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ky aap mujh bata sakte he ki docker ka setup kese karna he apne system me kyu ki mujh spring boot project me use karna he docker ko

Jarur, main aapko Docker ko apne system me set up karne ke liye kuch steps bata sakta hu.

1. Sabse pehle aapko Docker Desktop ko download karna hoga. Aap Docker Desktop ko is link se download kar sakte hain: <https://www.docker.com/products/docker-desktop>

2. Download karne ke baad, Docker Desktop installer ko install karna hoga. Install karne ke liye, aapko installer ko double-click karna hoga aur instructions ko follow karna hoga.

3. Jab Docker Desktop installer install ho jaye, tab Docker Desktop application ko launch karna hoga. Ye aapke system tray me hoga.

4. Docker Desktop application ko launch karne ke baad, aapko terminal ya command prompt open karna hoga.

5. Terminal ya command prompt me, aapko Docker command-line interface (CLI) ko verify karna hoga. Aap ye command run karke verify kar sakte hain: `"docker --version"`

6. Ab aapko Dockerfile create karna hoga. Ye file, Docker ko aapke project ki environment aur dependencies ko create karne ke liye instructions provide karega. Ye file aapke project ke root directory me hona chahiye.

7. Dockerfile me, aapko base image ko define karna hoga. Ye image, Docker container ki base banana hai. Aapke project ke requirements ke hisab se, aap appropriate base image ko choose kar sakte hain.

8. Dockerfile me, aapko project ki dependencies ko install karne ke instructions bhi provide karna hoga.

9. Dockerfile me, aapko project ko run karne ke command bhi provide karna hoga.

10. Ab aapko Docker image ko build karna hoga. Is ke liye, aap ye command run kar sakte hain: `"docker build -t <image-name> ."` Is command se, Docker image build ho jayega.

11. Ab aapko Docker container ko run karna hoga. Is ke liye, aap ye command run kar sakte hain: `"docker run -p <host-port>:<container-port> <image-name>"`

Is tarah se aap Docker ko apne system me set up kar sakte hain aur apne Spring Boot project me Docker ka use kar sakte hain.

ky aap iska ek example bata sakte he agr mere pass demo name se spring boot project he to

Haan, main aapko ek example bata sakta hu.

Maan lijiye aapke paas ek Spring Boot project hai jiska naam "demo" hai. Is project ka port number 8080 hai. Ab aapko Docker me is project ko run karne ke liye kuch steps follow karne honge:

1. Sabse pehle, aapko Dockerfile create karna hoga. Ye Dockerfile aapke project ke root directory me create karna hoga.

sql

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```
FROM openjdk:8-jdk-alpine
EXPOSE 8080
ADD target/demo.jar demo.jar
ENTRYPOINT ["java", "-jar", "demo.jar"]
```

Is Dockerfile me, `"FROM"` command se hum `"openjdk:8-jdk-alpine"` image ko base image ke roop me use karenge, `"EXPOSE"` command se hum port number 8080 ko expose karenge, `"ADD"` command se hum `"demo.jar"` file ko Docker container me copy karenge aur `"ENTRYPOINT"` command se hum `"java -jar demo.jar"` command ko run karenge.

2. Ab aapko Docker image build karna hoga. Is ke liye, aap project ke root directory me jaye aur ye command run kare:

docker build -t demo-image .

Is command se `"demo-image"` naam ka Docker image build ho jayega.

3. Ab aapko Docker container ko run karna hoga. Is ke liye, aap ye command run kare:

css

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```
docker run -p 8080:8080 demo-image
```

Is command se Docker container run hoga aur aap `"localhost:8080"` par apne Spring Boot project ko access kar sakte hain.

I hope ye example aapko Docker ka use karne ke liye help karega.

Regenerate response

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