

# Spring-Hibernate Integration

### Integrate Hibernate With Spring

- The Hibernate configuration can be defined in spring's context xml
- SessionFactory can use any pooled database connection bean available in spring
- DAO classes can get access to SessionFactory via dependency injection



#### Choose A Datasource

<u>This can also be a Appserver controlled JNDI based connection pool. Mandatory</u> for JTA transactions



#### Configuring Session Factory

```
<bean id="mySessionFactory"</pre>
class="org.springframework.orm.hibernate4.LocalSessionFactoryBean">
  cproperty name="dataSource" ref="dataSource"/>
  cproperty name="mappingResources">
     st>
        <value>Users.hbm.xml</value>
        <value>Orders.hbm.xml</value>
     </list>
  property name="hibernateProperties">
     <value>
        hibernate.dialect=org.hibernate.dialect.DerbyDialect
        hibernate.show_sql=true
     </value>
  </bean>
```



### Changes to DaoImpl



#### Transactions With Spring

```
<bean id="txManager"</pre>
class="org.springframework.orm.hibernate4.HibernateTransactionManager">
   cproperty name="sessionFactory" ref="mySessionFactory" />
</bean>
<tx:advice id="txAdvice" transaction-manager="txManager">
     <tx:attributes>
      <tx:method name="*" propagation="REQUIRED"/>
   </tx:attributes>
</tx:advice>
<aop:config>
   <aop:pointcut id="userOperations" expression="execution(*)</pre>
com.mydomain.service.UserManagerImpl.*(..))"/>
   <aop:advisor advice-ref="txAdvice" pointcut-ref="userOperations"/>
</aop:confiq>
```



#### Lets Try It

- Create a method "generateOrder" that takes a user id and creates a record in the Order table. Throw an exception if User name is "admin" because admin cannot have orders
- Create a method "generateOrders" in UserManager that generates an order for each user in the database with the help of above method.

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## Obtaining Connections For Managed Transactions

```
Session ses = getSessionFactory().getCurrentSession();
List<User> users = ses.createQuery("select u from User u").list();
return users;
```



#### Propagation Configuration

 Change propagation configuration so that we succeed in creating orders for other users even if there is failure for one