

REST - Get country based on country code From File 2. spring-rest-handson

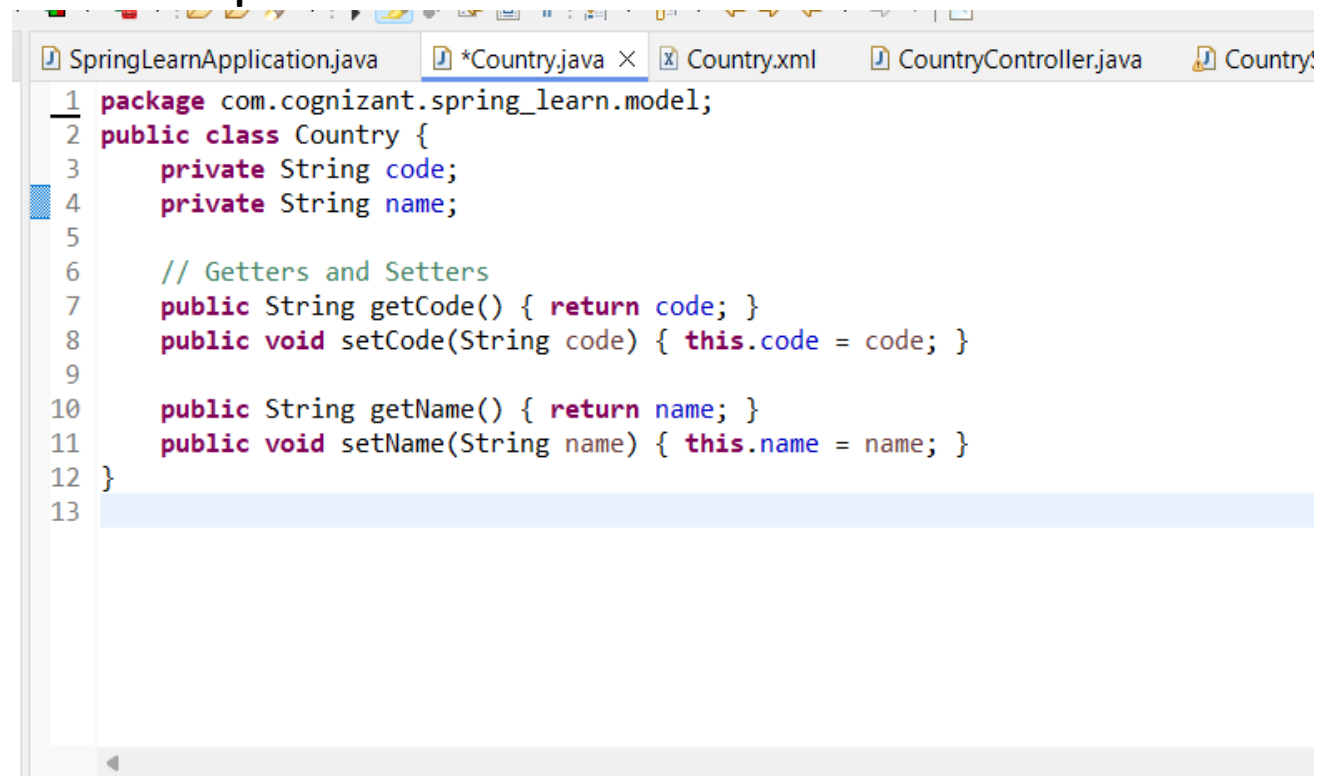
Country.java From Package com. cognizant.spring_learn .model:
code:

```
package com.cognizant.spring_learn.model;
public class Country {
    private String code;
    private String name;

    // Getters and Setters
    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; }
}
```

Pic From Eclipse IDE:



CountryController.java From Package com.cognizant.spring_learn.controller;

