**Spring REST using Spring Boot 3**

**1. spring-rest-handson**

**Spring Core – Load Country from Spring Configuration XML**

* **src/main/java/com/cognizant/spring\_learn**

**Country.java**

package com.cognizant.spring\_learn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class Country {

private static final Logger *LOGGER* = LoggerFactory.*getLogger*(Country.class);

private String code;

private String name;

public Country() {

*LOGGER*.debug("Inside Country Constructor.");

}

public String getCode() {

*LOGGER*.debug("Getting code: {}", code);

return code;

}

public void setCode(String code) {

*LOGGER*.debug("Setting code: {}", code);

this.code = code;

}

public String getName() {

*LOGGER*.debug("Getting name: {}", name);

return name;

}

public void setName(String name) {

*LOGGER*.debug("Setting name: {}", name);

this.name = name;

}

@Override

public String toString() {

return "Country [code=" + code + ", name=" + name + "]";

}

}

* **src/main/resources**

**country.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*

*https://www.springframework.org/schema/beans/spring-beans.xsd"*>

<bean id=*"country"* class=*"com.cognizant.spring\_learn.Country"*>

<property name=*"code"* value=*"IN"*/>

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

</bean>

</beans>

* **src/main/java/com/cognizant/spring\_learn**

**SpringLearnApplication.java**

package com.cognizant.spring\_learn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class SpringLearnApplication {

private static final Logger *LOGGER* = LoggerFactory.*getLogger*(SpringLearnApplication.class);

public static void main(String[] args) {

*LOGGER*.info("START");

*displayCountry*();

*LOGGER*.info("END");

}

public static void displayCountry() {

try (ClassPathXmlApplicationContext context = new

ClassPathXmlApplicationContext("country.xml")) {

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

*LOGGER*.debug("Country : {}", country.toString());

}

}

}

* **Detailing few aspects:**

**<bean> tag :** Declares a bean definition in Spring XML

**Id:** Identifier used to retrieve the bean (country)

**Class:** Fully qualified name of the Java class

**<property>:** Used to set values of instance variables

**ApplicationContext:** Central Spring interface for accessing beans

**ClassPathXmlApplicationContext:** Loads the XML from src/main/resources

**context.getBean():** Fetches the bean instance using ID and type

* **OUTPUT:**

