1) create maven project

2) Add spring-boot dependencies in 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 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>training</groupId>

<artifactId>spring-boot-demo</artifactId>

<version>0.0.1-SNAPSHOT</version>

<parent>

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

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

<version>1.5.4.RELEASE</version>

</parent>

<properties>

<java.version>1.8</java.version>

</properties>

<dependencies>

<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>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>

3) Create a RestController

package training;

import java.util.Date;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RestController;

@SpringBootApplication

@RestController

public class Application {

@RequestMapping("/")

public String home() {

System.out.println("In Application : home() ..... ");

return "Spring Boot App Demo using Dockers : "+new Date();

}

public static void main(String[] args) {

SpringApplication.run(Application.class, args);

}

}

4) Build and copy the jar file to desired directory

5) Create Dockerfile with following instructions:

FROM openjdk:8-jdk-alpine

VOLUME /tmp

ARG JAR\_FILE

ADD spring-boot-demo-1.0.jar spring-boot-demo-1.0.jar

ENTRYPOINT ["java","-Djava.security.egd=file:/dev/./urandom","-jar","/spring-boot-demo-1.0.jar"]

6) Build the docker image

docker build -t spring-boot-image .

7) Create and Run the docker container

docker run --name my-spring-boot-cont1 -port spring-boot-image

Note: Make sure to remove the existing container before running it again

docker rm –f my-spring-boot-cont1