostKeyChecking=no ubunt
                sh 'pwd'
                                             //빌드파일을 서비
                sh 'scp /var/jenkins_home/workspace/MQ/MQ
                                             //컨테이너 생성을
                sh 'ssh ubuntu@k10d202.p.ssafy.io "cd /ho
            }
        }
   }
}
post {
    success {
        script {
            def Author_ID = sh(script: "git show -s --pre
            def Author_Name = sh(script: "git show -s --p
            mattermostSend (color: 'good',
            message: "[${env.JOB_NAME} #${env.BUILD_NUMBE
            )
        }
    }
    failure {
```

```
script {
    def Author_ID = sh(script: "git show -s --pre
    def Author_Name = sh(script: "git show -s --p

    mattermostSend (color: 'danger',
        message: "[${env.JOB_NAME}} #${env.BUILD_NUMBE}
    )
    }
}
```

14. MQ DockerFile

```
FROM openjdk:21

EXPOSE 5555

COPY ukkikki-0.0.1-SNAPSHOT.jar back.jar

ENTRYPOINT ["java", "-jar", "/back.jar"]
```

15. **프론트엔드 run.sh**

3-4 MySQL 컨테이너 생성

1. MySQL Docker Image 다운로드

docker pull mysql:8.0.22

2. 다운로드 된 Docker Image 확인

docker images -a

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mysql	8.0.22	d4c3cafb11d5	3 weeks ago	545MB

3. MySQL Docker 컨테이너 생성 & 실행

docker run --name mysql -e MYSQL_ROOT_PASSWORD=[패스워드] -d -p 3306:3306 mysql:8.0.22

4. Docker 컨테이너 리스트 확인

docker ps -a

CONTAINER ID	IMAGE	NAMES mysql	COMMAND	CREATED	STATUS	PORTS
fd55b73a7a60	mysql:8.0.22		"docker-entrypoint.s"	2 weeks ago	Up 11 days	0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp

3-5 Redis 컨테이너 생성

1. Redis Docker Image 다운로드

docker pull --platform linux/amd64 redis

2. 다운로드 된 Docker Image 확인

docker images -a

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
redis	latest	bdff4838c172	4 weeks ago	138MB

3. Redis Docker 컨테이너 생성 & 실행

```
docker run --name redis -p 6379:6379 --network redis-network -it -d redis
```

4. Docker 컨테이너 리스트 확인

docker ps -a



3-6 MongoDB 컨테이너 생성

1. Mongo Docker Image 다운로드

```
docker pull mongo
```

2. 다운로드 완료 Docker Image 확인

```
docker images -a
```

3. MongoDB 컨테이너 생성 & 실행

```
sudo docker run --name mongo -p {port}:{port} -e MONGO_INITDB_ROOT_USERNAME=
{username} -e MONGO_INITDB_ROOT_PASSWORD={password} -d mongo
```

4. Docker 컨테이너 리스트 확인

```
docker ps -a
```

3-7 NginX 설치 및 설정

1. Nginx 설치

```
sudo apt update
sudo apt install nginx
```

2. Nginx 상태 체크

```
systemctl status nginx
```

- 3. HTTPS 적용
- Certbot 설치

```
sudo apt install certbot python3-certbot-nginx
```

• 인증서 발급

```
sudo certbot --nginx -d 도메인 이름 -d www.도메인 이름
```

• 옵션 선택 2번

```
Please choose whether or not to redirect HTTP traffic to HTTP:

1: No redirect - Make no further changes to the webserver con

2: Redirect - Make all requests redirect to secure HTTPS acce
new sites, or if you're confident your site works on HTTPS. You

change by editing your web server's configuration.

