



몰룸?: 온라인 심리 상담 서비스

포팅 메뉴얼

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I. 개요

1. 프로젝트 개요

방탈출이 최근 취미로 떠오르고 있는 지금 당신도 방탈출에 관심이 있나요?
근데 테마가 너무 많아서 뭘 해야할 지 모르겠다고요?
테마는 정했는데 같이 갈 사람이 없다고요?

몰룸은 그러한 불편사항을 완화시켜주기 위해 탄생한 빅데이터 기반 방탈출 테마 추천 및 파티 매칭 서비스입니다. 몰룸과 함께라면, 당신의 방탈출 취미를 보다 재밌게 즐길 수 있습니다.

2. 프로젝트 사용 도구

이슈 관리 : JIRA
형상 관리 : Gitlab
커뮤니케이션 : Notion, Mattermost
디자인 : Figma
UCC : 모바비
CI/CD : Jenkins

3. 개발환경

Frontend

Node	20.15.0
TypeScript	4.9.5
React	18.3.1
Emotion	11.13.3
Storybook	8.2.9
Tanstack-Query	5.55.4
Zustand	4.5.5
stompjs	7.0.0
axios-mock-adapter	2.0.0

Backend

Java **openjdk version "17.0.11" 2024-04-16 LTS**

Spring Boot 3.3.2.

Hibernate 6.5.2

MySQL 8.0.32

Redis 7.4.0

MongoDB 7.0.14

Infra

AWS EC2 **Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1063-aws x86_64)**

Docker 27.2.0

Jenkins 2.475

NginX nginx/1.27.2

4. 외부 서비스

Google mail service : application.yml 에 해당 내용 있음

Firebase Realtime DB (back) : serviceAccountKey.json 에 해당 내용 있음

Redis cloud : application.yml 에 해당 내용 있음

Firebase Realtime DB (front) :

5. Gitignore 처리한 핵심 키들

React : .env (moreroom 폴더 하위)

Spring : application.yml, application-secret.yml

S11P21D206/.env

S11P21D206/bigdata/fastapi/.env

(\src\main\resources, 또는 classPath 에 위치)

II. 빌드

1. 환경변수 형태

.application.yml

spring:

application:

name: moreroom

datasource:

url: \${MYSQL_URL}

username: \${MYSQL_ROOT_USERNAME}

password: \${MYSQL_ROOT_PASSWORD}

driver-class-name: com.mysql.cj.jdbc.Driver

jpa:

database-platform:

org.hibernate.dialect.MySQLDialect

hibernate:

naming:

physical-strategy:

org.hibernate.boot.model.naming.PhysicalNamingStrategyStandardImpl

mail:

host: smtp.gmail.com

port: 587

username: \${MAIL_USERNAME}

password: \${MAIL_PASSWORD}

properties:

mail:

smtp:

auth: true

starttls:

enable: true

required: true

connectiontimeout: 5000

timeout: 5000

writetimeout: 5000

auth-code-expriation-millis: 1800000

data:

redis:

host: \${REDIS_HOST}

port: \${REDIS_PORT}

password: \${REDIS_PASSWORD}

mongodb:

uri: \${MONGODB_URL}

rabbitmq:

username: \${RABBITMQ_DEFAULT_USER}

password: \${RABBITMQ_DEFAULT_PASS}

port: 5672

host: rabbitmq

fastAPI:

URL: \${FAST_API_URL}

ONE_URL: \${FAST_API_ONE_URL}

server:

servlet:

session:

cookie:

http-only: true

path: /

secure: true

same-site: none

max-age: 86400 # 하루

domain: \${SERVER_DOMAIN}

timeout: 90m

context-path: /\${CONTEXT_PATH}

port: \${BACKEND_PORT}

2.빌드하기

CI/CD

Docker-compose.yml

version: "3.3"

services:

nginx:

image: \${DOCKER_IMAGE}:\${DOCKER_TAG_FE}-latest

container_name: \${DOCKER_TAG_FE}

ports:

