

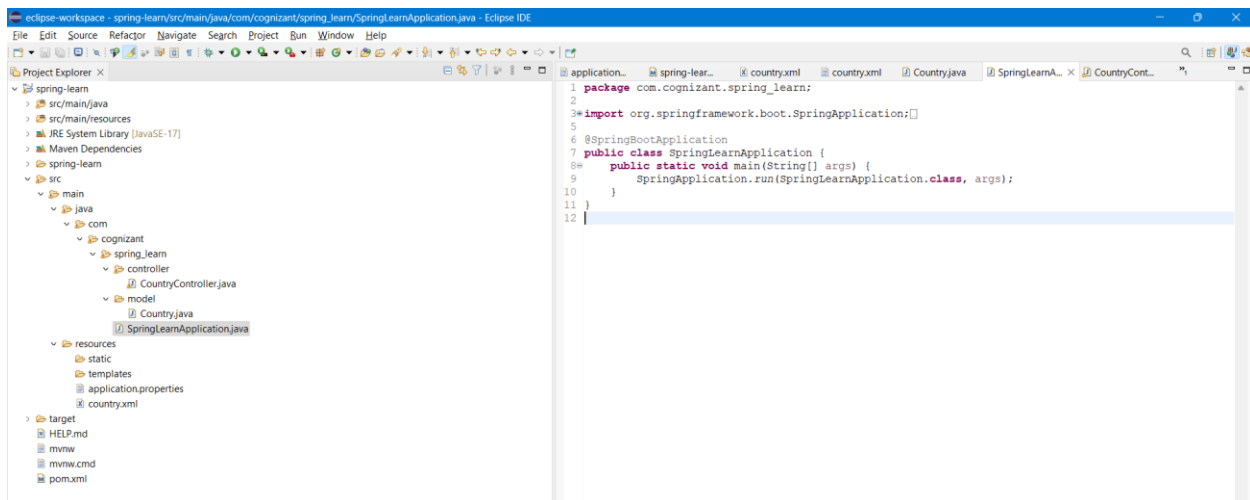
Digital Nurture 4.0 Deep Skilling

Week 4- HANDS ON 4

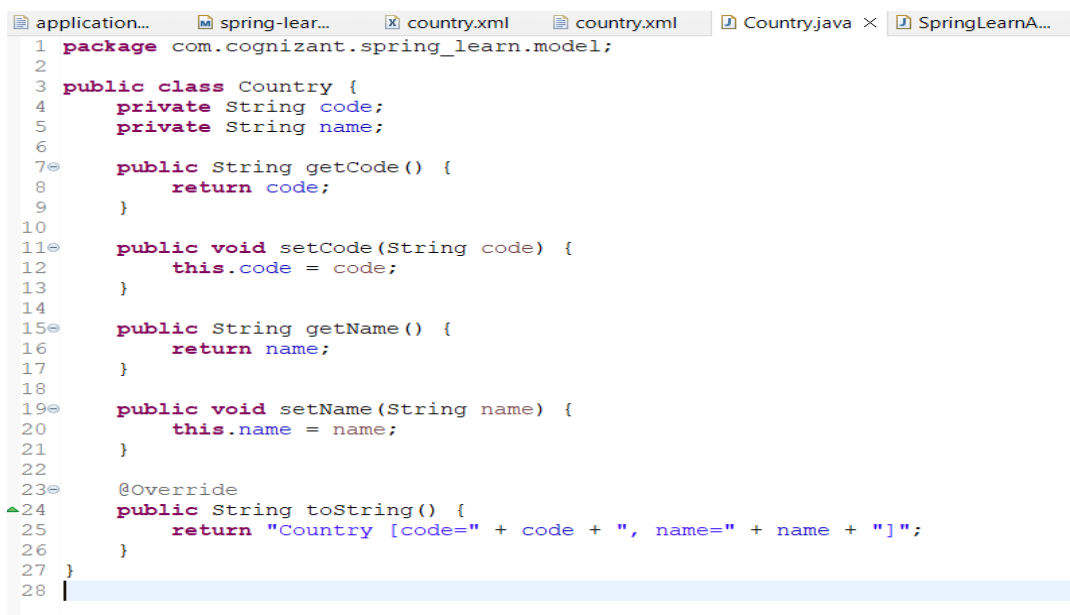
4.REST - Country Web Service

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

Code :



Country.java



Country.xml

```
application... spring-lear... country.xml country.xml × Country.java SpringLearnA...
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3     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
7     <bean id="country" class="com.cognizant.spring_learn.model.Country">
8         <property name="code" value="IN" />
9         <property name="name" value="India" />
10    </bean>
11
12 </beans>
13 |
```

CountryController.java

```
application... spring-lear... country.xml country.xml × Country.java SpringLearnA... CountryCont... × "1
1 package com.cognizant.spring_learn.controller;
2
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 {
13
14     private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);
15
16     @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 :

```
application... spring-lear... x country.xml country.xml Country.java SpringLearnA... CountryCont...
https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
1<?xml version="1.0" encoding="UTF-8"?>
2<project xmlns="http://maven.apache.org/POM/4.0.0"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
5  <modelVersion>4.0.0</modelVersion>
6  <parent>
7    <groupId>org.springframework.boot</groupId>
8    <artifactId>spring-boot-starter-parent</artifactId>
9    <version>3.1.0</version>
10   <relativePath>
11   </relativePath>
12   </parent>
13   <groupId>com.cognizant</groupId>
14   <artifactId>spring-learn</artifactId>
15   <version>0.0.1-SNAPSHOT</version>
16   <name>spring-learn</name>
17   <description>Demo Spring Boot Project</description>
18   <properties>
19     <java.version>17</java.version>
20   </properties>
21   <dependencies>
22     <dependency>
23       <groupId>org.springframework.boot</groupId>
24       <artifactId>spring-boot-starter-web</artifactId>
25     </dependency>
26     <dependency>
27       <groupId>org.springframework.boot</groupId>
28       <artifactId>spring-boot-devtools</artifactId>
29       <scope>runtime</scope>
30       <optional>true</optional>
31     </dependency>
32     <dependency>
33       <groupId>org.springframework.boot</groupId>
34       <artifactId>spring-boot-starter-logging</artifactId>
35     </dependency>
36   </dependencies>
37   <build>
38     <plugins>
```

Output :

Port 8083 with Header

The screenshot shows a web browser window with a REST client interface. The address bar shows `localhost:8083/country`. The main area displays a JSON response: `{"code": "IN", "name": "India"}`. The right sidebar shows the request details for a GET request to `http://localhost:8083/country`. The response status is 200 OK. The response headers include `Content-Type: application/json`, `Date: Sun, 13 Jul 2025 08:26:03 GMT`, and `Keep-Alive: timeout=60`. The request headers include `Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7`.

