

Spring Core – Load Country from Spring Configuration XML

Created required maven project from spring initializer

Project
☐ Gradle - Groovy
☐ Gradle - Kotlin
☒ Maven

Language
☒ Java
☐ Kotlin
☐ Groovy

Spring Boot
☐ 4.0.0 (SNAPSHOT)
☐ 3.5.4 (SNAPSHOT)
☒ 3.5.3
☐ 3.4.8 (SNAPSHOT)
☐ 3.4.7

Project Metadata

Group

com.cognizant.springlearn

Artifact

spring-learn

Name

spring-learn

Description

Spring Web Project

Package name

com.cognizant.springlearn.spring-learn

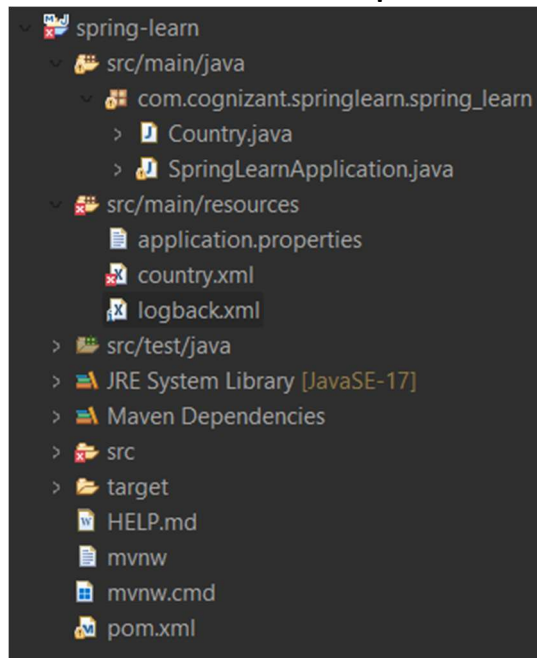
Packaging

☒ Jar
☐ War

Java

☐ 24
☐ 21
☒ 17

Downloaded the zip file and imported it into Eclipse



Added country.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4       xsi:schemaLocation="http://www.springframework.org/schema/beans
5                           https://www.springframework.org/schema/beans/spring-beans.xsd">
6
7     <!-- Define a list of countries -->
8     <bean id="countryList" class="java.util.ArrayList">
9         <constructor-arg>
10             <list>
11                 <bean class="com.cognizant.springlearn.spring_learn.Country">
12                     <property name="code" value="US" />
13                     <property name="name" value="United States" />
14                 </bean>
15                 <bean class="com.cognizant.springlearn.spring_learn.Country">
16                     <property name="code" value="DE" />
17                     <property name="name" value="Germany" />
18                 </bean>
19                 <bean class="com.cognizant.springlearn.spring_learn.Country">
20                     <property name="code" value="IN" />
21                     <property name="name" value="India" />
22                 </bean>
23                 <bean class="com.cognizant.springlearn.spring_learn.Country">
24                     <property name="code" value="JP" />
25                     <property name="name" value="Japan" />
26                 </bean>
27             </list>
28         </constructor-arg>
29     </bean>
30 </beans>
```

Added Country.java

```
1 package com.cognizant.springlearn.spring_learn;
2 import org.slf4j.Logger;
3 import org.slf4j.LoggerFactory;
4 public class Country {
5     private static final Logger LOGGER = LoggerFactory.getLogger(Country.class);
6     private String code;
7     private String name;
8     public Country() {
9         LOGGER.debug("Inside Country Constructor.");
10    }
11    public String getCode() {
12        LOGGER.debug("Getting code: {}", code);
13        return code;
14    }
15    public void setCode(String code) {
16        LOGGER.debug("Setting code: {}", code);
17        this.code = code;
18    }
19    public String getName() {
20        LOGGER.debug("Getting name: {}", name);
21        return name;
22    }
23    public void setName(String name) {
24        LOGGER.debug("Setting name: {}", name);
25        this.name = name;
26    }
27    @Override
28    public String toString() {
29        return "Country [code=" + code + ", name=" + name + "]";
30    }
31 }
```

Updated SpringLearnApplication.java with main() method

```
1 package com.cognizant.springlearn.spring_learn;
2
3 import java.util.List;
4 import org.slf4j.Logger;
5 import org.slf4j.LoggerFactory;
6 import org.springframework.context.ApplicationContext;
7 import org.springframework.context.support.ClassPathXmlApplicationContext;
8
9 public class SpringLearnApplication {
10
11     private static final Logger LOGGER = LoggerFactory.getLogger(SpringLearnApplication.class);
12
13     public static void main(String[] args) {
14         LOGGER.debug("START");
15         displayCountries();
16         LOGGER.debug("END");
17     }
18
19     public static void displayCountries() {
20         ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
21         List<Country> countries = (List<Country>) context.getBean("countryList");
22
23         for (Country country : countries) {
24             LOGGER.debug("Country : {}", country.toString());
25         }
26     }
27 }
```

Added logback.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <configuration>
3   <appender name="STDOUT" class="ch.qos.logback.core.ConsoleAppender">
4     <encoder>
5       <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>
6     </encoder>
7   </appender>
8
9   <root level="DEBUG">
10     <appender-ref ref="STDOUT" />
11   </root>
12 </configuration>
```

Output:

```
22:23:44.341 [main] DEBUG c.c.s.s.SpringLearnApplication - START
22:23:44.419 [main] DEBUG o.s.c.s.ClassPathXmlApplicationContext - Refreshing org.springframework.context.support.ClassPathXmlApplicationContext@318ba8c8
22:23:44.638 [main] DEBUG o.s.b.f.xml.XmlBeanDefinitionReader - Loaded 1 bean definitions from class path resource [country.xml]
22:23:44.676 [main] DEBUG o.s.b.f.s.DefaultListableBeanFactory - Creating shared instance of singleton bean 'countryList'
22:23:44.696 [main] DEBUG c.c.springlearn.spring_learn.Country - Inside Country Constructor.
22:23:44.736 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting code: US
22:23:44.737 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting name: United States
22:23:44.740 [main] DEBUG c.c.springlearn.spring_learn.Country - Inside Country Constructor.
22:23:44.740 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting code: DE
22:23:44.740 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting name: Germany
22:23:44.740 [main] DEBUG c.c.springlearn.spring_learn.Country - Inside Country Constructor.
22:23:44.741 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting code: IN
22:23:44.741 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting name: India
22:23:44.741 [main] DEBUG c.c.springlearn.spring_learn.Country - Inside Country Constructor.
22:23:44.741 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting code: JP
22:23:44.741 [main] DEBUG c.c.springlearn.spring_learn.Country - Setting name: Japan
22:23:44.808 [main] DEBUG c.c.s.s.SpringLearnApplication - Country : Country [code=US, name=United States]
22:23:44.808 [main] DEBUG c.c.s.s.SpringLearnApplication - Country : Country [code=DE, name=Germany]
22:23:44.808 [main] DEBUG c.c.s.s.SpringLearnApplication - Country : Country [code=IN, name=India]
22:23:44.808 [main] DEBUG c.c.s.s.SpringLearnApplication - Country : Country [code=JP, name=Japan]
22:23:44.808 [main] DEBUG c.c.s.s.SpringLearnApplication - END
```