- "80:80"
- "443:443"

environment:

- DOCKER_TAG_BE=\${DOCKER_TAG_BE}
- BACKEND_PORT=\${BACKEND_PORT}
- SERVER_NAME=\${SERVER_NAME}
- CONTEXT_PATH=\${CONTEXT_PATH}
- REACT_APP_API_BASE_URL=\${REACT_APP_API_BASE_URL}
- REACT_APP_KAKAOMAP_KEY=\${REACT_APP_KAKAOMAP_KEY}
- REACT_APP_CHAT_SOCKET=\${REACT_APP_CHAT_SOCKET}
- REACT_APP_CHAT_DEST=\${REACT_APP_CHAT_DEST}
- DOCKER_TAG_FASTAPI=\${DOCKER_TAG_FASTAPI}
- TZ=Asia/Seoul

volumes:

- /home/ubuntu/data/certbot/conf:/etc/letsencrypt
- /home/ubuntu/data/certbot/www:/var/www/certbot

networks:

- backend-network

depends_on:

- \${DOCKER_TAG_BE}
- \${DOCKER_TAG_FASTAPI}

certbot:

image: certbot/certbot

container_name: certbot

volumes:

- /home/ubuntu/data/certbot/conf:/etc/letsencrypt

```
- /home/ubuntu/data/certbot/www:/var/www/certbot
depends_on:
  - nginx
entrypoint: "/bin/sh -c 'trap exit TERM; while ;; do certbot renew --webroot -w
/var/www/certbot sleep 60d & wait $$(!); done;'"
```

springboot:

image: \${DOCKER_IMAGE}:\${DOCKER_TAG_BE}-latest

container_name: \${DOCKER_TAG_BE}

environment:

- PROFILES_ACTIVE=\${PROFILES_ACTIVE}
- BACKEND_PORT=\${BACKEND_PORT}
- MYSQL_URL=\${MYSQL_URL}
- MYSQL_ROOT_USERNAME=\${MYSQL_ROOT_USERNAME}
- MYSQL_ROOT_PASSWORD=\${MYSQL_ROOT_PASSWORD}
- REDIS_HOST=\${REDIS_HOST}
- REDIS_PORT=\${REDIS_PORT}
- REDIS_PASSWORD=\${REDIS_PASSWORD}
- MONGODB_URL=\${MONGODB_URL}
- MAIL_USERNAME=\${MAIL_USERNAME}
- MAIL_PASSWORD=\${MAIL_PASSWORD}
- CONTEXT_PATH=\${CONTEXT_PATH}
- RABBITMQ_DEFAULT_USER=\${RABBITMQ_DEFAULT_USER}
- RABBITMQ_DEFAULT_PASS=\${RABBITMQ_DEFAULT_PASS}
- MONGO_INITDB_ROOT_USERNAME=\${MONGO_INITDB_ROOT_USERNAME}
- MONGO_INITDB_ROOT_PASSWORD=\${MONGO_INITDB_ROOT_PASSWORD}
- FAST_API_URL=\${FAST_API_URL}
- SERVER_DOMAIN=\${SERVER_DOMAIN}
- FAST_API_ONE_URL=\${FAST_API_ONE_URL}
- TZ=Asia/Seoul

expose:

- \${BACKEND_PORT}

networks:

- backend-network

depends_on:

- mysql
- redis
- mongodb
- rabbitmq

fastapi:

image: \${DOCKER_IMAGE}:\${DOCKER_TAG_FASTAPI}-latest

container_name: \${DOCKER_TAG_FASTAPI}

environment:

