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

Write a REST service that returns a specific country based on country code. The country code should be case insensitive.

**SpringCountryApiApplication.java :**

package com.cognizant.spring\_country\_api;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

*@SpringBootApplication*

public class SpringCountryApiApplication {

public static void main(String[] args) {

SpringApplication.*run*(SpringCountryApiApplication.class, args);

}

}

**Country.java:**

package com.cognizant.springcountryapi.model;

public class Country {

private String code;

private String name;

public Country() {}

public Country(String code, String name) {

this.code = code;

this.name = name;

}

public String getCode() {

return code;

}

public void setCode(String code) {

this.code = code;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

*@Override*

public String toString() {

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

}

}

**CountryApplication.java:** package com.cognizant.spring\_country\_api.controller;

import com.cognizant.springcountryapi.model.Country;

import com.cognizant.springcountryapi.service.CountryService;

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

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

*@RestController*

public class CountryController {

*@Autowired*

private CountryService countryService;

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

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

return countryService.getCountry(code);

}

}

**Countryservice.java:** package com.cognizant.spring country api.service;

import com.cognizant.springcountryapi.model.Country;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.stereotype.Service;

import java.util.List;

*@Service*

public class CountryService {

public Country getCountry(String code) {

ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");

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

return countryList.stream()

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

.findFirst()

.orElse(null);

