



포팅 매뉴얼

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1. 개발환경

1.1 Frontend

- Node JS 20.10.0
- React 18.2.0
 - Redux 9.1.0
 - Persist 6.0.0
- Axios 1.6.8
- TypeScript 4.9.5

1.2 Backend

- Java
 - Gradle 8.6
 - Netty 4.1.107
 - Spring Boot 3.2.4
 - Spring Data JPA 3.2.4
 - Spring Data MongoDB 4.2.4
 - Spring Web
 - Lombok 1.18.30
 - Spring Security 6.2.3
 - Spring Cloud 4.1.0
 - Eureka Server 2.0.1
 - Eureka Client 2.0.1
 - mySQL Connector 8.3.0
 - RabbitMQ 5.19.0
 - Prometheus 0.16.0
 - Zipkin
 - aws 0.23.5
 - brave 5.16.0
 - reporter2 2.16.3

1.3 Server

- Nginx
- Docker
- Jenkins

1.4 DataBase

- MySQL 8.3.0

- MongoDB 7.0.6

2. EC2 세팅

2.1 EC2 Port

Service	Port
React	
Client	3000
Spring Cloud	
Discovery-Service	8761
Config-Service	8763
Gateway-Service	8000
Word-Service	8081
Script-Service	8082
Test-Service	8084
Category-Service	8085
User-Service	8086
Video-Service	8087
FastAPI	
Language-Service	8778
trans-Service	8779
Monitoring & CICD & Log & MQ & Analysis	
Zipkin	9411
Grafana	13000
Prometheus	19090
Rabbitmq	5672
Jenkins	9000
Sonarqube	7199
DB	
Mysql	3306

Service	Port
MongoDB	27017
Redis	6379

2.2 Jenkins Pipeline

```

pipeline {
    agent any

    # 빌드 결과를 5회까지 저장
    options {
        buildDiscarder(logRotator(numToKeepStr: '5'))
    }

    environment {
        def Author_ID = sh(script: "git show -s --pretty=%an"
        def Git_Message = sh(script: "git show -s --pretty=%s
        def Git_Branch = sh(script: "git branch --show", retu

        DOCKERHUB_CREDENTIALS = 'credential'
        String docker_hub = "docker hub repository"
        dockerImage = ''
        String docker_name = "docker container name"

        # image version
        int build_id = Integer.parseInt("${env.BUILD_ID}")
        int version = build_id.intdiv(10).plus(build_id.mod(1

    }

    tools {
        gradle 'gradle_'
    }

    stages {
        stage('clone') {
            steps {
                echo 'service clone'
            }
        }
    }
}

```

```

        # git branch clone - credential 작성
    }
}

stage('SonarQube Analysis') {
    steps {
        dir('user_service'){
            withSonarQubeEnv('sonar') {
                # gradlew 권한 부여 및 정적 분석 툴
                sh 'chmod +x gradlew && ./gradlew sonar'
            }
        }
    }
}

stage('Build'){
    steps{
        dir('user_service'){
            # gradle build (-x check - test 안함)
            sh 'gradle clean build -x check'
        }
    }
}

stage('Docker Build') {
    steps {
        echo 'service build'
        dir('folder name'){
            script {
                # docker image build
                dockerImage = docker.build docker_hub
            }
        }
    }
}

stage('Login') {
    steps {

```

```

        script {
            # docker image push
            'docker login with credential'{
                dockerImage.push("latest")
                dockerImage.push(version)
            }
        }
    }
}
stage('stop prev container') {
    steps {
        script {
            try {
                # active container stop / remove & im
                sh '''
                    docker stop ${docker_name}
                    docker rm ${docker_name}
                    docker rmi $(docker images | egrep
                    yes | sudo docker image prune
                    sudo docker system prune -f
                    ...
                '''
            } catch (Exception e) {
                echo 'no prev container'
            }
        }
    }
}

stage('Deploy') {
    steps {
        sh '''
            docker run -d --name ${docker_name} --net
            ...
        '''
    }
}
}