- TZ=Asia/Seoul
- MYSQL_HOST=\${MYSQL_HOST}
- MYSQL_USER=\${MYSQL_USER}
- MYSQL_PW=\${MYSQL_PW}
- MYSQL_DB=\${MYSQL_DB}
- MYSQL_PORT=\${MYSQL_PORT}
- MONGO_HOST=\${MONGO_HOST}
- MONGO_PORT=\${MONGO_PORT}
- MONGO_USER=\${MONGO_USER}
- MONGO_PW=\${MONGO_PW}
- HOST=\${HOST}
- USER=\${USER}
- PASSWORD=\${PASSWORD}
- DATABASE=\${DATABASE}
- PORT=\${PORT}

expose:

- "5000:5000"

networks:

- backend-network

depends_on:

- mysql
- mongodb

rabbitmq:

container_name: rabbitmq

image: rabbitmq:3-management-alpine

user: "1001:1001"

init: true

volumes:

- /home/ubuntu/rabbitmq/data:/var/lib/rabbitmq
- /home/ubuntu/rabbitmq/etc:/etc/rabbitmq
- /home/ubuntu/rabbitmq/logs:/var/log/rabbitmq

ports:

- "5672:5672" # AMQP 프로토콜
- "15672:15672" # 관리 UI
- "61613:61613" # STOMP 프로토콜
- "15674:15674" # Web STOMP (웹소켓)

environment:

- RABBITMQ_DEFAULT_USER=\${RABBITMQ_DEFAULT_USER}
- RABBITMQ_DEFAULT_PASS=\${RABBITMQ_DEFAULT_PASS}

networks:

- backend-network

mysql:

image: mysql:8.0.32

container_name: mysql-con

environment:

- MYSQL_ROOT_PASSWORD=\${MYSQL_ROOT_PASSWORD}
- TZ=Asia/Seoul

volumes:

- mysql-vol:/var/lib/mysql

ports:

- "\${MYSQL_BINDING_PORT}:3306"

networks:

- backend-network

command: --lower_case_table_names=1

redis:

image: redis:latest

container_name: my-redis

environment:

- TZ=Asia/Seoul

volumes:

- redis_data:/data
- \${REDIS_DEFAULT_CONFIG_FILE}:/usr/local/etc/redis/redis.conf

ports:

- "\${REDIS_BINDING_PORT}:6379"

command: redis-server /usr/local/etc/redis/redis.conf

networks:

- backend-network

mongodb:

image: mongo:latest

container_name: mongodb-con

volumes:

- mongo-vol:/data/db

environment:

- TZ=Asia/Seoul
- MONGO_INITDB_ROOT_USERNAME=\${MONGO_INITDB_ROOT_USERNAME}
- MONGO_INITDB_ROOT_PASSWORD=\${MONGO_INITDB_ROOT_PASSWORD}

ports:

- "\${MONGO_BINDING_PORT}:27017"

networks:

- backend-network

volumes:

mysql-vol:

external: true

redis_data:

external: true

mongo-vol:

external: true

networks:

backend-network:

name: backend-network

driver: bridge

Dockerfile (nginx)

```
FROM nginx:alpine
```

```
LABEL authors="LEE JIHYE"
```

```
COPY ./frontend/moreroom/build /usr/share/nginx/html
```

```
COPY nginx.conf.template /etc/nginx/nginx.conf.template
```

```
EXPOSE 80
```

```
CMD ["/bin/sh", "-c", "envsubst '$DOCKER_TAG_BE $BACKEND_PORT $SERVER_NAME  
$CONTEXT_PATH' < /etc/nginx/nginx.conf.template > /etc/nginx/nginx.conf && nginx -g  
'daemon off;']
```

Dockerfile (fastAPI)

```
FROM python:3.10.8-slim
```

```
WORKDIR /code
```

```
COPY requirements.txt .
```

```
RUN pip install --no-cache-dir --upgrade -r requirements.txt
```

```
COPY . .
```

```
EXPOSE 5000
```

```
CMD ["uvicorn", "app:app", "--host", "0.0.0.0", "--port", "5000"]
```