}

}

**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*

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

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

<**constructor-arg**>

<**list**>

<**bean** class=*"com.cognizant.springcountryapi.model.Country"*>

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

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

</**bean**>

<**bean** class=*"com.cognizant.springcountryapi.model.Country"*>

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

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

</**bean**>

<**bean** class=*"com.cognizant.springcountryapi.model.Country"*>

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

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

</**bean**>

<**bean** class=*"com.cognizant.springcountryapi.model.Country"*>

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

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

</**bean**>

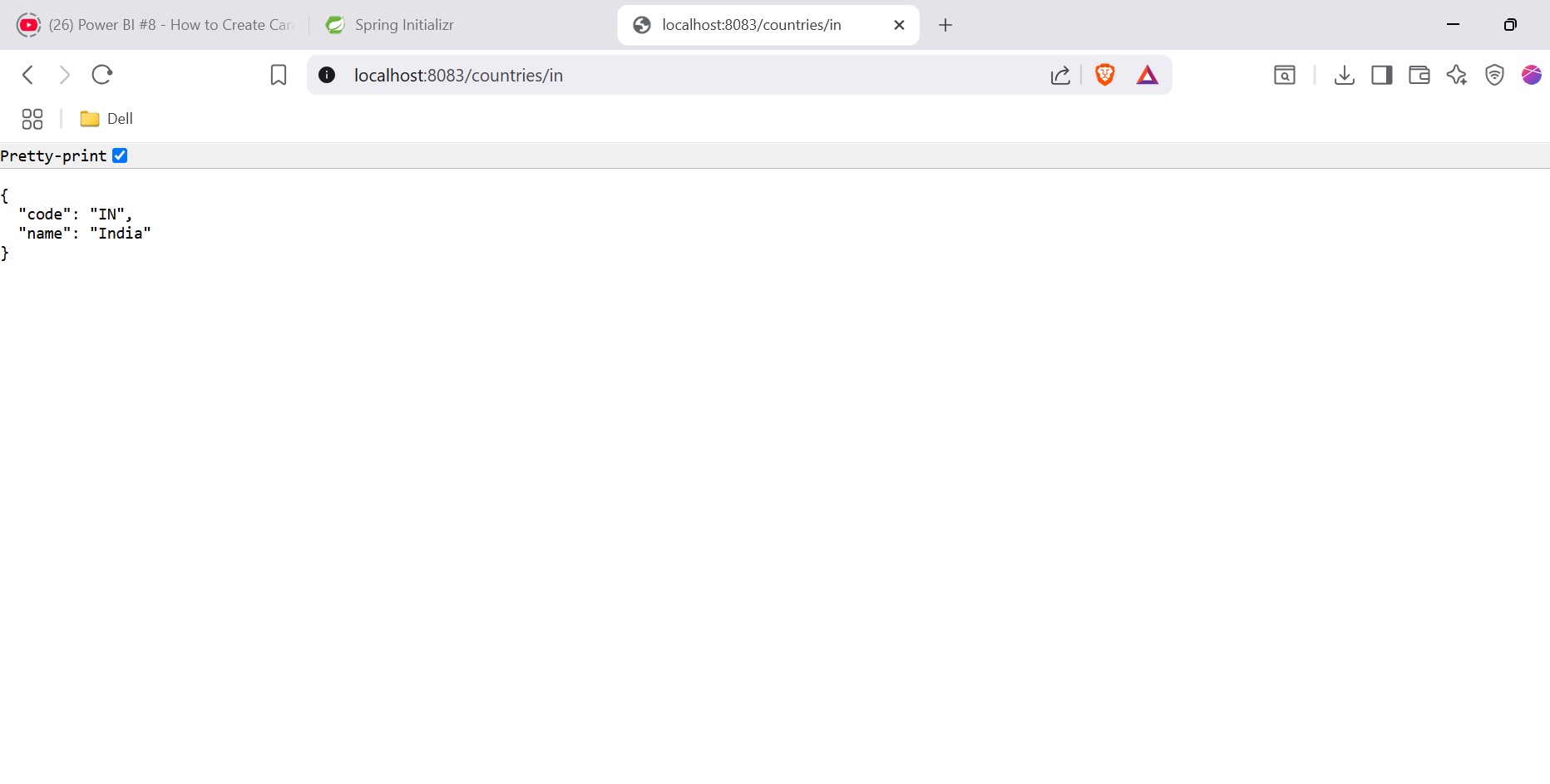
</**list**>

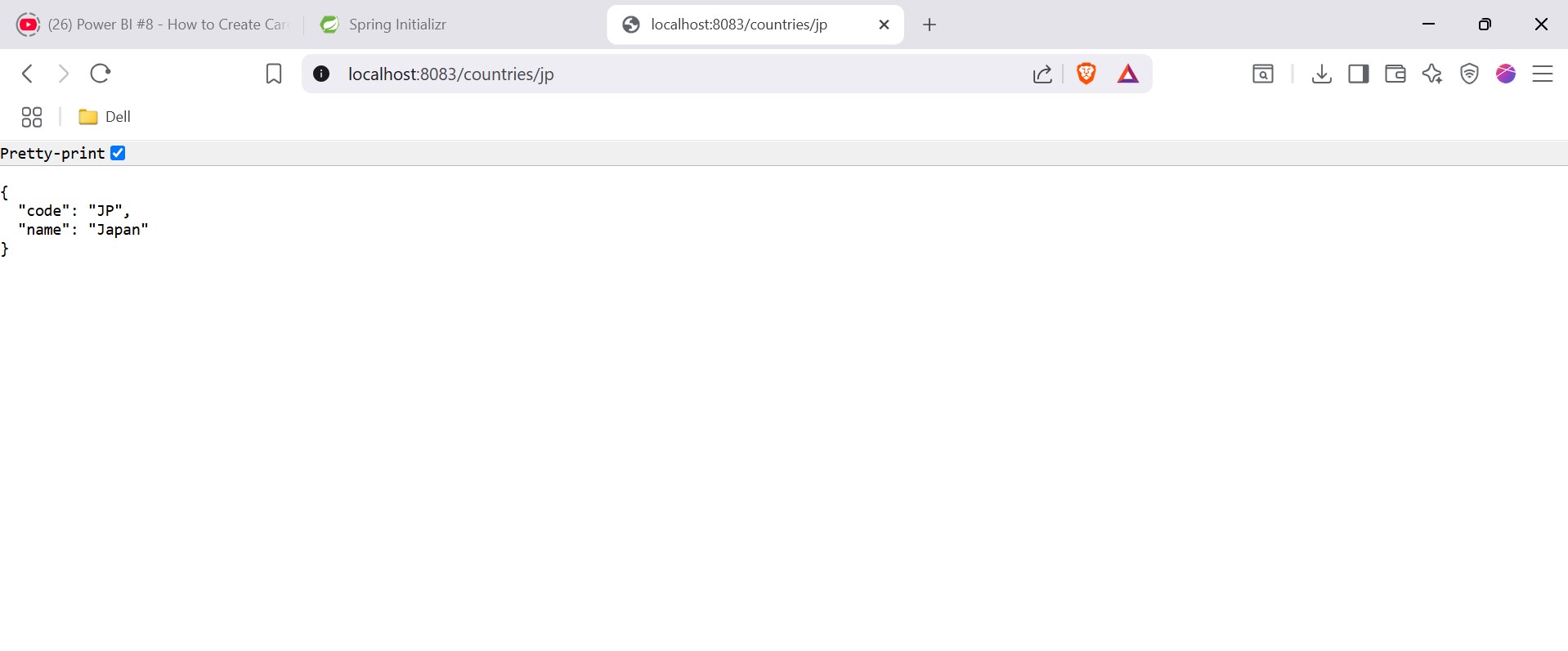
</**constructor-arg**>

</**bean**>

</**beans**>

**OUTPUT :**

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