**Hands on 4**

**Spring Core – Load Country from Spring Configuration XML**   
  
 An airlines website is going to support booking on four countries. There will be a drop down on the home page of this website to select the respective country. It is also important to store the two-character ISO code of each country.

| **Code** | **Name** |
| --- | --- |
| US | United States |
| DE | Germany |
| IN | India |
| JP | Japan |

Above data has to be stored in spring configuration file. Write a program to read this configuration file and display the details.

*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 Counstructor.");

}

public String getCode() {

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

return code;

}

public void setCode(String code) {

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

this.code = code;

}

public String getName() {

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

return name;

}

public void setName(String name) {

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

this.name = name;

}

@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="countryIN" class="com.cognizant.spring\_learn.Country">

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

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

</bean>

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

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

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

</bean>

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

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

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

</bean>

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

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

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

</bean>

</beans>

*SpringLearnApplication.java:*

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import java.util.\*;

@SpringBootApplication

public class SpringLearnApplication {

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

public static void main(String[] args) {

SpringApplication.run(SpringLearnApplication.class, args);

displayCountry();

}

public static void displayCountry() {

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

String[] countryBeansName = context.getBeanNamesForType(Country.class);

LOGGER.info("Found {} countries:", countryBeansName.length);

for (String beanName : countryBeansName) {

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

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

}

}

}

