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

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

**CODE:**

**CountryController.java:**

package com.cognizant.spring\_learn.controller;

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

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

import com.cognizant.spring\_learn.model.Country;

import com.cognizant.spring\_learn.service.CountryService;

*@RestController*

public class CountryController {

*@Autowired*

private CountryService countryService;

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

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

return countryService.getCountry(code);

}

}

**Country.java:**

package com.cognizant.spring\_learn.model;

public class Country {

private String code;

private String 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;

}

}

**CountryService.java:**

package com.cognizant.spring\_learn.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.cognizant.spring\_learn.model.Country;

import com.cognizant.spring\_learn.util.CountryList;

*@Service*

public class CountryService {

*@Autowired*

private CountryList countryList;

public Country getCountry(String code) {

List<Country> countries = countryList.getCountryList();

return countries.stream()

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

.findFirst()

.orElse(null); // Optionally throw exception instead

}

}

**CountryList.java:**

package com.cognizant.spring\_learn.util;

import java.util.List;

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

import org.springframework.stereotype.Component;

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

import com.cognizant.spring\_learn.model.Country;

*@Component*

public class CountryList {

*@Autowired*

*@Qualifier*("countryListBean")

private List<Country> countryList;

public List<Country> getCountryList() {

return countryList;

}

}

**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="countryListBean" class="java.util.ArrayList">

<constructor-arg>

<list>

<bean class="com.cognizant.spring\_learn.model.Country">

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

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

</bean>

<bean class="com.cognizant.spring\_learn.model.Country">

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

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

</bean>

<bean class="com.cognizant.spring\_learn.model.Country">

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

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

</bean>

<bean class="com.cognizant.spring\_learn.model.Country">

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

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

</bean>

</list>

</constructor-arg>

</bean>

</beans>

**OUTPUT:**