Select the appropriate number [1-2] then [enter] (press 'c' to
```

• Nginx 설정 파일 작성 및 다운로드 제한 설정

```
cd /etc/nginx/sites-available
sudo vim deploy-test.conf
server {
        location / {
                proxy_pass http://localhost:8082;
        }
        location /api/v1 {
                proxy_pass http://localhost:5000;
        }
                client_max_body_size 100M;
        listen 443 ssl;
        ssl_certificate /etc/letsencrypt/live/<도메인>/fullchai
        ssl_certificate_key /etc/letsencrypt/live/<도메인>/priv
}
server {
        if ($host = <도메인>) {
                return 301 https://$host$request_uri;
        }
        listen 80;
        server_name <도메인>;
                client_max_body_size 100M;
        return 404;
}
```

3. AI 서버

3-1. 개발 환경 설정

- 1. GPU 가속을 위한 CUDA 및 cudnn 설치
 - a. 현재 사용중인 GPU와 dlib 요구사항을 고려하여 CUDA 10.2 / cudnn 8.0 설치
- 2. CMake 설치
 - a. https://cmake.org/download/ 최신버전 설치
- 3. Visual Studio 2019 설치

https://visualstudio.microsoft.com/ko/thank-you-downloading-visual-studio/?sku=Community&rel=16

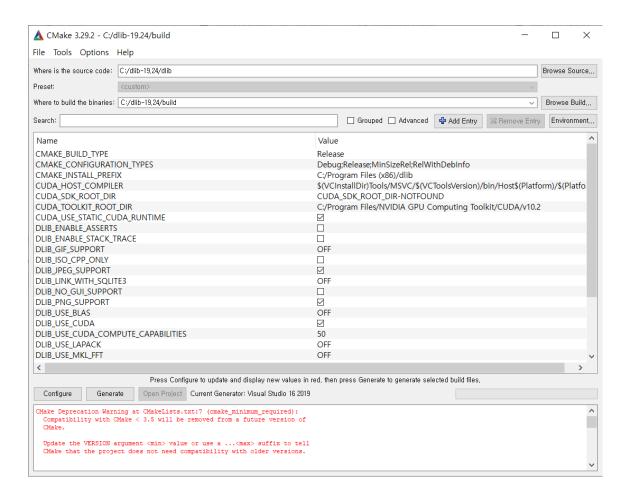
설치 세부 정보

- ▶ Visual Studio 핵심 편집기
- ▼ C++를 사용한 데스크톱 개발
 - ▼ 포함됨
 - ✔ C++ 핵심 데스크톱 기능
 - ▼ 선택사항
 - ✓ MSVC v142 VS 2019 C++ x64/x86 빌드...
 - Windows 10 SDK(10.0.19041.0)
 - ✓ Just-In-Time 디버거
 - ✓ C++ 프로파일링 도구
 - ✓ Windows용 C++ CMake 도구
 - ✓ 최신 v142 빌드 도구용 C++ ATL(x86 및 x64)
 - Test Adapter for Boost.Test
 - Test Adapter for Google Test
 - Live Share
 - IntelliCode
 - C++ AddressSanitizer
 - MSVC v142 VS 2019 C++ ARM64 빌드 도...
 - 최신 v142 빌드 도구용 C++ MFC(x86 및 x6...
 - v142 빌드 도구용 C++/CLI 지원(최신)

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4. dlib 설치

- a. http://dlib.net/ 최신버전 설치
- b. 압축파일 해제
- c. C:\Program Files\CMake\bin\cmake-gui.exe cmake 실행



- sourece code 와 build 디렉토리 지정후 Configure 버튼 클릭
- DLIB_USE_CUDA 항목으로 GPU 인식 여부 확인
- Generate 버튼 클릭
- Open Project 버튼으로 프로젝트 빌드
- 5. cmd 창에서 dlib이 설치된 폴더로 이동한 후 설치

cd dlib-19.22

4. MySQL dump