```

```

    post {
        success {
            script {
                mattermostSend (
                    color: '#B3A7DC',
                    message: "### :agree_pepe: Success ${env.JOB_NAME}"
                )
            }
        }

        failure {
            script {
                mattermostSend (
                    color: '#F17845',
                    message: "### :pepe_9: Fail ${env.JOB_NAME}"
                )
            }
        }
    }
}

```

2.3 Nginx

/etc/nginx/site-available/default.conf

```

server {
    # 80 port listen -> 80은 nginx default port
    listen 80 default_server;
    listen [::]:80 default_server;

    root /var/www/html;

    index index.html index.htm index.nginx-debian.html;

    server_name j10b107.p.ssafy.io;

    # / 아래로 오는 요청은 3000번 port로 전송 -> 3000 port
}

```

```

location / {
    proxy_pass http://localhost:3000;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x
    proxy_set_header Host $http_host;
}

# /api 아래로 오는 요청은 8000번 port 로 전송 -> 80
location /api {

    # "/api" 접두사를 제거함
    # rewrite ^/api(.*) $1 break;
    proxy_pass http://localhost:8000;

    # 실제 접속자의 IP를 X-Real-IP 헤더로 설정
    # remote_addr : 요청한 클라이언트 IP
    # X-Forwarded-For와 동일하게 클라이언트 IP를 전달
    proxy_set_header X-Real-IP $remote_addr;

    # 프록시나 로드 밸런서를 통해 들어온 요청에서 클라이언트 IP를
    # 프록시 헤더값을 변조할 수 있음
    # X-Forwarded-For 만 사용할 경우
    proxy_set_header X-Forwarded-For $proxy_add_x

    #HTTP Request 의 Host 헤더값
    #http 요청이 들어 왔을 시 호스트 명을 그대로 전달
    proxy_set_header Host $http_host;

    # HTTPS 서버 블록 내에서 사용할 경우
    proxy_set_header X-Forwarded-Proto $scheme;

    # 백엔드 서버에 의해 촉발된 리다이렉션
    # off : 리다이렉션은 설정 된 그대로
    proxy_redirect off;
}

# ssl 인증서 적용 (아래 경로는 ssl 인증 키 존재)

```



```

    listen 443 ssl; # managed by Certbot
    ssl_certificate /etc/letsencrypt/live/p.ssafy.io/full
    ssl_certificate_key /etc/letsencrypt/live/p.ssafy.io/
}

server {
    # host가 if 조건에 맞으면 https로 redirect
    if ($host = j10b107.p.ssafy.io) {
        return 301 https://$host$request_uri;
    } # managed by Certbot

    listen 80;

    server_name j10b107.p.ssafy.io;

    return 404; # managed by Certbot
}

```

2.4 Docker Compose

Docker Compose (DB)

```

version: '3'
services:
  mysql:
    image: mysql
    container_name: mysql
    # 컨테이너 실행 시 재시작
    restart: always
    # 포트 설정(external:internal)
    ports:
      - 3306:3306
    # 볼륨 설정
    volumes:
      - ./mysql/data:/var/lib/mysql
    # 환경 변수 설정
    environment:
      MYSQL_ROOT_PASSWORD: ssafy

```

```

        TZ: Asia/Seoul
# 명령어 설정
command:
  - --character-set-server=utf8mb4
  - --collation-server=utf8mb4_unicode_ci
networks:
  - cloud

mongodb:
  image: mongo
  container_name: mongodb
  restart: always
  ports:
    - 27017:27017
  volumes:
    - ./mongodb/data:/data/db
  environment:
    - MONGO_INITDB_ROOT_USERNAME=ssafy
    - MONGO_INITDB_ROOT_PASSWORD=b107
  networks:
    - cloud

redis:
  image: redis
  container_name: redis
  hostname: redis
  restart: always
  ports:
    - 6379:6379
  volumes:
    - ./redis/data:/data
    - ./redis/conf/redis.conf:/etc/redis/redis.conf
  command:
    - redis-server /etc/redis/redis.conf
    - redis-server --requirepass ssafyb107 --port 6379
  networks:
    - cloud

