实验 11: bean 的生命周期

bean生命周期

- 1、bean对象创建 (调用无参数构造)
- 2、给bean对象设置相关属性
- 3、bean后置处理器 (初始化之前)
- 4、bean对象初始化 (调用指定初始化方法)
- 5、bean后置处理器 (初始化之后)
- 6、bean对象创建完成了,可以使用了
- 7、bean对象销毁(配置指定销毁的方法)
- 8、IoC容器关闭了

环境准备:

1、

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🔋 Eile Edit View Navigate Code Befactor Build Run Iools VCS Window Help spring6 - User-Java (spring6-ioc-xmll) - Administrator – 🗗 🗙
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     ■ Project ▼ ② 至 🛨 🌣 — © User.java ×
                                  2
        spring6-ioc-xml
                                   3
                                           public class User {
              ∨ I com.atguigu.spring6.iocxm
                                                 //无参数构造
                > to bean
> to di
> to dimap
                                   5
                                   6
                                                 public User() {
                > 🛅 ditest
                                   7
                                                      System.out.println("1 bean对象创建,调用无参数构造");
                > Dijdbc
                                   8
          © User
            > in resources
                                                 private String name;
           > mtest
      > lim target
                                  10
      > spring-first
                                  11
                                                 public String getName() {
     m pom.xml

lili External Libraries

Scratches and Consoles
                                  12
                                                      return name;
                                  13
                                  14
                                                 public void setName(String name) {
  ıcture
2
```

```
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                            7
                                              System.out.println("1 bean对象创建,调用无参数核点
   spring6-ioc-xml
                                         }
                            8
        ∨ iava
                            9
          ∨ 🖿 com.atguigu.spring6.iocxm
                                         2 usages
            > 🛅 bean
            > Padi
                           10
                                         private String name;
           > 🛅 ditest
                           11
           > bijdbc
       © User
                                         public String getName() {
            > 🗀 scope
                            13
                                             return name;
        > resources
                           14
   > marget
                           15
                                         public void setName(String name) {
  > spring-first
                                              System.out.println("2 给bean对象设置属性值");
                           16
 17
                                              this.name = name;
  Scratches and Consoles
                           18
                                         }
                           19 }
```

```
//初始化的方法
         1 usage
         public void initMethod() {
               System.out.println("4 bean对象初始化,调用指定的初始化的方法");
         //销毁的方法
         1 usage
         public void destroyMethod() {
               System.out.println("7 bean对象销毁,调用指定的销毁的方法");
测试:
 🚇 Eile Edit View Navigate Code Befactor Build Run Iools VCS Window Help spring6 - bean-lifexml [spring6-ioc-xml] - Administrator
                                                                                \mathbf{spring6} \ \rangle \ \mathbf{spring6\text{-}ioc\text{-}xml} \ \rangle \ \mathsf{src} \ \rangle \ \mathsf{main} \ \rangle \ \mathsf{resources} \ \rangle \ \underset{}{\overset{}{\underset{}\underset{}{\overset{}\underset{}{\underset{}}{\overset{}\underset{}{\underset{}}{\overset{}}{\underset{}}{\underset{}}{\overset{}}{\underset{}}}}}} \ \mathsf{bean\text{-}life} xml
 1
           <?xml version="1.0" encoding="UTF-8"?>
                                                                                                            A2 22 A
         <beans xmlns="http://www.springframework.org/schema/beans"</pre>
    2
                    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    4
                  xsi:schemaLocation="http://www.springframework.org/schema/beans http://www
    5
                 <bean id="user" class="com.atguigu.spring6.iocxml.life.User"</pre>
    6
    7
                        scope="singleton" init-method="initMethod" destroy-method="destroyMethod
    8
                      cproperty name="name" value="lucy"></property>
    9
                 </bean>
   10
           </beans>
 Eile Edit View Navigate Code Refactor Build Run Tools VCS Window Help spring6 - TestUser.java [spring6-ioc-xmil] - Adm
spring6 | spring6-loc-xml | src | main | java | com | atguigu | spring6 | iocxml | iffe | & TestUser | & main 🚁 🔨 📉 com.atguigu.spring6.iocxmLlife.TestUser 🔻 🕨 🚨 🐔 🐍 🕶 🔳 🔍 👔 🔊
          import org.springframework.context.ApplicationContext;
   4
          import org.springframework.context.support.ClassPathXmlApplicationContext;
   5
   6
          public class TestUser {
   7
   8
                public static void main(String[] args) {
   9
                     $\tassPathXmlApplicationContext context =
  10
                               new ClassPathXmlApplicationContext( configLocation: "bean-life.xml")
                     User user = context.getBean( name: "user", User.class);
  11
                     System.out.println("6 bean对象创建完成了,可以使用了");
  12
                     System.out.println(user);
¥ 13
 14
                     context.close(); //銷毀
                                                             这个实现类有该方法
 15
16
```

结果:

