**REST - Get country based on country code**

**Code –**

*CountryController.java –*

package com.cognizant.springlearn.controller;

import java.util.List;

import com.cognizant.springlearn.Country;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

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

import org.springframework.context.ApplicationContext;

import org.springframework.web.bind.annotation.\*;

*@RestController*

public class CountryController {

private static final Logger ***LOGGER*** = LoggerFactory.*getLogger*(CountryController.class);

*@Autowired*

private ApplicationContext context;

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

public Country getCountryIndia() {

***LOGGER***.debug("Start - getCountryIndia()");

Country country = context.getBean("country", Country.class);

***LOGGER***.debug("Country: {}", country);

return country;

}

*@GetMapping*("/countries/{code}")

public Country getCountry(*@PathVariable* String code) {

***LOGGER***.debug("Start - getCountry() for code: {}", code);

List<Country> countries = (List<Country>) context.getBean("countryList");

return countries.stream()

.filter(c -> c.getCode().equalsIgnoreCase(code))

.findFirst()

.orElse(null);

}

}

*SpringlearnApplication.java –*

package com.cognizant.springlearn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.annotation.ImportResource;

@SpringBootApplication

@ImportResource("classpath:country.xml")

public class SpringlearnApplication {

public static void main(String[] args) {

SpringApplication.run(SpringlearnApplication.class, args);

}

}

*Country.java –*

package com.cognizant.springlearn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Country {

private static final Logger LOGGER = LoggerFactory.getLogger(Country.class);

private String code;

private String name;

public Country() {

LOGGER.debug("Inside Country Constructor.");

}

public String getCode() {

LOGGER.debug("Inside getCode()");

return code;

}

public void setCode(String code) {

LOGGER.debug("Inside setCode()");

this.code = code;

}

public String getName() {

LOGGER.debug("Inside getName()");

return name;

}

public void setName(String name) {

LOGGER.debug("Inside setName()");

this.name = name;

}

@Override

public String toString() {

return "Country [code=" + code + ", name=" + name + "]";