```

```
networks:
  cloud:
    external: true
```

Docker Compost Util

```
version: '3'
services:
  zipkin:
    image: openzipkin/zipkin
    container_name: zipkin
    ports:
      - 9411:9411
    restart: always
    # ***** zipkin 로그를 sql에 저장하려면 openz
    # environment:
    # - STORAGE_TYPE=mysql # log 저장 storage
    # - MYSQL_DB=zipkin # db name
    # - MYSQL_HOST=mysql # db host
    # - MYSQL_USER=root # db id
    # - MYSQL_PASS=ssafy # db pwd
    # - MYSQL_TCP_PORT=3306 # db port
    # - MYSQL_MAX_CONNECTIONS=10 (default)
    # - MYSQL_USER_SSL=false (default)
    networks:
      - cloud

  rabbitmq:
    image: rabbitmq:3.12.13-management-alpine
    container_name: rabbitmq
    volumes:
      - rabbitmq_volume_config:/etc/rabbitmq/ # 설정파일
      - rabbitmq_volume_data:/var/lib/rabbitmq/ # data
      - rabbitmq_volume_log:/var/log/rabbitmq/ # log 파일
    restart: always
    ports:
      - '5672:5672' # rabbitmq port
      - '15672:15672' # rabbitmq gui port
```

```

environment:
  RABBITMQ_ERLANG_COOKIE: 'RabbitMQ-Cookies' # Erla
  RABBITMQ_DEFAULT_USER: 'ssafy' # id
  RABBITMQ_DEFAULT_PASS: 'b107' # pwd
networks:
  - cloud

prometheus:
  image: prom/prometheus
  container_name: prometheus
  volumes:
    - ./prometheus/config:/etc/prometheus # config fo
    - ./prometheus/config/prometheus.yml:/etc/prometh
    - ./prometheus/volume:/prometheus # prometheus의 c
  ports:
    - 19090:9090 # 접근 포트 설정 (컨테이너 외부:컨테이너 내부)
  command:
    - '--web.enable-lifecycle' # web.enable-lifecycle
    - '--storage.tsdb.retention=90d' # prometheus의 데
    - '--config.file=/etc/prometheus/prometheus.yml'
  restart: always
  networks:
    - cloud

grafana:
  image: grafana/grafana
  container_name: grafana
  ports:
    - '13000:3000'
  environment:
    - GF_SECURITY_ADMIN_USER=ssafy # id
    - GF_SECURITY_ADMIN_PASSWORD=b107 # pw
  restart: always
  user: '$UID:$GID'
  volumes:
    - ./grafana:/var/lib/grafana
  depends_on:
    - prometheus

```

```

        - loki
    networks:
        - cloud

loki:
    image: grafana/loki:latest
    ports:
        - '3100:3100'
    command: -config.file=/etc/loki/local-config.yaml
    networks:
        - cloud

promtail:
    image: grafana/promtail:latest
    volumes:
        - ./logs/backend:/logs
        - ./promtail-config.yml:/etc/promtail/config.yml
    command: -config.file=/etc/promtail/config.yml
    depends_on:
        - loki
    networks:
        - cloud

# 생성할 볼륨의 위치를 docker에게 위임 - volume 위치를 rabbitmq가 못잡
volumes:
    rabbitmq_volume_config:
    rabbitmq_volume_data:
    rabbitmq_volume_log:

networks:
    cloud:
        external: true

```

2.5 Prometheus

Service Registry

```
global:
  scrape_interval: 15s
  scrape_timeout: 10s
  scrape_protocols:
    - OpenMetricsText1.0.0
    - OpenMetricsText0.0.1
    - PrometheusText0.0.4
  evaluation_interval: 15s
alerting:
  alertmanagers:
    - follow_redirects: true
      enable_http2: true
      scheme: http
      timeout: 10s
      api_version: v2
      static_configs:
        - targets: []
scrape_configs:
- job_name: prometheus
  honor_timestamps: true
  track_timestamps_staleness: false
  scrape_interval: 15s
  scrape_timeout: 10s
  scrape_protocols:
    - OpenMetricsText1.0.0
    - OpenMetricsText0.0.1
    - PrometheusText0.0.4
  metrics_path: /metrics
  scheme: http
  enable_compression: true
  follow_redirects: true
  enable_http2: true
  static_configs:
    - targets:
        - localhost:19090
- job_name: grafana
  honor_timestamps: true
  track_timestamps_staleness: false
```

```

scrape_interval: 15s
scrape_timeout: 10s
scrape_protocols:
- OpenMetricsText1.0.0
- OpenMetricsText0.0.1
- PrometheusText0.0.4
metrics_path: /metrics
scheme: http
enable_compression: true
follow_redirects: true
enable_http2: true
static_configs:
- targets:
  - grafana:13000
- job_name: apigateway-service
honor_timestamps: true
track_timestamps_staleness: false
scrape_interval: 15s
scrape_timeout: 10s
scrape_protocols:
- OpenMetricsText1.0.0
- OpenMetricsText0.0.1
- PrometheusText0.0.4
metrics_path: /actuator/prometheus
scheme: http
enable_compression: true
follow_redirects: true
enable_http2: true
static_configs:
- targets:
  - gateway:8000
- job_name: word-service
honor_timestamps: true
track_timestamps_staleness: false
scrape_interval: 15s
scrape_timeout: 10s
scrape_protocols:
- OpenMetricsText1.0.0

```

```

- OpenMetricsText0.0.1
- PrometheusText0.0.4
metrics_path: /word-service/actuator/prometheus
scheme: http
enable_compression: true
follow_redirects: true
enable_http2: true
static_configs:
- targets:
  - word-service:8081
- job_name: script-service
honor_timestamps: true
track_timestamps_staleness: false
scrape_interval: 15s
scrape_timeout: 10s
scrape_protocols:
- OpenMetricsText1.0.0
- OpenMetricsText0.0.1
- PrometheusText0.0.4
metrics_path: /script-service/actuator/prometheus
scheme: http
enable_compression: true
follow_redirects: true
enable_http2: true
static_configs:
- targets:
  - script-service:8081
- job_name: test-service
honor_timestamps: true
track_timestamps_staleness: false
scrape_interval: 15s
scrape_timeout: 10s
scrape_protocols:
- OpenMetricsText1.0.0
- OpenMetricsText0.0.1
- PrometheusText0.0.4
metrics_path: /test-service/actuator/prometheus
scheme: http

```



```

enable_compression: true
follow_redirects: true
enable_http2: true
static_configs:
- targets:
  - test-service:8084
- job_name: category-service
  honor_timestamps: true
  track_timestamps_staleness: false
  scrape_interval: 15s
  scrape_timeout: 10s
  scrape_protocols:
  - OpenMetricsText1.0.0
  - OpenMetricsText0.0.1
  - PrometheusText0.0.4
  metrics_path: /category-service/actuator/prometheus
  scheme: http
  enable_compression: true
  follow_redirects: true
  enable_http2: true
  static_configs:
  - targets:
    - category-service:8085
- job_name: user-service
  honor_timestamps: true
  track_timestamps_staleness: false
  scrape_interval: 15s
  scrape_timeout: 10s
  scrape_protocols:
  - OpenMetricsText1.0.0
  - OpenMetricsText0.0.1
  - PrometheusText0.0.4
  metrics_path: /user-service/actuator/prometheus
  scheme: http
  enable_compression: true
  follow_redirects: true
  enable_http2: true
  static_configs:

```

```
- targets:
  - user-service:8086
- job_name: video-service
  honor_timestamps: true
  track_timestamps_staleness: false
  scrape_interval: 15s
  scrape_timeout: 10s
  scrape_protocols:
    - OpenMetricsText1.0.0
    - OpenMetricsText0.0.1
    - PrometheusText0.0.4
  metrics_path: /video-service/actuator/prometheus
  scheme: http
  enable_compression: true
  follow_redirects: true
  enable_http2: true
  static_configs:
    - targets:
      - video-service:8087
```

