Steps for Dockerizaton

1)Pull Docker Image

docker pull mysql:latest

2)create container connecting to mysql

docker run -d -p 3307:3306 --name mysqldb -e MYSQL\_ROOT\_PASSWORD=Elonmusk@12 -e MYSQL\_DATABASE=booksrepository -e MYSQL\_PASSWORD=Elonmusk@12 mysql

3)Create a Network

docker network create Book\_network

4)Connect Network to Container

docker network connect Book\_network mysgldb

5) Application properties

spring.jpa.hibernate.ddl-auto=update

spring.datasource.url=jdbc:mysql://\${MYSQL\_HOST:localhost}:\${MYSQL\_PORT:3306}/booksr epository

spring.datasource.username=\${MYSQL\_USER:root}

spring.datasource.password=\${MYSQL\_PASSWORD:Elonmusk@12}

server.port=8087

6)create package

mvn clean package

7)Create Docker file

FROM openjdk:11

ADD target/Book.jar Book.jar

**EXPOSE 8087** 

ENTRYPOINT ["java","-jar","Book.jar"]

8)Build image using docker file

docker build -t <imageName> .

9)run the container to start spring

docker run -p 8088:8087 --name book-container --net book\_network --env-file env.txt

book\_image

10)env.txt

MYSQL\_HOST=mysqldb

MYSQL\_USER=root

MYSQL\_PASSWORD=root

MYSQL\_PORT=3306

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To push to docker

1) login first

docker login

2)create a tag

docker tag book\_image\_v1 sheru123/bookrepo:book\_image\_1.0

3)push to repo

docker push sheru123/bookrepo:book\_image\_1.0

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To pull the docker image and run

1)docker pull sheru123/bookrepo:book\_image\_1.0

2) docker run -p 8088:8087 --name book-containers --net book\_network --env-file env.txt sheru123/bookrepo:book\_image\_1.0

