Using Initializer :

Demo.java :

package com.jd.demo;

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

import org.springframework.boot.SpringApplication;

import org.springframework.context.ApplicationContext;

import org.springframework.stereotype.Component;

@Component("d1")

public class Demo {

@Value("10")

private int id;

@Value("Dipti")

private String name;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

@Override

public String toString() {

return "Demo [id=" + id + ", name=" + name + "]";

}

}

DemoApllication.java (MAIN)

package com.jd.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.ApplicationContext;

@SpringBootApplication

public class DemoApplication {

public static void main(String[] args) {

ApplicationContext cx = SpringApplication.run(DemoApplication.class, args);

Demo d = cx.getBean("d1" , Demo.class);

System.out.println(d.toString());

}

}

Demo2:

Demo2Application.java:

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class Demo2Application {

public static void main(String[] args) {

SpringApplication.run(Demo2Application.class, args);

}

}

Application.properties : in resource folder

server.port=9090

WebDemo1:

HelloController.java

package com.jd.webdemo1;

import org.springframework.stereotype.Controller;

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

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

import org.springframework.web.servlet.ModelAndView;

@Controller

public class HelloController {

@RequestMapping(value="hello", method=RequestMethod.GET)

public ModelAndView sayHello() {

System.out.println("inside SayHello()");

ModelAndView mav = new ModelAndView();

mav.setViewName("hello");

String model = "Dipti Jain";

return mav.addObject("msg", model);

}

}

Application.properties

server.port=9090

spring.mvc.view.prefix=/WEB-INF/pages/

spring.mvc.view.suffix=.jsp

logging.level.org.springframework=info

hello.jsp -- src/main/webapp/Web-INF/pages/hello.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

Spring Boot Welcomes Ms ${msg}

</body>

</html>

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>2.2.2.RELEASE</version>

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

</parent>

<packaging>jar</packaging>

<groupId>com.jd</groupId>

<artifactId>WebDemo1</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>WebDemo1</name>

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

<properties>

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

</properties>

<dependencies>

<dependency>

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

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

</dependency>

<dependency>

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

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

</dependency>

<dependency>

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

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

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

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

<scope>test</scope>

<exclusions>

<exclusion>

<groupId>org.junit.vintage</groupId>

<artifactId>junit-vintage-engine</artifactId>

</exclusion>

</exclusions>

</dependency>

<dependency>

<groupId>org.apache.tomcat.embed</groupId>

<artifactId>tomcat-embed-jasper</artifactId>

<scope>provided</scope>

</dependency>

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>

WebDemo2: HelloController:

package com.jd.webdemo2;

import org.springframework.stereotype.Controller;

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

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

import org.springframework.web.servlet.ModelAndView;

@Controller

public class HelloController {

@RequestMapping(value="/hello", method=RequestMethod.GET)

public ModelAndView sayHello() {

System.out.println("inside SayHello()");

ModelAndView mav = new ModelAndView();

mav.setViewName("hello");

String model = "Dipti Jain";

mav.addObject("msg", model);

return mav;

}

}

Application.properties

server.port=9090

spring.mvc.view.prefix=/WEB-INF/pages/

spring.mvc.view.suffix=.jsp

logging.level.org.springframework=info

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>2.2.2.RELEASE</version>

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

</parent>

<groupId>com.jd</groupId>

<artifactId>WebDemo2</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>WebDemo2</name>

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

<properties>

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

</properties>

<dependencies>

<dependency>

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

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

</dependency>

<dependency>

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

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

</dependency>

<dependency>

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

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

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

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

<scope>test</scope>

<exclusions>

<exclusion>

<groupId>org.junit.vintage</groupId>

<artifactId>junit-vintage-engine</artifactId>

</exclusion>

</exclusions>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>

UserResourceManagement:

**package** com.jd.userresourcemanagement1;

**public** **class** User {

**private** **int** id;

**private** String fname;

**private** String lname;

**public** User() {

**super**();

// **TODO** Auto-generated constructor stub

}

**public** User(**int** id, String fname, String lname) {

**super**();

**this**.id = id;

**this**.fname = fname;

**this**.lname = lname;

}

**public** **int** getId() {

**return** id;

}

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

**this**.id = id;

}

**public** String getFname() {

**return** fname;

}

**public** **void** setFname(String fname) {

**this**.fname = fname;

}

**public** String getLname() {

**return** lname;

}

**public** **void** setLname(String lname) {

**this**.lname = lname;

}

}

}

UserRepository:

**package** com.jd.userresourcemanagement1;

**import** java.util.ArrayList;

**import** java.util.List;

**import** org.springframework.stereotype.Repository;

//Mock Dao

@Repository

**public** **class** UserRepository {

**public** UserRepository() {

System.***out***.println("in constructor of UserRepository ");

}

**private** **static** List<User> *users* = **new** ArrayList<>();

**private** **static** **int** *userCount* = 3;

**static** {

*users*.add(**new** User(1, "Dipti", "Jain"));

*users*.add(**new** User(2, "Saleel", "Prabhu"));

*users*.add(**new** User(3, "Arun", "Korasne"));

}

**public** List<User> findAll(){

System.***out***.println("inside findAll() method");

**return** *users*;

}

**public** User findById(**int** id) {

System.***out***.println("Inside findById(int id)");

**for**(User user :*users*) {

**if**(user.getId()==id)

**return** user;

}

**return** **null**;

}

**public** User save(User user) {

System.***out***.println("inside save user method");

// if(user.getId() == null) {

user.setId(++*userCount*);

// }

*users*.add(user);

System.***out***.println(*users*);

**return** user;

}

}

UserResouurce:

package com.jd.userresourcemanagement1;

import java.util.List;

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

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

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

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

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

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

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

@RestController

public class UserResource {

@Autowired

private UserService service;

//@GetMapping(path="/users")

@RequestMapping(value = "/users")

public List<User> retrieveAllUser(){

System.out.println("inside controller");

List<User> li = service.findAll();

return li;

}

@GetMapping(path="/users/{id}")

public User retrievebyUser(@PathVariable int id){

System.out.println("Inside retrieveAll users");

return service.findById(id);

}

@PostMapping(path="/users")

public User saveUser(@RequestBody User user) {

return service.saveuser(user);

}

}

UserService:

package com.jd.userresourcemanagement1;

import java.util.List;

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

import org.springframework.stereotype.Service;

@Service

public class UserService {

@Autowired

private UserRepository userrepo;

public List<User> findAll(){

System.out.println("inside findAll() of service");

return userrepo.findAll();

}

public User findById(int id) {

System.out.println("inside findById() of service");

return userrepo.findById(id);

}

public User saveuser(User user) {

System.out.println("inside saveuser(User user)");

return userrepo.save(user);

}

}