Library DAO Tutorial

Step 9: Hibernate Version – Spring Configuration Changes for Hibernate

SOFTWARE GUILD

Step 9: Hibernate Version – Spring Configuration Changes for Hibernate

Overview

Now we will add entries to the Spring configuration file so that we'll be able to use our new DAO.

Notes:

We add a bean definition for the Hibernate implementation of our DAO.

1. We add a bean definition for the Hibernate SessionFactory. We specify the following:
    a. The data source to be used
    b. The packages to scan for relational mapping annotations
    c. The particular database dialect that Hibernate should use

```xml
<?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"
       xmlns:tx="http://www.springframework.org/schema/tx"
       xmlns:aop="http://www.springframework.org/schema/aop"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
   http://www.springframework.org/schema/beans/spring-beans.xsd
   http://www.springframework.org/schema/mvc
   http://www.springframework.org/schema/mvc/spring-mvc.xsd
   http://www.springframework.org/schema/tx
   http://www.springframework.org/schema/tx/spring-tx-3.0.xsd
   http://www.springframework.org/schema/context
   http://www.springframework.org/schema/context/spring-context.xsd
   http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-3.2.xsd">

    <!-- Bean definitions go here -->
    <tx:annotation-driven/>

    <context:component-scan base-package="com.swcguild.library.dao" />

    <bean id="dataSource"
          class="org.apache.commons.dbcp.BasicDataSource">
        <property name="driverClassName" value="com.mysql.jdbc.Driver"/>
        <property name="url"
                  value="jdbc:mysql://localhost:3306/library_test"/>
        <property name="username" value="root"/>
        <property name="password" value="root"/>
        <property name="initialSize" value="5"/>
        <property name="maxActive" value="10"/>
    </bean>
```

```xml
    <bean id="transactionManager"
          class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
        <property name="dataSource" ref="dataSource"/>
    </bean>

    <bean id="jdbcTemplate"
          class="org.springframework.jdbc.core.JdbcTemplate">
        <property name="dataSource" ref="dataSource"/>
    </bean>

    <bean id="libraryDao" class="com.swcguild.library.dao.LibraryDaoDbImpl">
        <property name="jdbcTemplate" ref="jdbcTemplate"/>
    </bean>

    <bean id="hibernateLibraryDao"
class="com.swcguild.library.dao.LibraryDaoHibernateImpl">
        <constructor-arg ref="sessionFactory"/>
    </bean>

    <!-- HIBERNATE CONFIGURATION -->
    <bean id="sessionFactory"

class="org.springframework.orm.hibernate3.annotation.AnnotationSessionFactoryBean">
        <property name="dataSource" ref="dataSource" />
        <property name="packagesToScan"
                  value="com.swcguild.library.model" />
        <property name="hibernateProperties">
            <props>
                <prop key="dialect">org.hibernate.dialect.MySQLDialect</prop>
            </props>
        </property>
    </bean>
</beans>
```