**Spring @Required 注释**

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**@Required** 注释应用于 bean 属性的 setter 方法，它表明受影响的 bean 属性在配置时必须放在 XML 配置文件中，否则容器就会抛出一个 BeanInitializationException 异常。下面显示的是一个使用 @Required 注释的示例。

**示例：**

下面是 **Student.java** 文件的内容：

package com.tutorialspoint;

import org.springframework.beans.factory.annotation.Required;

public class Student {

private Integer age;

private String name;

@Required

public void setAge(Integer age) {

this.age = age;

}

public Integer getAge() {

return age;

}

@Required

public void setName(String name) {

this.name = name;

}

public String getName() {

return name;

}

}

下面是 **MainApp.java** 文件的内容：

package com.tutorialspoint;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class MainApp {

public static void main(String[] args) {

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

Student student = (Student) context.getBean("student");

System.out.println("Name : " + student.getName() );

System.out.println("Age : " + student.getAge() );

}

}

下面是配置文件 **Beans.xml:** 文件的内容：

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:context="http://www.springframework.org/schema/context"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context-3.0.xsd">

<context:annotation-config/>

<!-- Definition for student bean -->

<bean id="student" class="com.tutorialspoint.Student">

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

<!-- try without passing age and check the result -->

<!-- property name="age" value="11"-->

</bean>

</beans>

一旦你已经完成的创建了源文件和 bean 配置文件，让我们运行一下应用程序。如果你的应用程序一切都正常的话，这将引起 *BeanInitializationException* 异常，并且会输出一下错误信息和其他日志消息：

Property 'age' is required for bean 'student'

下一步，在你按照如下所示从 “age” 属性中删除了注释，你可以尝试运行上面的示例：

<?xml version="1.0" encoding="UTF-8"?>

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:context="http://www.springframework.org/schema/context"

xsi:schemaLocation="http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context-3.0.xsd">

<context:annotation-config/>

<!-- Definition for student bean -->

<bean id="student" class="com.tutorialspoint.Student">

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

<property name="age" value="11"/>

</bean>

</beans>

现在上面的示例将产生如下结果：

Name : Zara

Age : 11