**Spring REST using Spring Boot 3**

**EXERCISE: Spring Core - Load Country from Spring Configuration XML**

**Objective**

To build a simple Spring Core application using Maven that demonstrates how to:

\* Configure a `Country` bean using XML

\* Load the Spring context from the XML file

\* Access the bean in a Java class

**Tools Used**

IDE - Eclipse

Build Tool - Maven

Spring Core - 5.3.34 (via Maven)

Java Version - Java 17 or higher

Project Type - Maven

**Implementation**

1. Create a Maven Project:

1. Open Eclipse

2. Go to: `File > New > Maven Project`

3. Check: ✅ `Create a simple project (skip archetype selection)`

4. Click `Next`

5. Fill in the following:

\* Group Id: `com.example`

\* Artifact Id: `spring-core-country`

6. Click `Finish`

2. Add Spring Dependency to `pom.xml`

```xml

<dependencies>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>5.3.34</version>

</dependency>

</dependencies>

After saving `pom.xml`, do:

> Right-click project → Maven → Update Project → ✅ Force Update → OK

3. Create `Country` Java Bean

File: `src/main/java/com/example/springcore/Country.java`

```java

package com.example.springcore;

public class Country {

private String name;

private String capital;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getCapital() {

return capital;

}

public void setCapital(String capital) {

this.capital = capital;

}

@Override

public String toString() {

return "Country{name='" + name + "', capital='" + capital + "'}";

}

}

4. Create Spring Configuration File

File: `src/main/resources/spring-config.xml`

```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="country" class="com.example.springcore.Country">

<property name="name" value="India"/>

<property name="capital" value="New Delhi"/>

</bean>

</beans>

5. Create the Main App to Load the Bean

File: `src/main/java/com/example/springcore/TestApp.java`

```java

package com.example.springcore;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class TestApp {

public static void main(String[] args) {

ApplicationContext context = new ClassPathXmlApplicationContext("spring-config.xml");

Country country = (Country) context.getBean("country");

System.out.println("Loaded Country: " + country);

}

}

**Output**

When you run `TestApp.java`, the console should display:

```

Loaded Country: Country{name='India', capital='New Delhi'}

```

