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:

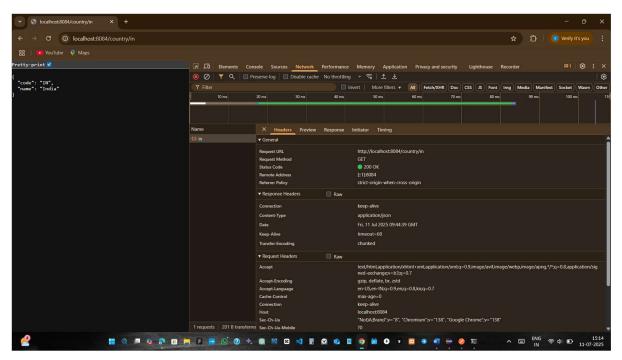
- Get the country code using @PathVariable
- Get country list from country.xml
- Iterate through the country list
- Make a case insensitive matching of country code and return the country.
- Lambda expression can also be used instead of iterating the country list

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

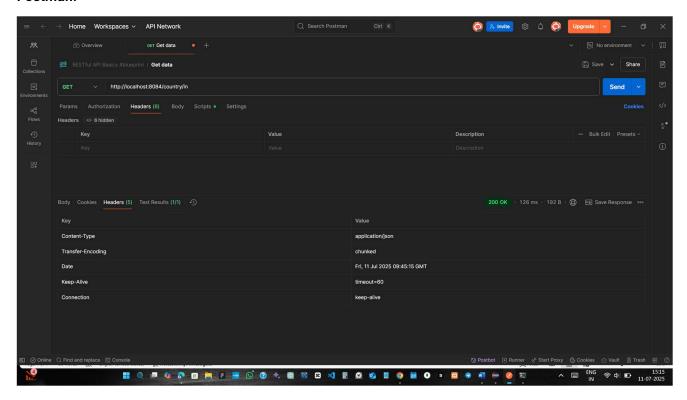
Sample Response:

```
{
    "code": "IN",
    "name": "India"
}
```

Result: chrome



Postman:



Country.xml file

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
 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="in" class="com.cognizant.spring_learn.model.Country">
   code" value="IN" />
   cproperty name="name" value="India" />
 </bean>
 <bean id="countryList" class="java.util.ArrayList">
   <constructor-arg>
     t>
      <ref bean="in" />
    </list>
   </constructor-arg>
 </bean>
</beans>
```

```
SpringLearnApplication.java
package com.cognizant.spring_learn;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication // <- By default, it scans the com.cognizant.spring_learn.* packages
public class SpringLearnApplication {
 public static void main(String[] args) {
   SpringApplication.run(SpringLearnApplication.class, args);
 }
}
ContryController.java
package com.cognizant.spring_learn;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class SpringLearnApplication {
 public static void main(String[] args) {
   SpringApplication.run(SpringLearnApplication.class, args);
 }
```

}

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;
 }
}
```

CountryService.java

```
package com.cognizant.spring_learn.service;
import com.cognizant.spring_learn.model.Country;
import org.springframework.stereotype.Service;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import java.util.List;
@Service
public class CountryService {
 private ApplicationContext context;
       public Country getCountry(String code) {
   context = new ClassPathXmlApplicationContext("country.xml");
   List<Country> countryList = context.getBean("countryList", List.class);
   return countryList.stream()
       .filter(country -> country.getCode().equalsIgnoreCase(code))
       .findFirst()
       .orElse(null);
 }
}
```