Nginx.conf.template

```
events {
```

```
    worker_connections 1024;
```

```
}
```

```
http {
```

```
    include /etc/nginx/mime.types;
```

```
    default_type application/octet-stream;
```

```
sendfile on; # 로컬에 저장된 파일 전송

gzip on;
gzip_comp_level 5;
gzip_types text/plain text/css application/json application/javascript text/xml
application/xml application/xml+rss text/javascript;

server {
    listen 80;
    server_name ${SERVER_NAME};

    # Let's Encrypt 인증서 발급을 위한 설정
    location /.well-known/acme-challenge/ {
        allow all;
        root /var/www/certbot;
    }

    # HTTP 를 HTTPS 로 리다이렉트
    location / {
        return 301 https://$host$request_uri;
    }
}

server {
    listen 443 ssl;
    server_name ${SERVER_NAME};
    server_tokens off;

    ssl_certificate /etc/letsencrypt/live/${SERVER_NAME}/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/${SERVER_NAME}/privkey.pem;
    include /etc/letsencrypt/options-ssl-nginx.conf;
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;

    # 보안 헤더
```

```
add_header Strict-Transport-Security "max-age=31536000; includeSubDomains"
always;
add_header X-Content-Type-Options nosniff;
add_header X-Frame-Options DENY;
add_header X-XSS-Protection "1; mode=block";
# add_header Content-Security-Policy "default-src 'self'; script-src 'self' 'unsafe-
inline'";
add_header Referrer-Policy "no-referrer-when-downgrade";

# Spring Boot 외부 연결
location /${CONTEXT_PATH}/ {
    proxy_pass <http://${DOCKER_TAG_BE}:${BACKEND_PORT}>;
    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 X-Forwarded-Proto $scheme;
}

# FAST API 외부 연결
location /${CONTEXT_PATH}/fastapi/ {
    proxy_pass <http://fastapi:5000>;
    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 X-Forwarded-Proto $scheme;
}

# 소켓 설정
location /${CONTEXT_PATH}/ws {
    proxy_pass <http://${DOCKER_TAG_BE}:${BACKEND_PORT}>;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
    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 X-Forwarded-Proto $scheme;
        proxy_read_timeout 20m;
    }

    location / {
        root /usr/share/nginx/html;
        index index.html index.htm;
        try_files $uri $uri/ /index.html;
    }
}
```