Code:

```
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}")
```

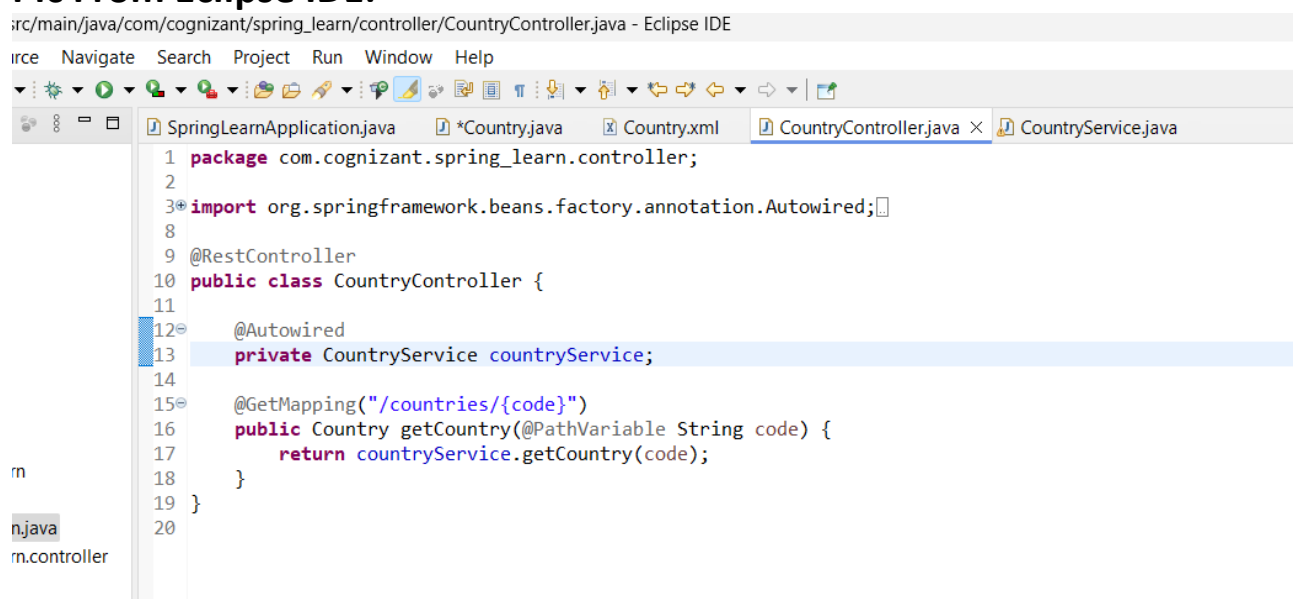
```
    public Country getCountry(@PathVariable String code) {
```

```
        return countryService.getCountry(code);
```

```
    }
```

```
}
```

Pic From Eclipse IDE:



CountryService.java From Package com.cognizant.spring_learn.service;

Code:

```
package com.cognizant.spring_learn.service;
import java.util.List;
import java.util.Locale;
import org.springframework.context.ApplicationContext;
import
org.springframework.context.support.ClassPathXmlApplicationConte
xt;
import org.springframework.stereotype.Service;
import com.cognizant.spring_learn.model.Country;
```

