**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"

}

**Source Code:**

**Country.java:**

**package** com.cognizant.spring\_learn.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;

}

}

**appli.xml:**

<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.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>

</list>

</constructor-arg>

</bean>

</beans>

**Ser.java:**

**package** com.cognizant.spring\_learn.service;

**import** com.cognizant.spring\_learn.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("appli.xml");

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

**return** countryList.stream()

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

.findFirst()

.orElse(**null**);

}

}

**Cont.java:**

**package** com.cognizant.spring\_learn.controller;

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

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

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

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

@RestController

**public** **class** Cont {

@Autowired

**private** Ser Ser;

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

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

**return** Ser.getCountry(code);

}

}

**Output:**

**Json file:**

{

"code": "IN",

"name": "India"

}