EduFocus

포팅 메뉴얼

목차

1. 사용 도구

- 이슈 관리 : Jira
- 형상 관리 : GitLab
- 커뮤니케이션 : Notion, MatterMost
- 디자인 : Figma
- CI/CD : Jenkins

2. 개발 환경

- SrpingBoot : 3.2.7
- JVM : 22.0.1
- react : 18.3.1
- axios : 1.7.2
- tanstack-query : 5.49.2
- stompjs 7.0.0
- Visual Studio Code : 1.91.1
- Intellij : 2024.1.4
- EC2 Server : Ubuntu 20.04.6 LTS
- DB : mySQL 8.0.38
- Reddis : 7.2.5
- Rabbitmq : 3.13.6

3. 환경변수

.env.local :
VITE_API_URL=https://i11a701.p.ssafy.io/api
VITE_CHAT_URL=wss://i11a701.p.ssafy.io/api/ws
VITE_ROOM_URL=wss://i11a701.p.ssafy.io/room
VITE_STATIC_URL=https://i11a701.p.ssafy.io/

```
spring.env
DATA_SOURCE_URL='jdbc:mysql://edufocus-db:3306/edufocus?allowPublicKeyRetrieval=true&useSSL=false'
SALT='aosdinvodsifosAWNPlsdkfj26sxdASIN!3znvzlxk1dnfzlsd89f@sdkfnzlsdkf'
CONTEXT_PATH=/api
USER_NAME=ssafy
USER_PASSWORD=ssafy
RABBITMQ_HOST=rabbitmq
RABBITMQ_PORT=5672
RABBITMQ_USERNAME=guest
RABBITMQ_PASSWORD=guest
LIVEKIT_API_KEY=APIXCEVwUVJ5q24
LIVEKIT_API_SECRET=ceTkSFoa8lhYbVru7t5i4meqgFElFElwhQPtFIrm1qI
IMAGE_PATH=/static
MAIL_NAME='edufocus.kor@gmail.com'
MAIL_PASSWORD='eooiqiijniwzonws'
MAIL_PORT=587
REDIS_HOST='edufocus-redis'
REDIS_PORT=6379


db.env
MYSQL_USER=ssafy
MYSQL_PASSWORD=ssafy
MYSQL_ROOT_PASSWORD=root
MYSQL_DATABASE=edufocus

mq.env
RABBITMQ_DEFAULT_USER: "guest"
RABBITMQ_DEFAULT_PASS: "guest"

docker-compose.yml
services:
  nginx:
```

```
    image: nginx
    container_name: nginx
    restart: unless-stopped
    extra_hosts:
      - host.docker.internal:host-gateway
    ports:
      - 80:80
      - 443:443
    networks:
      - nginx
    volumes:
      - /home/ubuntu/.config/nginx/conf.d:/etc/nginx/conf.d
      - /home/ubuntu/.config/nginx/log:/var/log/nginx
      - /home/ubuntu/.config/nginx/ssl:/etc/ssl
      - /home/ubuntu/fedufocus/frontend/dist:/app
      - /home/ubuntu/.data/edufocus/static:/edufocus/static
      - /home/ubuntu/.config/certbot/:/var/certbot

  edufocus-db:
    image: mysql
    container_name: edufocus_db
    restart: unless-stopped
    env_file:
      - db.env
    expose:
      - 3306
    volumes:
      - /home/ubuntu/.data/edufocus_db:/var/lib/mysql
      - /home/ubuntu/query:/query
    networks:
      - edufocus
    command:
      - --character-set-server=utf8mb4
      - --collation-server=utf8mb4_unicode_ci
```

```yaml
edufocus-server:
  container_name: edufocus_server
  build:
    context: .
    dockerfile: Dockerfile
  restart: unless-stopped
  env_file:
    - spring.env
  depends_on:
    - edufocus-db
    - edufocus-redis
  volumes:
    - /home/ubuntu/edufocus_build:/app
    - /home/ubuntu/.data/edufocus/static:/static
    - /home/ubuntu/edufocus/backend:/repo
  networks:
    - nginx
    - edufocus
  expose:
    - 8080

rabbitmq:
  container_name: edufocus_rabbitmq
  restart: unless-stopped
  image: rabbitmq:3.13.6-management-alpine
  volumes:
    - rabbitmq_volume_config:/etc/rabbitmq/
    - rabbitmq_volume_data:/var/lib/rabbitmq/
    - rabbitmq_volume_log:/var/log/rabbitmq/
  environment:
    - RABBITMQ_DEFAULT_USER=guest
    - RABBITMQ_DEFAULT_PASS=guest
  networks:
    - nginx
    - edufocus
```

```yaml
    expose:
      - 5672
      - 15672
      - 61613

  edufocus-redis:
    container_name: edufocus_redis
    restart: unless-stopped
    image: redis:7.2.5-alpine
    command: redis-server /usr/local/conf/redis.conf
    volumes:
      - /home/ubuntu/.config/redis:/usr/local/conf/
    networks:
      - edufocus
    expose:
      - 6379

  jenkins:
    container_name: jenkins
    image: jenkins/jenkins:jdk17
    restart: unless-stopped
    depends_on:
      - edufocus-server
    environment:
      - DOCKER_CERT_PATH=/certs/client
    networks:
      - edufocus
    ports:
      - 9093:8080
    volumes:
      - /home/ubuntu/.config/jenkins/home:/var/jenkins_home
      - /home/ubuntu/.config/jenkins/certs:/certs/client:ro

volumes:
  rabbitmq_volume_config:
```

```
  rabbitmq_volume_data:
  rabbitmq_volume_log:


networks:
  nginx:
    name: nginx
    driver: bridge
  edufocus:
    name: edufocus
    driver: bridge
```