```
-- MySQL dump 10.13 Distrib 8.0.34, for Win64 (x86_64)
-- Host: j10d104.p.ssafy.io Database: grabpic
-- Server version 8.0.22
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULT
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD TIME ZONE=@@TIME ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FO
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALU
/*!40111 SET @OLD SQL NOTES=@@SQL NOTES, SQL NOTES=0 */;
-- Dumping data for table `alarm`
LOCK TABLES `alarm` WRITE;
/*!40000 ALTER TABLE `alarm` DISABLE KEYS */;
/*!40000 ALTER TABLE `alarm` ENABLE KEYS */;
UNLOCK TABLES;
-- Dumping data for table `biology_list`
LOCK TABLES `biology_list` WRITE;
/*!40000 ALTER TABLE `biology_list` DISABLE KEYS */;
```

```
INSERT INTO `biology_list` VALUES (1,'식육목','개과','개속','회색
/*!40000 ALTER TABLE `biology list` ENABLE KEYS */;
UNLOCK TABLES;
-- Dumping data for table `encyclopedia`
LOCK TABLES `encyclopedia` WRITE;
/*!40000 ALTER TABLE `encyclopedia` DISABLE KEYS */;
INSERT INTO `encyclopedia` VALUES (1,9,13,'2024-04-04 02:04:0
/*!40000 ALTER TABLE `encyclopedia` ENABLE KEYS */;
UNLOCK TABLES:
-- Dumping data for table `gallery log`
LOCK TABLES `gallery_log` WRITE;
/*!40000 ALTER TABLE `gallery_log` DISABLE KEYS */;
INSERT INTO `gallery_log` VALUES (1,11,1),(2,5,4),(3,11,3),(4
/*!40000 ALTER TABLE `gallery log` ENABLE KEYS */;
UNLOCK TABLES;
-- Dumping data for table `quest book`
LOCK TABLES `quest book` WRITE;
/*!40000 ALTER TABLE `guest_book` DISABLE KEYS */;
INSERT INTO `quest book` VALUES (1,9,5,'우와 쇠오리 어디서 수집하셨
/*!40000 ALTER TABLE `quest book` ENABLE KEYS */;
UNLOCK TABLES;
-- Dumping data for table `reports`
```

```
LOCK TABLES `reports` WRITE;
/*!40000 ALTER TABLE `reports` DISABLE KEYS */;
/*!40000 ALTER TABLE `reports` ENABLE KEYS */;
UNLOCK TABLES;
-- Dumping data for table `subscribe`
LOCK TABLES `subscribe` WRITE;
/*!40000 ALTER TABLE `subscribe` DISABLE KEYS */;
INSERT INTO `subscribe` VALUES (1,11,9),(2,9,11),(5,5,9),(6,5
/*!40000 ALTER TABLE `subscribe` ENABLE KEYS */;
UNLOCK TABLES;
-- Dumping data for table `user`
LOCK TABLES `user` WRITE;
/*!40000 ALTER TABLE `user` DISABLE KEYS */;
INSERT INTO `user` VALUES (1, 'test@test.com', '$2a$10$f2DBkXM4
/*!40000 ALTER TABLE `user` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME ZONE=@OLD TIME ZONE */;
/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS */;
/*!40014 SET UNIQUE CHECKS=@OLD UNIQUE CHECKS */;
/*!40101 SET CHARACTER SET CLIENT=@OLD CHARACTER SET CLIENT *
/*!40101 SET CHARACTER SET RESULTS=@OLD CHARACTER SET RESULTS
/*!40101 SET COLLATION CONNECTION=@OLD COLLATION CONNECTION *
/*!40111 SET SQL NOTES=@OLD SQL NOTES */;
-- Dump completed on 2024-04-04 10:36:48
```

5. MQ 서버

5-1. 개발 환경

IntelliJ: 2023.3.2Spring Boot: 3.2.3

• JDK: 21

5-2. application.yaml

```
server:
  port: 5555
  servlet:
    context-path: /mq

spring:
  servlet:
    multipart:
    max-file-size: -1
    max-request-size: -1
```