**Hands on 2**

**Spring Core – Load SimpleDateFormat from Spring Configuration XML**   
  
SimpleDateFormat with the pattern ‘dd/MM/yyyy’ is created in multiple places of an application. To avoid creation of SimpleDateFormat in multiple places, define a bean in Spring XML Configuration file and retrieve the date.  
  
Follow steps below to implement:

* Create spring configuration file date-format.xml in src/main/resources folder of 'spring-learn' project
* Open https://docs.spring.io/spring-framework/docs/current/spring-framework-reference/core.html#beans-factory-metadata
* Copy the XML defined in the section of previous step URL and paste it into date-format.xml
* Define bean tag in the XML with for date format. Refer code below.

<?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="dateFormat" class="java.text.SimpleDateFormat">

<constructor-arg value="dd/MM/yyyy" />

</bean>

</beans>

* Create new method displayDate() in SpringLearnApplication.java
* In displayDate() method create the ApplicationContext. Refer code below:

ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");

* Get the dateFormat using getBean() method. Refer code below.

SimpleDateFormat format = context.getBean("dateFormat", SimpleDateFormat.class);

* Using the format variable try to parse string '31/12/2018' to Date class and display the result using System.out.println.
* Run the application as 'Java Application' and check the result in console log output.

**Hands On Solution**

Steps:

1. Created date-format.xml in src/main/java
2. Code for date-format.xml as follows:

<?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="dateFormat" class="java.text.SimpleDateFormat">

<constructor-arg value="dd/MM/yyyy" />

</bean>

</beans>

3.Add displayDate() method in SpringLearnApplication.java

public static void displayDate() {

ApplicationContext context = new ClassPathXmlApplicationContext("date-format.xml");

SimpleDateFormat format = context.getBean("dateFormat", SimpleDateFormat.class);

try {

Date date = format.parse("31/12/2018");

System.out.println("Parsed Date: " + date);

} catch (ParseException e) {

e.printStackTrace();

}

}

1. Import packages are as follows:

import java.text.SimpleDateFormat;

import java.text.ParseException;

import java.util.Date;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

1. Call displayDate() from main()
2. Run as java application
3. Output are as follows:

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AI-generated content may be incorrect.

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