4. 배포

Nginx 설정
```
server {
  listen 80;
  listen [::]:80;

  server_name i11a701.p.ssafy.io;
  server_tokens off;

  location ~ /.well-known/acme-challenge {
    allow all;
    root /var/www/certbot;
  }

  location / {
    return 301 https://$host$request_uri;
  }
}

server {
```

```
listen 443 ssl;
listen [::]:443 ssl;


server_name i11a701.p.ssafy.io;
server_tokens off;


ssl_certificate /var/certbot/conf/live/i11a701.p.ssafy.io/fullchain.pem;
ssl_certificate_key /var/certbot/conf/live/i11a701.p.ssafy.io/privkey.pem;


location /api/ {
  proxy_pass http://edufocus-server:8080;
  proxy_set_header Host $host;
  proxy_set_header Upgrade $http_upgrade;
  proxy_set_header Connection upgrade;
  proxy_intercept_errors on;
}


location /mqweb/ {
  proxy_pass http://rabbitmq:15672;
  proxy_set_header Host $host;
  proxy_set_header Upgrade $http_upgrade;
  proxy_set_header Connection upgrade;
  proxy_intercept_errors on;
}


location /mq/ {
  proxy_pass http://rabbitmq:5672;
  proxy_set_header Host $host;
  proxy_set_header Upgrade $http_upgrade;
  proxy_set_header Connection upgrade;
  proxy_intercept_errors on;
}


location /mqs/ {
```

```
    proxy_pass http://rabbitmq:61613;
    proxy_set_header Host $host;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection upgrade;
    proxy_intercept_errors on;
}

location /static/ {
    alias /edufocus/static/;
}

location / {
    root /app/;
    try_files $uri $uri/ /index.html;
}

location /room/ {
    rewrite ^/room(.*) $1 break;
    proxy_pass http://host.docker.internal:7880;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "Upgrade";
    proxy_set_header Host $host;
}

location /rtmp/ {
    rewrite ^/rtmp(.*) $1 break;
    proxy_pass http://host.docker.internal:1945;
    proxy_set_header Host $host;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection upgrade;
    proxy_intercept_errors on;
}

location /whip/ {
```

```
    rewrite ^/whip(.*) $1 break;

    proxy_pass http://host.docker.internal:8080;

    proxy_set_header Host $host;

    proxy_set_header Upgrade $http_upgrade;

    proxy_set_header Connection upgrade;

    proxy_intercept_errors on;

}


location /dashboard/ {

    rewrite ^/dashboard(.*) $1 break;

    proxy_pass http://host.docker.internal:5000;

    proxy_set_header Host $host;

    proxy_set_header Upgrade $http_upgrade;

    proxy_set_header Connection upgrade;

    proxy_intercept_errors on;

}


location /room/health/caddy/ {

    return 200 'OK';

}


location /grafana {

    rewrite ^/grafana(.*) $1 break;

    proxy_pass http://host.docker.internal:3000;

    proxy_set_header Host $host;

    proxy_set_header Origin https://i11a701.p.ssafy.io;

    proxy_set_header Upgrade $http_upgrade;

    proxy_set_header Connection upgrade;

    proxy_intercept_errors on;

}


location /minio {

    rewrite ^/minio(.*) $1 break;

    proxy_pass http://host.docker.internal:9100;

    proxy_set_header Host $host;
```

```
    proxy_set_header Origin https://i11a701.p.ssafy.io;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection upgrade;
    proxy_intercept_errors on;
  }


}
```