Jenkins Pipeline

```
pipeline {
    agent any
    environment {
        DOCKERHUB_CREDENTIALS_ID = 'dockerhub-jenkins'
        DOCKERHUB_CREDENTIALS = credentials('dockerhub-jenkins')
        DOCKER_IMAGE = 'jihye9807/more-room'

        DOCKER_TAG_FE = "nginx"
        DOCKER_TAG_BE = "springboot"
        DOCKER_TAG_FASTAPI = "fastapi"
        backDockerImage = ""
        frontDockerImage = ""
        fastapiDockerImage = ""

        FIREBASE_CONFIG = credentials('firebase-config')
    }
    tools {
        jdk 'JDK 17'
        nodejs 'nodejs-20.17.0'
    }
}
```

```
stages {
  stage('GitLab-Clone') {
    steps {
      git branch: 'develop', credentialsId: '4bb2afb3-351a-41f4-aaa9-dbbf0756fe91',
url: '<https://lab.ssafy.com/s11-bigdata-recom-sub1/S11P21D206>'
    }
  }
  stage('Build') {
    parallel {
      stage('BE-Build') {
        steps {
          echo "BE-Build stage: 백엔드 빌드"
          dir("./backend") {
            sh "chmod +x ./gradlew"
            sh "./gradlew clean build -x test --stacktrace"
          }
        }
      }
      stage('FE-Build') {
        steps {
          echo "FE-Build stage: 프론트엔드 빌드"
          dir("./frontend/moreroom") {
            sh 'npm install'
            sh 'CI=false npm run build'
          }
        }
      }
    }
  }
  stage('Build-Docker-Images') {
    parallel {
      stage('BE-Docker-Build') {
        steps {
          echo "BE Docker Build"
          dir('./backend') {
```



```
        script {
            backDockerImage =
docker.build("${DOCKER_IMAGE}:${DOCKER_TAG_BE}-latest")
        }
    }
}
stage('FE-Docker-Build') {
    steps {
        echo "FE Docker Build"
        script {
            frontDockerImage =
docker.build("${DOCKER_IMAGE}:${DOCKER_TAG_FE}-latest")
        }
    }
}
stage('FastAPI-Docker-Build') {
    steps {
        echo "FastAPI Docker Build"
        dir('./bigdata/fastapi') {
            script {
                fastapiDockerImage =
docker.build("${DOCKER_IMAGE}:${DOCKER_TAG_FASTAPI}-latest")
            }
        }
    }
}
}
stage('Push-Docker-Images') {
    steps {
        script {
            docker.withRegistry("", env.DOCKERHUB_CREDENTIALS_ID) {
                backDockerImage.push()
                frontDockerImage.push()
            }
        }
    }
}
```

```
        fastapiDockerImage.push()
        backDockerImage.push("${DOCKER_TAG_BE}-${env.BUILD_NUMBER}")
        frontDockerImage.push("${DOCKER_TAG_FE}-${env.BUILD_NUMBER}")
        fastapiDockerImage.push("${DOCKER_TAG_FASTAPI}-${
${env.BUILD_NUMBER}}")
    }
}
}
}
stage('Deploy') {
    steps {
        echo 'Deploy stage'

        withCredentials([file(credentialsId: 'docker-env-file', variable:
'DOCKER_ENV_FILE')]) {
            sh '''
                # Secret File 을 .env 로 복사
                # .env 파일의 권한을 600 으로 설정
                cp ${DOCKER_ENV_FILE} .env
                chmod 600 .env
                # 컨테이너 재시작, 기존 데이터 유지
                docker compose up -d
            '''
        }
    }
}
stage('Cleanup') {
    steps {
        echo 'cleanup docker image'
        script {
            sh "docker image prune -f"
            [env.DOCKER_TAG_BE, env.DOCKER_TAG_FE,
env.DOCKER_TAG_FASTAPI].each { service ->
                sh "docker rmi ${DOCKER_IMAGE}:${service}-${env.BUILD_NUMBER} ||
true"
```

```

    }
  }
}
}
}
post {
  always {
    echo 'I complete CI/CD'
  }
  success{
    echo 'I success CI/CD'
    script {
      def Author_ID = sh(script: "git show -s --pretty=%an", returnStdout:
true).trim()
      def Author_Name = sh(script: "git show -s --pretty=%ae", returnStdout:
true).trim()
      mattermostSend (color: 'good',
      message: "빌드 성공: ${env.JOB_NAME} #${env.BUILD_NUMBER} by
${Author_ID}(${Author_Name})\n(<${env.BUILD_URL}|Details>)",
      endpoint:
'<https://meeting.ssafy.com/hooks/6jwxhq8653b19pewoahacg1hwy>',
      channel: 'cicd'
    )
  }
}
failure{
  echo 'I fail CI/CD'
  script {
    def Author_ID = sh(script: "git show -s --pretty=%an", returnStdout:
true).trim()
    def Author_Name = sh(script: "git show -s --pretty=%ae", returnStdout:
true).trim()
    mattermostSend (color: 'danger',
    message: "빌드 실패: ${env.JOB_NAME} #${env.BUILD_NUMBER} by
${Author_ID}(${Author_Name})\n(<${env.BUILD_URL}|Details>)",

```

```
        endpoint:  
'<https://meeting.ssafy.com/hooks/6jwxhq8653b19pewoahacg1hwy>',  
        channel: 'cicd'  
    )  
}  
}  
}  
}
```

3.6. DB 접속 정보 등 프로젝트(ERD) 활용되는 주요 계정 및 프로퍼티가 정의된 파일 목록

- .env