EXERCISE 3: REST-Country Web Service:

**Solution:**

**SpringLearnApplication.java:**

package com.cognizant;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
import org.springframework.context.annotation.ImportResource;  
  
@SpringBootApplication  
@ImportResource("classpath:application-context.xml")  
public class SpringLearnApplication {  
 public static void main(String[] args) {  
 SpringApplication.*run*(SpringLearnApplication.class, args);  
 }  
}

**Country.java:**

package com.cognizant.model;  
  
public class Country {  
 private String code;  
 private String name;  
  
 // Default constructor  
 public Country() {  
 }  
  
 // Parameterized constructor  
 public Country(String code, String name) {  
 this.code = code;  
 this.name = 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;  
 }  
  
 @Override  
 public String toString() {  
 return "Country{" +  
 "code='" + code + '\'' +  
 ", name='" + name + '\'' +  
 '}';  
 }  
}

**CountryController.java:**

package com.cognizant.controller;  
  
import com.cognizant.model.Country;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.context.ApplicationContext;  
import org.springframework.web.bind.annotation.RequestMapping;  
import org.springframework.web.bind.annotation.RequestMethod;  
import org.springframework.web.bind.annotation.RestController;  
  
@RestController  
public class CountryController {  
  
 @Autowired  
 private ApplicationContext applicationContext;  
  
 @RequestMapping(value = "/country", method = RequestMethod.*GET*)  
 public Country getCountryIndia() {  
 // Load India bean from spring xml configuration  
 Country india = (Country) applicationContext.getBean("indiaCountry");  
 return india;  
 }  
}

**application.properties:**

server.port=8083  
spring.application.name=spring-learn

application-context.xml:

<?xml version="1.0" encoding="UTF-8"?>  
<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  
 http://www.springframework.org/schema/beans/spring-beans.xsd">  
  
 <bean id="indiaCountry" class="com.cognizant.model.Country">  
 <property name="code" value="IN"/>  
 <property name="name" value="India"/>  
 </bean>  
  
</beans>

**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  
 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>com.cognizant</groupId>  
 <artifactId>spring-learn</artifactId>  
 <version>1.0.0</version>  
 <packaging>jar</packaging>  
  
 <name>spring-learn</name>  
 <description>Spring Boot REST Service for Country Details</description>  
  
 <parent>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-parent</artifactId>  
 <version>2.7.0</version>  
 <relativePath/>  
 </parent>  
  
 <properties>  
 <java.version>11</java.version>  
 </properties>  
  
 <dependencies>  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-test</artifactId>  
 <scope>test</scope>  
 </dependency>  
 </dependencies>  
  
 <build>  
 <plugins>  
 <plugin>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-maven-plugin</artifactId>  
 </plugin>  
 </plugins>  
 </build>  
</project>

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AI-generated content may be incorrect.