5. CI/CD 구축

jenkins 설정

```
pipeline {
    agent any
    tools {
        gradle 'gradle'
    }
    environment {
        CONTEXT_PATH = '/api'
        LIVEKIT_API_KEY = 'APIXCEVwUVJ5q24'
        LIVEKIT_API_SECRET = 'ceTkSFoa8lhYbVru7t5i4meqgFElFElwhQPtFIrm1ql'
        SALT =
'safy-screte-key-20240404-ssafy-screte-key-20240404-ssafy-screte-key-20240404'
        DATA_SOURCE_URL = 'jdbc:mysql://edufocus-db:3306/edufocus'
        USER_NAME = 'root'
        USER_PASSWORD = 'root'
        RABBITMQ_HOST = 'rabbitmq'
        RABBITMQ_PORT = 5672
        RABBITMQ_USERNAME = 'guest'
        RABBITMQ_PASSWORD = 'guest'
        IMAGE_PATH = '/static'
        MAIL_NAME = 'gic3dev@gmail.com'
        MAIL_PASSWORD= 'fgppzwyznalrvriy'
        MAIL_PORT = 587
        REDIS_HOST = 'edufocus-redis'
```

```
        REDIS_PORT = 6379
        REDIS_PASSWORD = 'ssafyroot'
    }
    stages {
        stage('Clone') {
            steps {
                echo 'Start cloning repository...'
                git branch: 'backend', credentialsId: 'jungmin-uwp', url:
'https://lab.ssafy.com/s11-webmobile1-sub2/S11P12A701.git'
                echo 'Clone finished!'
            }
        }
        stage('Build') {
            steps {
                dir('backend') {
                    sh 'chmod +x gradlew'
                    sh './gradlew clean build'
                }
            }
        }
        stage('Deploy') {
            steps {
                sshagent(credentials: ['aws_key']) {
                    sh '''
                    ssh -o StrictHostKeyChecking=no ubuntu@i11a701.p.ssafy.io "echo 'Connected
to server'"
                    scp
/var/jenkins_home/workspace/gitlab-edufoucs/backend/build/libs/edufocus-0.0.1-SNAPSHO
T.jar ubuntu@i11a701.p.ssafy.io:/home/ubuntu/edufocus_build/app.jar
                    ssh -tt ubuntu@i11a701.p.ssafy.io sh ./deploy.sh
                    '''
                }
            }
        }
    }
```

```
    post {
        success {
            echo 'Pipeline succeeded!'
        }
        failure {
            echo 'Pipeline failed!'
        }
        always {
            echo 'Pipeline completed!'
        }
    }
}
```