Digital Nurture 4.0 Deep Skilling

Week 4- HANDS ON 4

4.REST - Country Web Service

Write a REST service that returns India country details in the earlier created spring learn application.

Code:

```
© sping-learn | Spring-learn | Spri
```

Country.java

```
1 package com.cognizant.spring_learn.model;
 3 public class Country {
     private String code;
     private String name;
    public String getCode() {
 8
         return code;
10
    public void setCode(String code) {
       this.code = code;
13
14
    public String getName() {
15⊜
16
         return name;
17
    public void setName(String name) {
20
        this.name = name;
21
22
23⊜
     @Override
     public String toString() {
        return "Country [code=" + code + ", name=" + name + "]";
28
```

Country.xml

```
application...
             x country.xml
                                      SpringLearnA...
 1<?xml version="1.0" encoding="UTF-8"?>
 2 < beans xmlns="http://www.springframework.org/schema/beans"</pre>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 4
      xsi:schemaLocation="http://www.springframework.org/schema/beans
 5
      http://www.springframework.org/schema/beans/spring-beans.xsd">
 6
      <bean id="country" class="com.cognizant.spring learn.model.Country">
 8
          cproperty name="code" value="IN" />
 9
          property name="name" value="India" />
10
      </bean>
11
12</beans>
13
```

CountryController.java

```
🖹 country.xml 🔃 Country.java

☑ SpringLearnA... ☑ CountryCont... × "

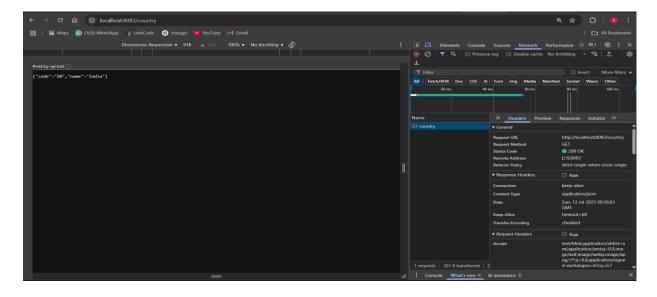
              spring-lear... 🗷 country.xml
 1 package com.cognizant.spring learn.controller;
 3 import com.cognizant.spring learn.model.Country;
 4 import org.slf4j.Logger;
 5 import org.slf4j.LoggerFactory;
 6 import org.springframework.context.ApplicationContext;
 7 import org.springframework.context.support.ClassPathXmlApplicationContext;
 8 import org.springframework.web.bind.annotation.RequestMapping;
 9 import org.springframework.web.bind.annotation.RestController;
10
11 @RestController
12 public class CountryController {
        private static final Logger LoggerFactory.getLogger(CountryController.class);
14
15
169
       @RequestMapping("/country")
17
       public Country getCountryIndia() {
18
           LOGGER.info("START getCountryIndia");
19
            ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
20
            Country country = (Country) context.getBean("country", Country.class);
21
           LOGGER.info("END getCountryIndia");
22
           return country;
23
24 }
25
```

Dependencies:

```
■ spring-lear... × 🗵 country.xml 🗎 country.xml 🗓 Country.java 🗓 SpringLearnA... 🚨 CountryCont...
   https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
 19kproject xmlns="http://maven.apache.org/POM/4.0.0"
            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/1
       <modelVersion>4.0.0</modelVersion>
       <parent>
           <groupId>org.springframework.boot</groupId>
           <artifactId>spring-boot-starter-parent</artifactId>
           <version>3.1.0
           <relativePath/>
10
       </parent>
       <groupId>com.cognizant</groupId>
       <artifactId>spring-learn</artifactId>
13
14
       <version>0.0.1-SNAPSHOT</version>
       <name>spring-learn</name>
<description>Demo Spring Boot Project</description>
15
16⊝
       cproperties>
17
           <java.version>17</java.version>
18
19⊜
       </properties>
       <dependencies>
20⊝
           <dependency>
21
                <groupId>org.springframework.boot</groupId>
22
                <artifactId>spring-boot-starter-web</artifactId>
23
24⊖
           </dependency>
           <dependency>
                <groupId>org.springframework.boot</groupId>
26
                <artifactId>spring-boot-devtools</artifactId>
27
28
                <scope>runtime</scope>
                <optional>true</optional>
29
           </dependency>
30⊜
           <dependency>
31
                <groupId>org.springframework.boot</groupId>
32
                \verb|\artifactId>| spring-boot-starter-logging</artifactId>|
33
           </dependency>
34
       </dependencies>
       <build>
36⊝
           <plugins>
```

Output:

Port 8083 with Header



```
SpringLearnApplication [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Jul 13, 2025, 1:52:59 PM) [pid: 22400]
additions, 0 deletions, 3 modifications)
2025-07-13T13:54:53.394+05:30 INFO 22400 --- [
                                                                                                       Thread-5] o.apache.catalina.core.StandardService : Stopping service [Tomcat]
:: Spring Boot ::
 2025-07-13T13:54:53.489+05:30 INFO 22400 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting SpringLearnApplication using Java 20.0.2
2025-07-13T13:54:53.489+05:30 INFO 22400 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : Starting SpringLearnApplication using Java 20.0.2 with PID 22400 (c:\Users\RP\eclipse-workspace\spring_learn\Lambda) = Info 22400 (c:\Users\RP\eclipse-workspace\spring_learn) = Info 22400 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : No active profile set, falling back to 1 default profile: "default" | 2025-07-13T13:54:53.765+05:30 | INFO 22400 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8083 (http) | 2025-07-13T13:54:53.766+05:30 | INFO 22400 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat] | 2025-07-13T13:54:53.791+05:30 | INFO 22400 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Spring_mebedded WebApplicationContext | 2025-07-13T13:54:53.791+05:30 | INFO 22400 --- [ restartedMain] o.ac.c.c.C.[Tomcat].(localhost].[/] : Initializing Spring_embedded WebApplicationContext | 2025-07-13T13:54:53.791+05:30 | INFO 22400 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext : initialization
 completed in 300 ms
2025-07-13T13:54:53.897+05:30 INFO 22400 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729 2025-07-13T13:54:53.908+05:30 INFO 22400 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8083 (http) with context
 2025-07-13T13:54:53.914+05:30 INFO 22400 --- [ restartedMain] c.c.spring_learn.SpringLearnApplication : Started SpringLearnApplication in 0.461 seconds
(process running for 113.502)
2025-07-13T13:55:53.917+05:30 INFO 22400 --- [ restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
2025-07-13T13:55:22.981+05:30 INFO 22400 --- [nio-8083-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring Dispatchers
'dispatcherServlet'
                                                                                                                                                                                                              : Initializing Spring DispatcherServlet
2025-07-13T13:55:22.982+05:30 INFO 22400 --- [nio-8083-exec-1] o.s.web.servlet.DispatcherServlet
                                                                                                                                                                                                              : Initializing Servlet 'dispatcherServlet'
: Completed initialization in 1 ms
: START getCountryIndia
: END getCountryIndia
: START getCountryIndia
                                                                                                                                                                                                             : END getCountryIndia
: START getCountryIndia
: END getCountryIndia
```

Postman:

