**Exercise 4: 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.

Controller: com.cognizant.spring-learn.controller.CountryController

Method Annotation: @GetMapping("/countries/{code}")

Method Name: getCountry(String code)

Method Implemetation: Invoke countryService.getCountry(code)

Service Method: com.cognizant.spring-learn.service.CountryService.getCountry(String code)

Service Method Implementation:

Get the country code using @PathVariable

Get country list from country.xml

Iterate through the country list

Make a case insensitive matching of country code and return the country.

Lambda expression can also be used instead of iterating the country list

Sample Request: http://localhost:8083/country/in

Sample Response:

{

  "code": "IN",

  "name": "India"

}

**Program:**

**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="country" class="com.cognizant.springlearn.Country">

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

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

</bean>

</beans>

**Country.java:**

package com.cognizant.springlearn;

public class Country {

private String code;

private String name;

public Country() {

System.out.println("Inside Country Constructor");

}

public String getCode() {

System.out.println("Getting Code");

return code;

}

public void setCode(String code) {

System.out.println("Setting Code");

this.code = code;

}

public String getName() {

System.out.println("Getting Name");

return name;

}

public void setName(String name) {

System.out.println("Setting Name");

this.name = name;

}

@Override

public String toString() {

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

}

}

**CountryController.java:**

package com.cognizant.springlearn.controller;

import com.cognizant.springlearn.Country;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

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

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

@RestController

public class CountryController {

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

@RequestMapping("/country")

public Country getCountryIndia() {

LOGGER.info("START - getCountryIndia()");

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

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

LOGGER.info("END - getCountryIndia()");

return country;

}

}

**Output:**