3. 외부 서비스

3.1 구글 소셜 로그인

| 구글 로그인 api

3.1.1 Google Developers Setting

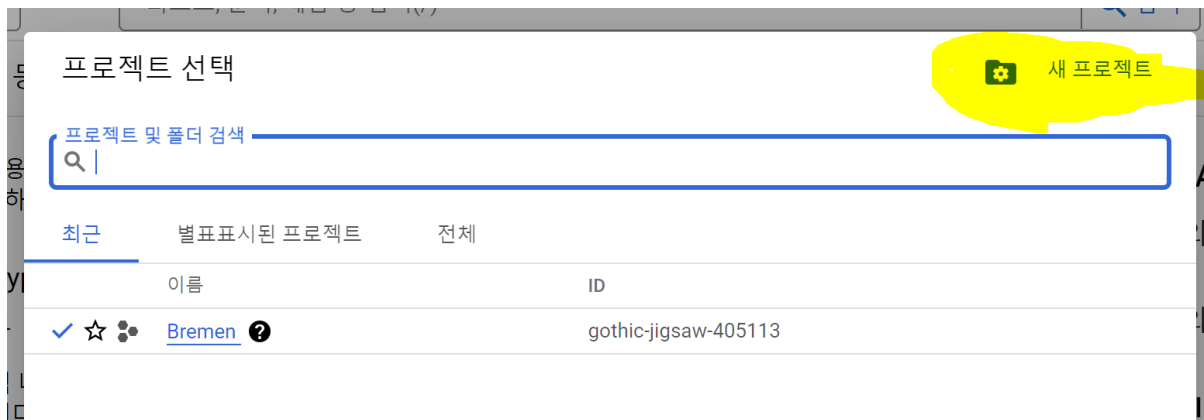
1. OAuth 동의 화면 검색 후 이동
2. Google Cloud에서 새 프로젝트 생성
3. 필수 정보만 입력 후 범위 추가

API OAuth 동의 화면

API 및 서비스

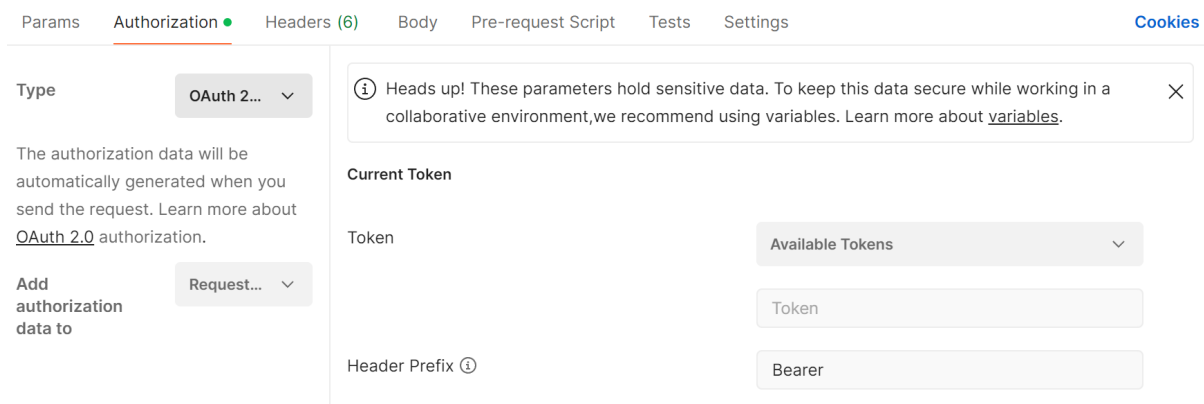
유형: 제품 또는 페이지

제품: API 및 서비스



3.1.2 Json

1. Json 다운로드 후 파일 열기
2. Postman 실행 후 OAuth 2.0 선택
3. 항목 채우고 토큰 생성하기



- token name : 아무값이나
- Callback URL : 구글 클라우드 플랫폼에서 프로젝트 생성시 넣은 값
- Auth URL : json 파일의 auth_uri
- Access Token URL : json 파일의 token_uri
- Scope : 나는 <https://www.googleapis.com/auth/cloud-platform> 값을 넣음. 필수값이다

