**Push an Image to Docker Hub**

**Program:**

**Dockerfile:**

# Use an OpenJDK base image with Java 11

FROM openjdk:11-jre

# Set the working directory inside the container

WORKDIR /app

# Add the Java application JAR file to the container

ADD student-info-0.0.1-SNAPSHOT.jar /app/student-info-0.0.1-SNAPSHOT.jar

# Expose the port your Java application is listening on (the same port you use in your Java program)

EXPOSE 8081

# Command to run the Java application when the container starts

CMD ["java", "-jar", "student-info-0.0.1-SNAPSHOT.jar"]

**Pom.xml:**

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.5.5</version> <!-- Update to the appropriate Spring Boot version -->

<relativePath/> <!-- lookup parent from repository -->

</parent>

<groupId>com.example</groupId>

<artifactId>student-info</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>student-info</name>

<description>Demo project for Spring Boot</description>

<properties>

<java.version>17</java.version>

<!-- Add the Spring Boot Docker plugin -->

<docker.image.prefix>com.example</docker.image.prefix>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter</artifactId>

</dependency>

<!-- Add the following dependency -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<!-- Add the Spring Boot Maven plugin for creating an executable JAR -->

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

<!-- Add the Docker plugin for packaging the application as a Docker image -->

<plugin>

<groupId>com.spotify</groupId>

<artifactId>dockerfile-maven-plugin</artifactId>

<version>1.4.13</version> <!-- Use the latest version available -->

<configuration>

<repository>${docker.image.prefix}/${project.artifactId}</repository>

<tag>${project.version}</tag>

</configuration>

</plugin>

</plugins>

</build>

<repositories>

<!-- ... (existing repositories) ... -->

</repositories>

<pluginRepositories>

<!-- ... (existing plugin repositories) ... -->

</pluginRepositories>

</project>

**Output:**







