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

**Spring REST using Spring Boot 3**

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This Spring Core application demonstrates how to use **Spring’s XML-based configuration** to define and inject a list of country beans. The goal is to simulate retrieving and displaying country data, such as for an airline website, using traditional Spring dependency injection and logging mechanisms.

**Objective:**

* To create and configure multiple Spring beans representing countries using the country.xml file.
* To load a list of country objects into an ArrayList bean using XML <list> and <ref> tags.
* To programmatically retrieve and display the list of countries using a Java class (SpringlearnApplication) with debug-level logging via SLF4J.

**Implementation:**

### Generate Project from Spring Initializr

Go to: [https://start.spring.io](https://start.spring.io" \t "_new)

Set:

Group: com.cognizant

Artifact: spring-learn

Add Dependencies:

Spring Web

Spring Boot DevTools.

Click **Generate**, and download the .zip file.

Extract the zip file to a suitable folder.

### Open Project in IntelliJ IDEA

Open IntelliJ IDEA.

Click **File > Open**.

Browse and select the extracted spring-learn folder.

IntelliJ will auto-detect it as a Maven project and build it.

If prompted to import as Maven project, click **Yes** or **Import**.

**SpringlearnApplication.java:**

package com.cognizant.springlearn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import java.util.List;

public class SpringlearnApplication {

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

public static void main(String[] args) {

LOGGER.info("START main()");

System.out.println("Main method started");

try {

ClassPathXmlApplicationContext context = new ClassPathXmlApplicationContext("country.xml");

List<Country> countryList = (List<Country>) context.getBean("countryList");

System.out.println("Loaded countries: " + countryList.size());

for (Country country : countryList) {

System.out.println("Country: " + country); // fallback print

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

}

context.close();

} catch (Exception e) {

System.out.println("Error: " + e.getMessage());

e.printStackTrace();

}

LOGGER.info("END main()");

}

}

**Country.java:**

package com.cognizant.springlearn;

public class Country {

private String code;

private String name;

public Country() {

}

public Country(String code, String name) {

this.code = code;

this.name = name;

}

public String getCode() {

return code;

}

public void setCode(String code) {

this.code = code;

}

@Override

public String toString() {

return "Country{" + "code='" + code + '\'' + ", name='" + name + '\'' + '}';

}

}

**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

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

<bean id="in" class="com.cognizant.springlearn.Country">

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

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

</bean>

<bean id="us" class="com.cognizant.springlearn.Country">

<property name="code" value="US"/>

<property name="name" value="United States"/>

</bean>

<bean id="de" class="com.cognizant.springlearn.Country">

<property name="code" value="DE"/>

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

</bean>

<bean id="jp" class="com.cognizant.springlearn.Country">

<property name="code" value="JP"/>

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

</bean>

<bean id="fr" class="com.cognizant.springlearn.Country">

<property name="code" value="FR"/>

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

</bean>

<bean id="uk" class="com.cognizant.springlearn.Country">

<property name="code" value="UK"/>

<property name="name" value="United Kingdom"/>

</bean>

<bean id="au" class="com.cognizant.springlearn.Country">

<property name="code" value="AU"/>

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

</bean>

<bean id="ca" class="com.cognizant.springlearn.Country">

<property name="code" value="CA"/>

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

</bean>

<bean id="cn" class="com.cognizant.springlearn.Country">

<property name="code" value="CN"/>

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

</bean>

<bean id="br" class="com.cognizant.springlearn.Country">

<property name="code" value="BR"/>

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

</bean>

<bean id="countryList" class="java.util.ArrayList">

<constructor-arg>

<list>

<ref bean="in"/>

<ref bean="us"/>

<ref bean="de"/>

<ref bean="jp"/>

<ref bean="fr"/>

<ref bean="uk"/>

<ref bean="au"/>

<ref bean="ca"/>

<ref bean="cn"/>

<ref bean="br"/>

</list>

</constructor-arg>

</bean>

</beans>

**Application.properties:**

org.slf4j.simpleLogger.defaultLogLevel=debug

org.slf4j.simpleLogger.showDateTime=true

org.slf4j.simpleLogger.showThreadName=true

org.slf4j.simpleLogger.dateTimeFormat=yyyy-MM-dd HH:mm:ss

**Output:**

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