**REST - Get country based on country code:**

**//Country.xml**

<?xml version="1.0" encoding="UTF-8"?>

<country-list>

<country>

<code>IN</code>

<name>India</name>

</country>

<country>

<code>US</code>

<name>United States</name>

</country>

<country>

<code>JP</code>

<name>Japan</name>

</country>

</country-list>

**//Country.java**

package com.cognizant.spring\_learn.model;

import jakarta.xml.bind.annotation.XmlElement;

import jakarta.xml.bind.annotation.XmlRootElement;

import jakarta.xml.bind.annotation.XmlAccessorType;

import jakarta.xml.bind.annotation.XmlAccessType;

*@XmlRootElement*(name = "country")

*@XmlAccessorType*(*XmlAccessType*.***FIELD***)

public class Country {

*@XmlElement*

private String code;

*@XmlElement*

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;

}

}

**//CountryService.xml**

package com.cognizant.spring\_learn.service;

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

import com.cognizant.spring\_learn.model.CountryList;

import org.springframework.core.io.ClassPathResource;

import org.springframework.stereotype.Service;

import jakarta.xml.bind.JAXBContext;

import java.io.InputStream;

import java.util.List;

*@Service*

public class CountryService {

public Country getCountry(String code) {

List<Country> countries = getCountriesFromXml();

return countries.stream()

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

.findFirst()

.orElse(null);

}

private List<Country> getCountriesFromXml() {

try {

InputStream inputStream = new ClassPathResource("country.xml").getInputStream();

JAXBContext context = JAXBContext.*newInstance*(CountryList.class);

CountryList countryList = (CountryList) context.createUnmarshaller().unmarshal(inputStream);

return countryList.getCountries();

} catch (Exception e) {

throw new RuntimeException("Error reading country list");

}

}

}

**//CountryController.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 CountryController {

*@Autowired*

private CountryService countryService;

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

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

return countryService.getCountry(code);

}

}

**//SpringLearnApplication.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);

}

}

**//CountryList.java**

package com.cognizant.spring\_learn.model;

import jakarta.xml.bind.annotation.XmlElement;

import jakarta.xml.bind.annotation.XmlRootElement;

import jakarta.xml.bind.annotation.XmlAccessorType;

import jakarta.xml.bind.annotation.XmlAccessType;

import java.util.List;

*@XmlRootElement*(name = "country-list")

*@XmlAccessorType*(*XmlAccessType*.***FIELD***)

public class CountryList {

*@XmlElement*(name = "country")

private List<Country> countries;

public List<Country> getCountries() {

return countries;

}

public void setCountries(List<Country> countries) {

this.countries = countries;

}

}

**//pom.xml**

<?xml version="1.0" encoding="UTF-8"?>

<project 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/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>3.5.3</version>

<relativePath/>

</parent>

<groupId>com.cognizant</groupId>

<artifactId>spring-learn</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>spring-learn</name>

<description>Demo project for Spring Boot</description>

<url/>

<licenses>

<license/>

</licenses>

<developers>

<developer/>

</developers>

<scm>

<connection/>

<developerConnection/>

<tag/>

<url/>

</scm>

<properties>

<java.version>21</java.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>jakarta.xml.bind</groupId>

<artifactId>jakarta.xml.bind-api</artifactId>

<version>4.0.0</version>

</dependency>

<dependency>

<groupId>org.glassfish.jaxb</groupId>

<artifactId>jaxb-runtime</artifactId>

<version>4.0.5</version>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

</dependency>

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.ws</groupId>

<artifactId>spring-ws-core</artifactId>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>

