

포팅 메뉴얼

1. 개발 환경

[프론트]

- Flutter: 3.19.3
- Dart: 3.3.1
- IntelliJ: 2023.3.2

[백엔드]

- jdk: 17
- Springboot: 3.2.3
- Mysql: 8.3.0
- Redis: 7.2.4
- AWS S3
- IntelliJ: 2023.3.2

2. 설정 파일(.ignore)

[프론트]

- .env

```
APP_KEY =  
REST_API_KEY =
```

[백엔드]

- **application.yml**

```
spring:  
  profiles:  
    include: secret  
  servlet:  
    multipart:  
      max-file-size: 50MB  
      max-request-size: 50MB  
  jpa:  
    properties:  
      hibernate:  
        format_sql: true  
        default_batch_fetch_size: 1000 # select 배치 조회 크기  
  
  batch:  
    job:  
      enabled: false # 애플리케이션 실행 시 job이 실행되지 않도록하기 위  
  
  logging:  
    level:  
      org.hibernate.SQL: debug  
      org.hibernate.type: trace  
  
  servlet:  
    multipart:  
      max-file-size: 20MB  
      max-request-size: 20MB  
  
  management:
```

```
endpoints:
  web:
    exposure:
      include: "*"

```

- **application-secret.yml**

```
spring:
  data:
    redis:
      host: redis
      port: 7368
      password: <redis 비밀번호>
  datasource:
    url: jdbc:mysql://walkingpet.co.kr:3308/walkingpet?serverTi
    username: B102_walkingpet
    password: <db 비밀번호>
    driver-class-name: com.mysql.cj.jdbc.Driver
    hikari:
      pool-name: jpa-hikari-pool
      maximum-pool-size: 20
      jdbc-url: ${spring.datasource.url}
      username: ${spring.datasource.username}
      password: ${spring.datasource.password}
      driver-class-name: ${spring.datasource.driver-class-name}
      data-source-properties:
        rewriteBatchedStatements: true
  jwt:
    secret-key: <jwt 시크릿 키>
    access-token-expiration-time: 1209600000
    # access-token-expiration-time: 860000000Q
    refresh-token-expiration-time: 12096000000
    # refresh-token-expiration-time: 12096000000

```

```
cloud:
  aws:
    credentials:
      accessKey: <aws 액세스키>
      secretKey: <aws 시크릿키>
    region:
      static: ap-northeast-2
    stack:
      auto: false
    s3:
      bucket: walkingpet.bucket
```

3. 환경 설정

[프론트]

- Flutter

```
flutter pub get
flutter clean build
flutter app build #aab 파일 생성
flutter build apk #apk 파일 생성
```

[백엔드]

Jenkins 파이프라인

```
pipeline {
  agent any

  environment {
    CONTAINER_NAME = "walkingpet-backend-container"
```

```

    IMAGE_NAME = "walkingpet-backend-image"
}

stages {
    stage('Git Clone') {
        steps {
            git branch: 'be', credentialsId: 'gitlab-token',
        }
    }
    stage('secret.yml download') {
        steps {
            withCredentials([file(credentialsId: 'application',
            script {
                def destinationFile = 'Backend/WalkingPet/secret.yml'
                // Create destination file if it doesn't exist
                writeFile file: destinationFile, text: ''
                // Copy dbConfigFile to destinationFile
                sh "cp $dbConfigFile $destinationFile"
            }
            }
        ]
    }
    stage('serviceAccountKey download') {
        steps {
            withCredentials([file(credentialsId: 'serviceAccountKey',
            script {
                def destinationFile = 'Backend/WalkingPet/serviceAccountKey.json'
                // Create destination file if it doesn't exist
                writeFile file: destinationFile, text: ''
                // Copy dbConfigFile to destinationFile
                sh "cp $dbConfigFile $destinationFile"
            }
            }
        ]
    }
    stage('Build') {

```

```

        steps {
            dir('./Backend/WalkingPet'){
                sh '''
                chmod +x ./gradlew
                ./gradlew clean build -x test
                '''
            }
        }
    }
    stage('SonarQube analysis') {
        steps{
            withSonarQubeEnv('Sonarqube'){
                dir('./Backend/WalkingPet') {
                    sh './gradlew sonarqube'
                }
            }
        }
    }
    stage('Docker delete') {
        steps {
            script {
                try {
                    // 컨테이너가 존재하면 삭제합니다.
                    sh "docker stop ${CONTAINER_NAME}"
                    sh "docker rm -f ${CONTAINER_NAME}"
                } catch (Exception e) {
                    // 컨테이너가 존재하지 않는 경우 에러가 발생할 수
                    echo "Docker container ${CONTAINER_NAME} does not exist"
                }

                try {
                    // 이미지가 존재하면 삭제합니다.
                    sh "docker image rm ${IMAGE_NAME}"
                } catch (Exception e) {
                    // 이미지가 존재하지 않는 경우 에러가 발생할 수
                    echo "Docker image ${IMAGE_NAME} does not exist"
                }
            }
        }
    }
}

```

```

    }
  }
}

post {
  success {
    sh 'echo "docker delete Success"'
  }
  failure {
    sh 'echo "docker delete Fail"'
  }
}

stage('Dockerizing'){
  steps{
    sh 'echo " Image Bulid Start"'
    sh """
      cd ./Backend/WalkingPet
      docker build -t ${IMAGE_NAME} .
    """
  }
  post {
    success {
      sh 'echo "Bulid Docker Image Success"'
    }
    failure {
      sh 'echo "Bulid Docker Image Fail"'
    }
  }
}

stage('Deploy') {
  steps {
    sh "docker run --name ${CONTAINER_NAME} -d -p 80"
  }
  post {
    success {

```



```

- /var/run/docker.sock:/var/run/docker.sock
- /home/ubuntu/jenkins-data:/var/jenkins_home
ports:
- "8180:8080"
user: root

mysql:
  image: mysql:latest
  container_name: mysql
  environment:
    MYSQL_ROOT_PASSWORD: <mysql root 비밀번호> # MySQL root 사용
    MYSQL_DATABASE: walkingpet # MySQL 데이터베이스 이름 (필요한 경
    MYSQL_USER: B102_walkingpet # MySQL 사용자 이름
    MYSQL_PASSWORD: <mysql 사용자 비밀번호> # MySQL 사용자 rhythm
  command: --character-set-server=utf8mb4 --collation-server=
  ports:
    - "3308:3306" # MySQL 포트 (필요한 경우 변경
  volumes:
    - /path/to/mysql-data:/var/lib/mysql
redis:
  image: redis:latest
  container_name: redis
  ports:
    - "6379:6379"
  environment:
    - REDIS_PASSWORD=<redis 비밀번호>

```

- 초기 데이터 세팅 - init.sql → **DB 덤프 파일**

```
src/main/resources/init.sql
```

4. 외부 API

[로그인]

- 카카오 로그인

- <https://developers.kakao.com/docs/latest/ko/kakaologin/flutter>

[지도]

- kakao map

- https://apis.map.kakao.com/android_v2/

[이미지]

- AWS S3

- https://aws.amazon.com/ko/?nc2=h_lg

[FCM]

- 알림

- <https://firebase.google.com/docs/cloud-messaging?hl=ko>