3.2 유튜브 API

3.2.1 유튜브 API 사용내역

- 채널의 재생목록 조회
<https://developers.google.com/youtube/v3/docs/playlists/list?hl=ko>
- 재생목록 내의 영상 조회
<https://developers.google.com/youtube/v3/docs/playlistItems/list?hl=ko>
- 검색 결과 조회
<https://developers.google.com/youtube/v3/docs/search/list?hl=ko>

3.2.2 유튜브 영상 조회

1. 유튜브 채널의 재생목록 아이디 추출

The screenshot shows a REST client interface with a GET request to the YouTube API. The URL is `https://www.googleapis.com/youtube/v3/playlists?part=snippet&key=AlzaSyBLIRft-3tSa3wrWQw8BijUnMNyqRI6Vzc&cl...`. The request is sent, and the response is shown in the 'Body' tab as a JSON object.

Query Params

Key	Value	Description
part	snippet	
key	AlzaSyBLIRft-3tSa3wrWQw8BijUnMNyqRI6Vzc	
channelId	UCPqrEgBEHVj4vDITrCINQIw	
pageToken	CB4QAA	
maxResults	1	

Body (JSON)

```

{
  "items": [
    {
      "kind": "youtube#playlist",
      "etag": "UblgKmHw2UbNhQWgxPI8Xffu08Y",
      "id": "PLjCw5iaIPkI0wsra0hFvwLUC3Zr2HeyxX",
      "snippet": {
        "publishedAt": "2022-02-07T10:57:28Z",
        "channelId": "UCPqrEgBEHVj4vDITrCINQIw",

```

2. 재생목록 아이디로 재생목록 내의 영상 추출

GET <https://youtube.googleapis.com/youtube/v3/playlistItems?part=snippet&part=contentDetails&maxResults=50&key=Alza...> Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

<input checked="" type="checkbox"/>	part	snippet
<input checked="" type="checkbox"/>	part	contentDetails
<input checked="" type="checkbox"/>	maxResults	50
<input checked="" type="checkbox"/>	key	AlzaSyBLiRfT-3tSa3wrWQw8BijUnMNyqRI6Vzc
<input checked="" type="checkbox"/>	playlistId	PLjCw5iaIPklOwsra0hFvwLUC3Zr2HeyxX
<input checked="" type="checkbox"/>	pageToken	EAAajgFQVDpDREipRUVKQ1FUQkVNRFF3T1R...

Body Cookies Headers (13) Test Results Status: 200 OK Time: 396 ms Size: 77.28 KB Save as example

Pretty Raw Preview Visualize JSON

```
6 {
7   "kind": "youtube#playlistItem",
8   "etag": "HlpQa-ve02Q37zDEghT6APnITBY",
9   "id": "UEXqQ3c1aWfPUGtJT3dzcmEwaEZ2d0xVQzNacjJIZXl4WC5CQkEwRDA0MDkwNUM2MDY1",
10  "snippet": {
11    "publishedAt": "2022-04-06T12:26:04Z",
12    "channelId": "UCPqrEgBEHVj4vDITrC1NQIw",
13    "title": "Mother and Wife - English Conversation Practice - Improve Speaking Skills",
14    "description": "There are many daily conversations for beginners to practice, you will improve your listening and speaking skills when you practice with this video.
    \n=====
    \nThanks For Watching! Please Like, Share & Comment
```

4. DB 덤프 파일

```
-- MySQL dump 10.13  Distrib 8.0.36, for Win64 (x86_64)
--
-- Host: j10b107.p.ssafy.io    Database: teddybear
--
-- Server version      8.3.0

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!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=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
```

```

-- Table structure for table `bookmark_video`
--

DROP TABLE IF EXISTS `bookmark_video`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `bookmark_video` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `user_id` bigint NOT NULL,
  `video` bigint NOT NULL,
  PRIMARY KEY (`id`),
  KEY `FKmly48yl4y6ej83r1xds4ddpcs` (`video`),
  CONSTRAINT `FKmly48yl4y6ej83r1xds4ddpcs` FOREIGN KEY (`vide
) ENGINE=InnoDB AUTO_INCREMENT=14 DEFAULT CHARSET=utf8mb4 COL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `bookmark_word`
--

DROP TABLE IF EXISTS `bookmark_word`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `bookmark_word` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `user_id` bigint DEFAULT NULL,
  `word` bigint NOT NULL,
  PRIMARY KEY (`id`),
  KEY `FKkje87nbm1sbnpc4smom3q82g9` (`word`),
  CONSTRAINT `FKkje87nbm1sbnpc4smom3q82g9` FOREIGN KEY (`word
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8mb4 COLL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `category`
--

DROP TABLE IF EXISTS `category`;

```

```

/*!40101 SET @saved_cs_client      = @@character_set_client */
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `category` (
  `category_seq` int NOT NULL AUTO_INCREMENT,
  `category_name` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`category_seq`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `daily_word`
--

DROP TABLE IF EXISTS `daily_word`;
/*!40101 SET @saved_cs_client      = @@character_set_client */
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `daily_word` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `eng` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  `kor` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  `part` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  `tier` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  `word_id` bigint DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=82981 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `laundry_entity`
--

DROP TABLE IF EXISTS `laundry_entity`;
/*!40101 SET @saved_cs_client      = @@character_set_client */
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `laundry_entity` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `video_description` text COLLATE utf8mb4_unicode_ci NOT NULL
) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

`video_grade` varchar(5) COLLATE utf8mb4_unicode_ci NOT NUL
`video_id` varchar(255) COLLATE utf8mb4_unicode_ci NOT NULL
`video_playtime` varchar(50) COLLATE utf8mb4_unicode_ci NOT
`video_thumbnail` varchar(500) COLLATE utf8mb4_unicode_ci N
`video_title` varchar(500) COLLATE utf8mb4_unicode_ci NOT N
`video_transcript` text COLLATE utf8mb4_unicode_ci NOT NULL
`video_url` varchar(500) COLLATE utf8mb4_unicode_ci NOT NUL
PRIMARY KEY (`id`),
UNIQUE KEY `UK_l4uks0bs055rh3yb91h3107al` (`video_id`)
) ENGINE=InnoDB AUTO_INCREMENT=776 DEFAULT CHARSET=utf8mb4 CO
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `note`
--

DROP TABLE IF EXISTS `note`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `note` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `note` text COLLATE utf8mb4_unicode_ci NOT NULL,
  `note_date` datetime(6) NOT NULL,
  `user_id` bigint NOT NULL,
  `video` bigint NOT NULL,
  PRIMARY KEY (`id`),
  KEY `FKfg3j4yalrdb27ua16tov9ypfh` (`video`),
  CONSTRAINT `FKfg3j4yalrdb27ua16tov9ypfh` FOREIGN KEY (`vide
) ENGINE=InnoDB AUTO_INCREMENT=24 DEFAULT CHARSET=utf8mb4 COL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `script`
--

DROP TABLE IF EXISTS `script`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;

```



```

CREATE TABLE `script` (
  `script_seq` bigint NOT NULL AUTO_INCREMENT,
  `content` text COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_id` varchar(100) COLLATE utf8mb4_unicode_ci NOT NULL
  PRIMARY KEY (`script_seq`)
) ENGINE=InnoDB AUTO_INCREMENT=536281 DEFAULT CHARSET=utf8mb4
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `tier`
--

DROP TABLE IF EXISTS `tier`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `tier` (
  `level` int NOT NULL DEFAULT '1',
  `level_exp` bigint DEFAULT '0',
  `tier_exp` bigint DEFAULT '0',
  `tier_seq` bigint NOT NULL AUTO_INCREMENT,
  `user_seq` bigint DEFAULT NULL,
  `tier_name` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT
  PRIMARY KEY (`tier_seq`),
  UNIQUE KEY `UK_6ce9p1pnq837qljn5rpkxe5rg` (`user_seq`),
  CONSTRAINT `FKnhmmjmauohk651nyeo3qspf5m` FOREIGN KEY (`user_
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8mb4 COLL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `user_category`
--

DROP TABLE IF EXISTS `user_category`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `user_category` (
  `user_category_seq` bigint NOT NULL AUTO_INCREMENT,
  `economy` bigint DEFAULT '0',