}

}

*Country.xml –*

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

<**beans** xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans*

*http://www.springframework.org/schema/beans/spring-beans.xsd"*>

<**bean** id=*"countryList"* class=*"java.util.ArrayList"*>

<**constructor-arg**>

<**list**>

<**bean** class=*"com.cognizant.springlearn.Country"*>

<**property** name=*"code"* value=*"IN"*/>

<**property** name=*"name"* value=*"India"*/>

</**bean**>

<**bean** class=*"com.cognizant.springlearn.Country"*>

<**property** name=*"code"* value=*"US"*/>

<**property** name=*"name"* value=*"United States"*/>

</**bean**>

<**bean** class=*"com.cognizant.springlearn.Country"*>

<**property** name=*"code"* value=*"DE"*/>

<**property** name=*"name"* value=*"Germany"*/>

</**bean**>

</**list**>

</**constructor-arg**>

</**bean**>

</**beans**>

*Logback.xml –*

<**configuration**>

<**appender** name=*"STDOUT"* class=*"ch.qos.logback.core.ConsoleAppender"*>

<**encoder**>

<**pattern**>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</**pattern**>

</**encoder**>

</**appender**>

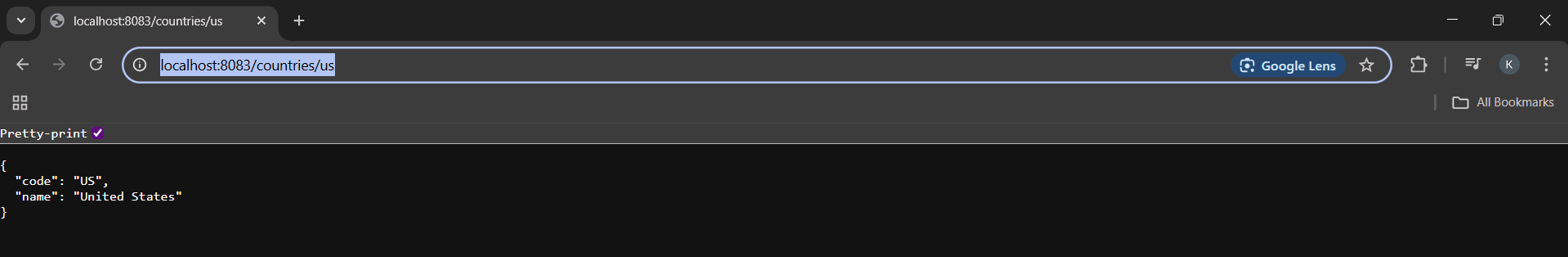
<**root** level=*"debug"*>

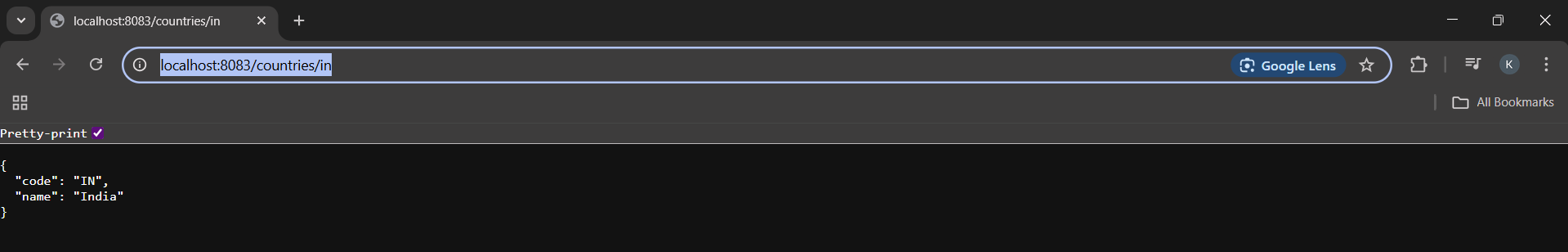
<**appender-ref** ref=*"STDOUT"*/>

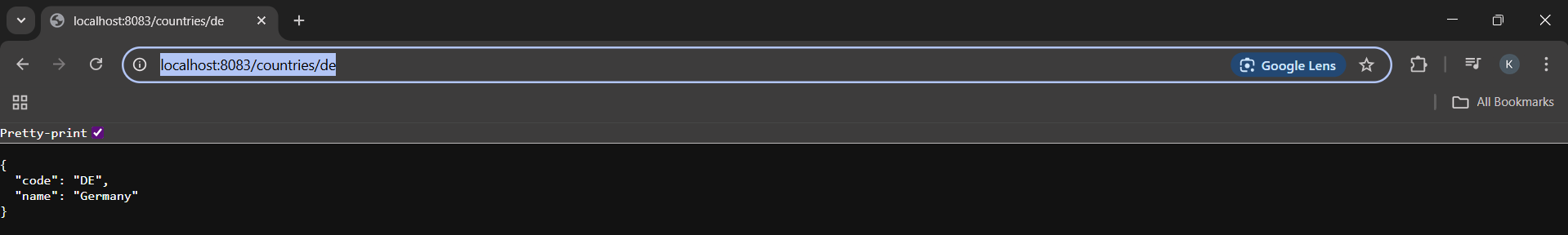
</**root**>

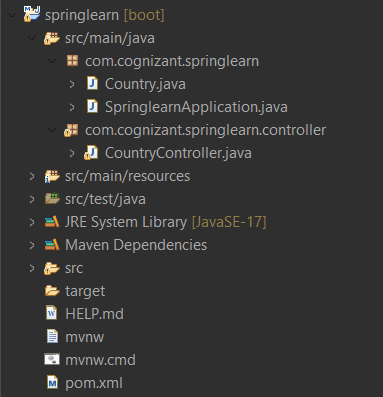
</**configuration**>

**Output – (Screenshots)**

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