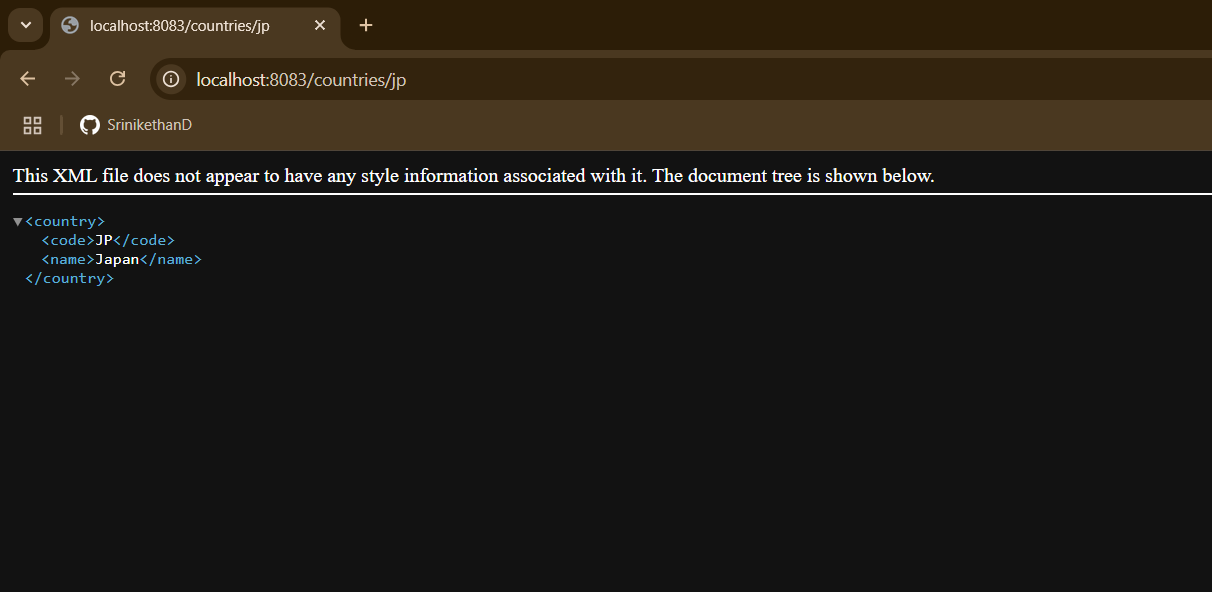
**//application.properties**

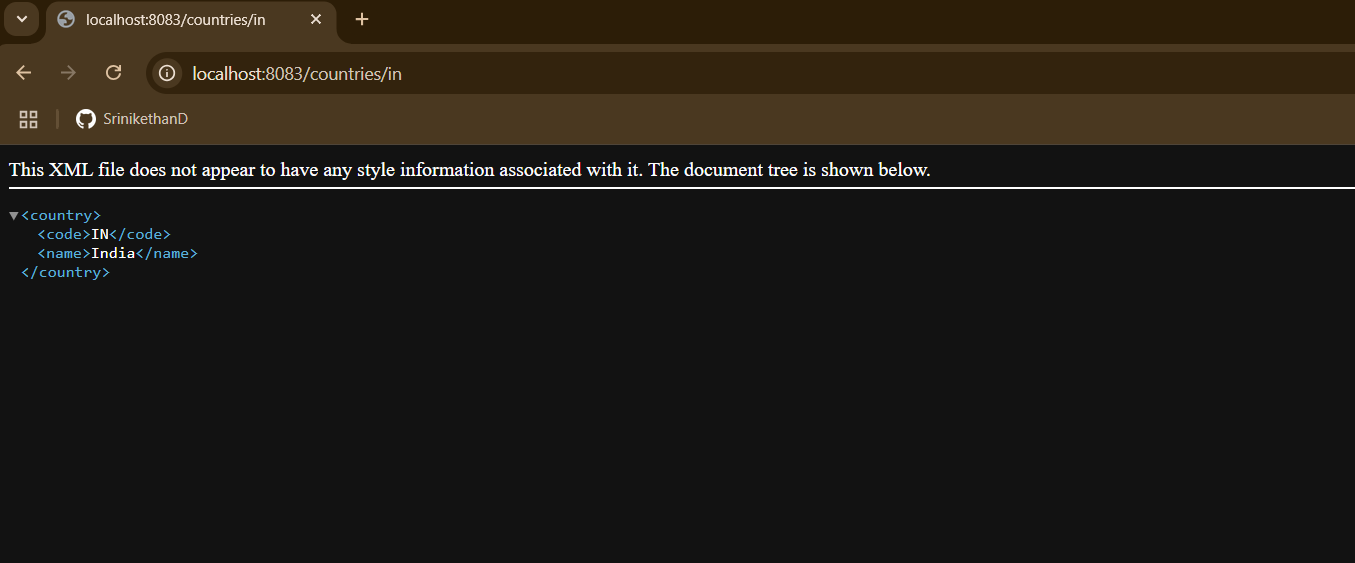
spring.application.name=spring\_learn

server.port=8083

logging.level.com.cognizant.spring\_learn=debug

**Output:**

****

****