```

```

`it` bigint DEFAULT '0',
`life` bigint DEFAULT '0',
`politics` bigint DEFAULT '0',
`society` bigint DEFAULT '0',
`sports` bigint DEFAULT '0',
`world` bigint DEFAULT '0',
`user_seq` bigint DEFAULT NULL,
PRIMARY KEY (`user_category_seq`),
UNIQUE KEY `UK_ssgf22pmvpx3mmxqtfb3enlu3` (`user_seq`),
CONSTRAINT `FK454v6vknodr6807kw80i0yxqe` FOREIGN KEY (`user_
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8mb4 COLL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `users`
--

DROP TABLE IF EXISTS `users`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `users` (
  `attendance` int NOT NULL DEFAULT '0',
  `user_seq` bigint NOT NULL AUTO_INCREMENT,
  `video_view_time` datetime(6) NOT NULL,
  `gender` varchar(10) COLLATE utf8mb4_unicode_ci DEFAULT NUL
  `birthday` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT
  `concern` text COLLATE utf8mb4_unicode_ci NOT NULL,
  `email` varchar(255) COLLATE utf8mb4_unicode_ci NOT NULL,
  `nickname` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT
  `refresh_token` varchar(255) COLLATE utf8mb4_unicode_ci DEF
  `role` enum('USER','GUEST') COLLATE utf8mb4_unicode_ci NOT
  PRIMARY KEY (`user_seq`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8mb4 COLL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `video`
--

```

```

DROP TABLE IF EXISTS `video`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `video` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `video_description` text COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_grade` varchar(5) COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_id` varchar(100) COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_thumbnail` varchar(500) COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_time` varchar(50) COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_title` varchar(500) COLLATE utf8mb4_unicode_ci NOT NULL,
  `video_url` varchar(500) COLLATE utf8mb4_unicode_ci NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `UK_k24kj8ek7wcb81i0elhhup34o` (`video_id`)
) ENGINE=InnoDB AUTO_INCREMENT=10058 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `video_category`
--

DROP TABLE IF EXISTS `video_category`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `video_category` (
  `video_category_seq` bigint NOT NULL AUTO_INCREMENT,
  `category` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  `video_id` varchar(255) COLLATE utf8mb4_unicode_ci DEFAULT NULL,
  PRIMARY KEY (`video_category_seq`)
) ENGINE=InnoDB AUTO_INCREMENT=8212 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `watch_video`
--

DROP TABLE IF EXISTS `watch_video`;

```

```

/*!40101 SET @saved_cs_client      = @@character_set_client */
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `watch_video` (
  `id` bigint NOT NULL AUTO_INCREMENT,
  `user_id` bigint NOT NULL,
  `video_watched` bit(1) NOT NULL,
  `video` bigint NOT NULL,
  PRIMARY KEY (`id`),
  KEY `FKg3wsnoyj63yukjusduo5twgtc` (`video`),
  CONSTRAINT `FKg3wsnoyj63yukjusduo5twgtc` FOREIGN KEY (`vide
) ENGINE=InnoDB AUTO_INCREMENT=75 DEFAULT CHARSET=utf8mb4 COL
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `word`
--

DROP TABLE IF EXISTS `word`;
/*!40101 SET @saved_cs_client      = @@character_set_client */
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `word` (
  `tier` varchar(2) COLLATE utf8mb4_unicode_ci NOT NULL,
  `id` bigint NOT NULL AUTO_INCREMENT,
  `part` varchar(20) COLLATE utf8mb4_unicode_ci NOT NULL,
  `eng` varchar(50) COLLATE utf8mb4_unicode_ci NOT NULL,
  `kor` varchar(255) COLLATE utf8mb4_unicode_ci NOT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=8582 DEFAULT CHARSET=utf8mb4 C
/*!40101 SET character_set_client = @saved_cs_client */;

```