**Docker-compose file main website**

version: ‘3.4’

services:

backend:

image: backend:v1

# Relative path to the backend project directory

environment:

SPRING\_DATASOURCE\_URL: jdbc:mysql://mysql-service:3306/quantumsoft

SPRING\_DATASOURCE\_USERNAME: root

SPRING\_DATASOURCE\_PASSWORD: root

ports:

- “8080:8080”

depends\_on:

- mysql-service

networks:

- mynetwork # Use the custom network

frontend:

image: frontend:v1 # Relative path to the frontend project directory

ports:

- “5502:80” # Change from 80 to 8081 to avoid conflict with port 80

depends\_on:

- backend

networks:

- mynetwork # Use the custom network

mysql-service:

image: mysql:8.0

environment:

MYSQL\_ROOT\_PASSWORD: “root”

MYSQL\_DATABASE: “quantomsoft” # Automatically creates the database

MYSQL\_PASSWORD: “root”

ports:

- “3306:3306”

volumes:

- mysql-data:/var/lib/mysql # Persist MySQL data across container restarts

networks:

- mynetwork # Use the custom network

networks:

mynetwork:

volumes:

mysql-data:

**Docker-compose file main website: V1**

version: '3.4'

services:

  backend:  
    build:  
      context: ./backend  # Path to your backend directory  
    environment:  
      SPRING\_DATASOURCE\_URL: jdbc:mysql://mysql-service:3306/quantumsoft  
      SPRING\_DATASOURCE\_USERNAME: root  
      SPRING\_DATASOURCE\_PASSWORD: root  
    ports:  
      - "8080:8080"  
    depends\_on:  
      - mysql-service:

condition: service\_healthy  
    networks:  
      - mynetwork

  frontend:  
    build:  
      context: ./frontend  # Path to your frontend directory  
    ports:  
      - "5502:80"  
    depends\_on:  
      - backend  
    networks:  
      - mynetwork

  mysql-service:  
    image: mysql:8.0  
    environment:  
      MYSQL\_ROOT\_PASSWORD: "root"  
      MYSQL\_DATABASE: "quantumsoft"  
      MYSQL\_PASSWORD: "root"  
    ports:  
      - "3306:3306"  
    volumes:  
      - mysql-data:/var/lib/mysql  
    networks:  
      - mynetwork

healthcheck:

test: ["CMD", "mysqladmin", "ping", "-h", "localhost"]

interval: 10s

retries: 5

start\_period: 30s

networks:  
  mynetwork:

volumes:  
  mysql-data: