App1.

POM.xml

===================

<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>com.cts</groupId>

<artifactId>SpringBootExample</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>SpringBootExample</name>

<parent>

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

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

<version>1.4.2.RELEASE</version>

</parent>

<dependencies>

<dependency>

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

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

</dependency>

</dependencies>

<properties>

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

</properties>

</project>

SpringBootExample

======================

package com.cts;

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 SpringBootExample {

@RequestMapping("/")

public String sayHello()

{ return "Welcome to Spring Boot";

}

// -Dserver.port=9000 in run Configurations

public static void main(String[] args) {

SpringApplication.run(SpringBootExample.class, args);

}

}

App2 in same project or different project

MVC application

==========================================

**package** com.cts;

**public** **class** Employee {

**public** Employee() {

}

**public** Employee(Integer id, String firstName, String lastName, String email) {

**super**();

**this**.id = id;

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.email = email;

}

**private** Integer id;

**private** String firstName;

**private** String lastName;

**private** String email;

**public** Integer getId() {

**return** id;

}

**public** **void** setId(Integer id) {

**this**.id = id;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

@Override

**public** String toString() {

**return** "Employee [id=" + id + ", firstName=" + firstName

+ ", lastName=" + lastName + ", email=" + email + "]";

}

}

EmployeeController

=====================

package com.cts;

import java.util.ArrayList;

import java.util.List;

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

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

@RestController

public class EmployeeController {

@RequestMapping("/employees")

public List<Employee> getEmployees()

{

List<Employee> employeesList = new ArrayList<Employee>();

employeesList.add(new Employee(1,"Abc","Reddy","abc@gmail.com"));

return employeesList;

}

}

Testing can be done with postman

===========================

App3 :SpringBoot Concole Application

**package** com.cts;

**import** com.cts.service.HelloMessageService;

**import** org.springframework.beans.factory.annotation.Autowired;

**import** org.springframework.boot.Banner;

**import** org.springframework.boot.CommandLineRunner;

**import** org.springframework.boot.SpringApplication;

**import** org.springframework.boot.autoconfigure.SpringBootApplication;

**import** **static** java.lang.System.*exit*;

@SpringBootApplication

**public** **class** SpringBootConsoleApplication **implements** CommandLineRunner {

@Autowired

**private** HelloMessageService helloService;

**public** **static** **void** main(String[] args) **throws** Exception {

//disabled banner, don't want to see the spring logo

SpringApplication app = **new** SpringApplication(SpringBootConsoleApplication.**class**);

app.setBannerMode(Banner.Mode.***OFF***);

app.run(args);

//SpringApplication.run(SpringBootConsoleApplication.class, args);

}

@Override

**public** **void** run(String... args) **throws** Exception {

**if** (args.length > 0 ) {

System.***out***.println(helloService.getMessage(args[0].toString()));

}**else**{

System.***out***.println(helloService.getMessage());

}

*exit*(0);

}

}

=========================

package com.cts.service;

import org.springframework.beans.factory.annotation.Value;

import org.springframework.stereotype.Service;

@Service

public class HelloMessageService {

@Value("${name:unknown}")

private String name;

public String getMessage() {

return getMessage(name);

}

public String getMessage(String name) {

return "Hello " + name;

}

}

=======================

<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/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.mkyong</groupId>

<artifactId>spring-boot-simple</artifactId>

<packaging>jar</packaging>

<version>1.0</version>

<parent>

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

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

<version>1.5.1.RELEASE</version>

</parent>

<properties>

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

</properties>

<dependencies>

<dependency>

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

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

</dependency>

</dependencies>

<build>

<plugins>

<!-- Package as an executable jar/war -->

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>

===============================

App4: Spring Initializer 🡺 start.spring.io url to start

App5 :spring Actuator => start.spring.io in Ops group in down