SPRING

MAVEN:

POM.XML

<project xmlns=*"http://maven.apache.org/POM/4.0.0"* xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"*>

<modelVersion>4.0.0</modelVersion>

<groupId>com.hexa</groupId>

<artifactId>BeanInjection</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>BeanInjection</name>

<url>http://maven.apache.org</url>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<maven.compiler.source>1.8</maven.compiler.source>

<maven.compiler.target>1.8</maven.compiler.target>

</properties>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

// SPRING FRAMEWORK DEPENDENCY

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>4.3.2.RELEASE</version>

</dependency>

</dependencies>

</project>

BEAN.XML IN RESOURCE FOLDER INSIDE MAIN FOLDER:

<?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:aop=*"http://www.springframework.org/schema/aop"*

xmlns:tx=*"http://www.springframework.org/schema/tx"* 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*

*http://www.springframework.org/schema/tx*

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

*http://www.springframework.org/schema/aop*

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

<!-- We have say which bean we are instructing ioc to create the instance-->

<bean id=*"myser"* class =*"com.hexa.service.SerImpl"* lazy-init=*"true"* >

<!-- it will call the setDao method -->

<property name=*"dao"* ref=*"mydao"* ></property> <!-- lazy initialisation-->

</bean>

<bean id=*"mydao"* class =*"com.hexa.dao.JdbcDaoImpl"* lazy-init=*"true"*></bean>

</beans>

PACKAGES

COM.HEXA.Dao

Idao(interface)

**package** com.hexa.dao;

**public** **interface** Idao {

**public** String ViewData();

}

---

JdbcDaoImpl(class)

**package** com.hexa.dao;

**public** **class** JdbcDaoImpl **implements** Idao {

**public** JdbcDaoImpl() {

System.***out***.println("constructor");

}

@Override

**public** String ViewData() {

**return** "jdbc";

}

}

Com.hexa.service

Iser(interface)

**package** com.hexa.service;

**public** **interface** Iser {

String getData();

}

---

SerImpl(class)

**package** com.hexa.service;

**import** com.hexa.dao.Idao;

**public** **class** SerImpl **implements** Iser {

**private** Idao dao;

// setter is for Spring Ioc to do dependency Injection

@Override

**public** String getData() {

**return** dao.ViewData();

}

**public** SerImpl() {

System.***out***.println("service constructor");

}

**public** **void** setDao(Idao dao) {

System.***out***.println("dao is injected");

**this**.dao = dao;

}

}

---

Com.hexa.client:

package com.hexa.client;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import com.hexa.service.Iser;

public class ClientA {

private static ApplicationContext ctx;

static {

ctx = new ClassPathXmlApplicationContext("beans.xml");

}

public static void main(String[] args) {

System.out.println("inside main");

Iser ser= ctx.getBean("myser",Iser.class);

System.out.println(ser.getData());

}

}

----

Src folder🡪main🡪resources🡪 bean.xml

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

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

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

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

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*http://www.springframework.org/schema/aop*

[*http://www.springframework.org/schema/aop/spring-aop-3.0.xsd*](http://www.springframework.org/schema/aop/spring-aop-3.0.xsd)*"*>

<!-- We have say which bean we are instructing ioc to create the instance

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<!-- it will call the setDao method

<property name="dao" ref="mydao" ></property> <!-- lazy initialisation

</bean>

<bean id="mydao" class ="com.hexa.dao.FileDaoImpl">

<property name="fname" value="hexa.txt" ></property>

</bean>

-->

<!-- We have say which bean we are instructing ioc to create the instance-->

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</dependency>

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<artifactId>spring-context</artifactId>

<version>4.3.2.RELEASE</version>

</dependency>

</dependencies>

</project>