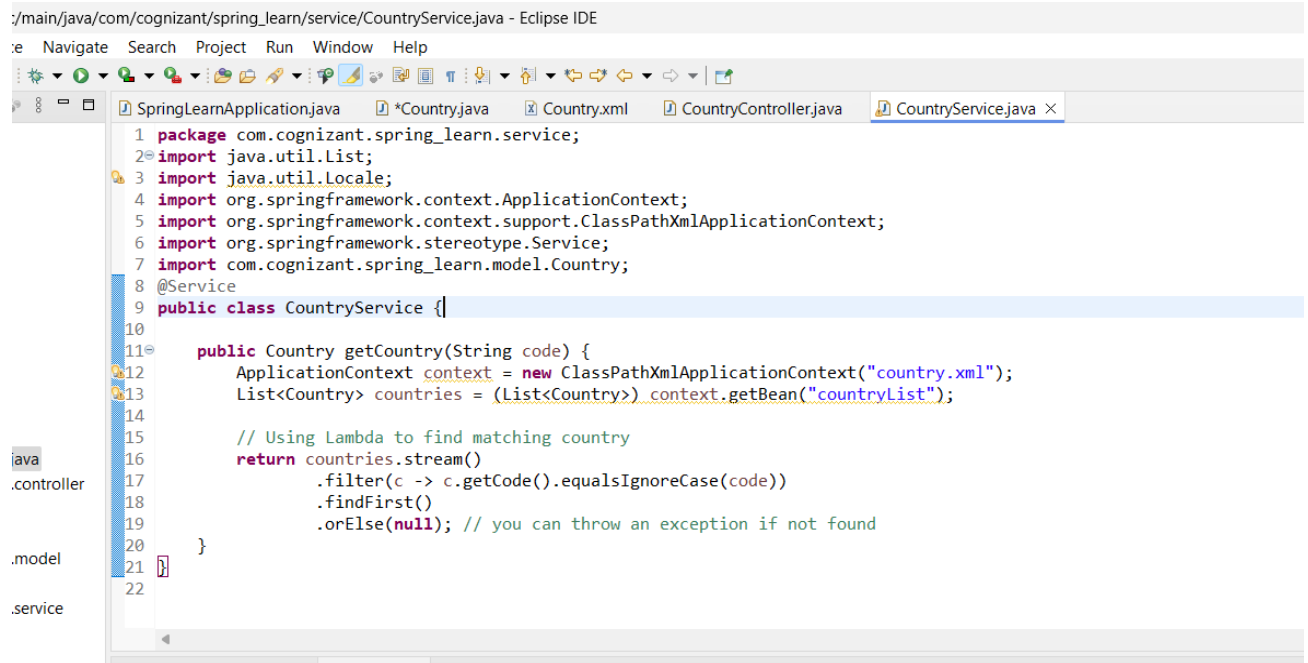
@Service

```
public class CountryService {

    public Country getCountry(String code) {
        ApplicationContext context = new
ClassPathXmlApplicationContext("country.xml");
        List<Country> countries = (List<Country>)
context.getBean("countryList");

        // Using Lambda to find matching country
        return countries.stream()
            .filter(c -> c.getCode().equalsIgnoreCase(code))
            .findFirst()
            .orElse(null); // you can throw an exception if not found
    }
}
```

Pic From Eclipse IDE:



Country.xml file:

Code:

```
<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
ns
```

```
    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"/>
```

The screenshot shows the Eclipse IDE with the following components:

- Top Bar:** eclipse-workspace - spring-learn/src/main/resources/Country.xml - Eclipse IDE
- Menu Bar:** File Edit Source Navigate Search Project Run Window Help
- Toolbar:** Standard Eclipse IDE toolbar with icons for file operations, search, and development.
- Package Explorer (Left):**
 - cd5
 - ECommerceSearch
 - FactoryMethodPattern
 - FinancialForecasting
 - jpademo
 - JUnit5Test
 - orm-learn
 - Patterns
 - SingletonPattern
 - spring-learn
 - src/main/java
 - com.cognizant.spring_learn
 - package-info.java
 - SpringLearnApplication.java (Selected)
 - com.cognizant.spring_learn.controller
 - CountryController.java
 - HelloController.java
 - com.cognizant.spring_learn.model
 - Country.java
 - com.cognizant.spring_learn.service
 - CountryService.java
 - static
 - templates

- Main Editor:**
- SpringLearnApplication.java
- *Country.java
- Country.xml (Selected)
- CountryController.java
- CountryService.java

The XML content in the main editor is as follows:

```

1 <beans xmlns="http://www.springframework.org/schema/beans"
2   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://www.springframework.org/schema/beans
4     http://www.springframework.org/schema/beans/spring-beans.xsd">
5
6   <bean id="countryList" class="java.util.ArrayList">
7     <constructor-arg>
8       <list>
9         <bean class="com.cognizant.spring_learn.model.Country">
10          <property name="code" value="IN"/>
11          <property name="name" value="India"/>
12        </bean>
13        <bean class="com.cognizant.spring_learn.model.Country">
14          <property name="code" value="US"/>
15          <property name="name" value="United States"/>
16        </bean>
17        <bean class="com.cognizant.spring_learn.model.Country">
18          <property name="code" value="CN"/>
19          <property name="name" value="China"/>
20        </bean>
21      </list>
22    </constructor-arg>
23  </bean>
24 </beans>
25
  
```

SpringLearnApplication.java From Main Package:

Code:

```
package com.cognizant.spring_learn;

import org.springframework.boot.SpringApplication;

import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearnApplication {

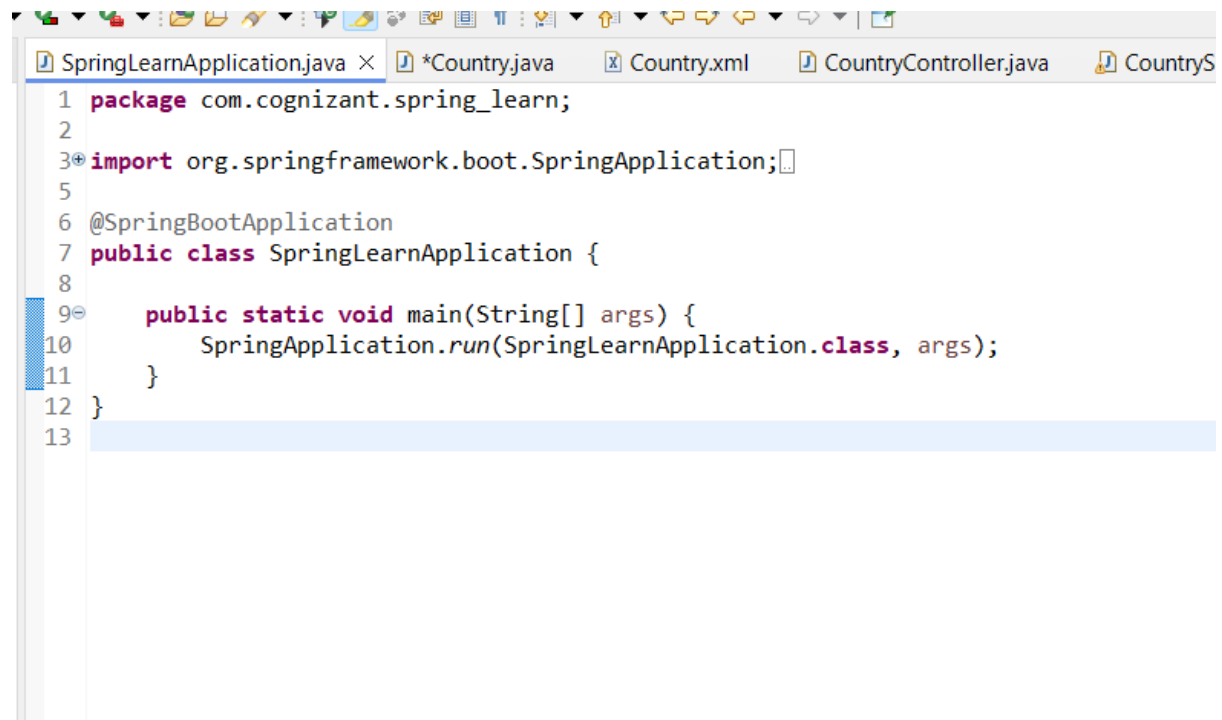
    public static void main(String[] args) {

        SpringApplication.run(SpringLearnApplication.class, args);

    }

}
```

Pic From Eclipse IDE:



After Running This Class :

Output From Eclipse IDE:

```

  ____  _
 / ___|| | | |
 \___ \| |_| |
  ___) |  __/
 |____|_|_|_|

:: Spring Boot ::                (v3.5.3)

2025-07-12T21:40:33.443+05:30 INFO 15324 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting SpringLearnApplication using Java 22.0.1
2025-07-12T21:40:33.444+05:30 INFO 15324 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : No active profile set, falling back to 1 default
2025-07-12T21:40:33.823+05:30 INFO 15324 --- [spring-learn] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8083 (http)
2025-07-12T21:40:33.824+05:30 INFO 15324 --- [spring-learn] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-12T21:40:33.825+05:30 INFO 15324 --- [spring-learn] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.42]
2025-07-12T21:40:33.850+05:30 INFO 15324 --- [spring-learn] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2025-07-12T21:40:33.851+05:30 INFO 15324 --- [spring-learn] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization complete
2025-07-12T21:40:34.038+05:30 INFO 15324 --- [spring-learn] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2025-07-12T21:40:34.069+05:30 INFO 15324 --- [spring-learn] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8083 (http) with context path = /
2025-07-12T21:40:34.082+05:30 INFO 15324 --- [spring-learn] [ restartedMain] c.c.spring_learn.SpringLearnApplication : Started SpringLearnApplication in 0.677 seconds (process running for 1.077)
2025-07-12T21:40:34.090+05:30 INFO 15324 --- [spring-learn] [ restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
```

Output and Header From Postman :

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