```
A1 ^
         System.out.println("6 bean对象创建完成了,可以使用了");
         System.out.println(user);
         context.close(); //銷毀
     }
 }
omatguigu.spring6.ioxml.life.TestUser ×
בסבב-12-13 בס:בוברון אסס נוומבוון טבטטט טויק.sprizingTrannework.concext.support.ctassrat
2022-12-13 15:11:11 589 [main] DEBUG org.springframework.beans.factory.xml.XmlBea
2022-12-13 15:11:11 629 [main] DEBUG org.springframework.beans.factory.support.De
1 bean对象创建,调用无参数构造
2 给bean对象设置属性值
4 bean对象初始化,调用指定的初始化的方法
6 bean对象创建完成了,可以使用了
com.atguigu.spring6.iocxml.life.User@1c6804cd
2022-12-13 15:11:11 700 [main] DEBUG org.springframework.context.support.ClassPat
7 bean对象销毁,调用指定的销毁的方法
```

环境准备:补充第三步和第五步:

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🕽 main / java / com / atguigu / spring6 / iocxml | life / ® MyBeanPost / ® postProcessBeforeInitialization | 👺 | 🔨 | | com.atguigu.spring6.iocxml.life.TestUser 🗸 | 🗯 🤹 🔆 🔻 | |
 © User.java × 🚜 bean-life.xml × 💣 TestUser.java × 💿 MyBeanPost.java × 📵 BeanPostProcessor.java
 6
           public class MyBeanPost | implements BeanPostProcessor {
 7
 8
                @Override
 9 01
                public Object postProcessBeforeInitialization(Object bean,
10
                                                                           String beanName) throws BeansE
11
                     System.out.println("3 bean后置处理器, 初始化之前执行");
12
                     System.out.println(beanName+"::"+bean);
                     return bean;
13
14
                }
15
16
                @Override
17 o↑
                public Object postProcessAfterInitialization(Object bean,
18
                                                                          String beanName) throws BeansEx
Eile Edit View Navigate Code Befactor Build Run Iools VCS Window Help spring6 - MyBeanPost.java [spring6-ioc-xml] - Administrator
c ) main ) java ) com ) atguigu ) spring6 ) iocxml ) life ) 🖲 MyBeanPost ) 🖷 postProcessAfterInitialization 🔝 👢 🤍 🧰 com.atguigu.spring6.iocxmLlife.TestUser 🗸 🖟 🕵 🕓 👚
                      System.out.printin( 3 bean 归 直处理益, 彻 炻 化 人 削 从 仃 一 );
II
                      System.out.println(beanName+"::"+bean);
12
13
                      return bean;
14
                 }
15
                 @Override
16
                 public Object postProcessAfterInitialization(Object bean,
17 of
                                                                                String beanName) throws Be
18
                      System.out.println("5_bean后置处理器,初始化之后执行");
19
20
                      System.out.println(beanName+"::"+bean);
21
                      return bean;
22
                 }
23
           }
```

测试:

```
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oring6 > spring6-ioc-xml > src > main > resources > 🚜 bean-life.xml
                                                 - B → Com.atguigu.spring6.iocxml.life.TestUser → - M ← G ← M ← M ← Q ← M
3
              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
              xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.
 4
 5
           <bean id="user" class="com.atguigu.spring6.iocxml.life.User"</pre>
 6
                 scope="singleton" init-method="initMethod" destroy-method="destroyMethod"
 7
               cproperty name="name" value="lucy"></property>
 8
 9
           </bean>
10
           <!-- bean的后置处理器要放入IOC容器才能生效 -->
11
12
           <bean id="myBeanPost" class="com.atguigu.spring6.iocxml.life.MyBeanPost"/>
13
       </beans>
```

结果:

