Spring + Hibernate

```
package com.softserve.edu.entity;
import java.io. Serializable;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import org.hibernate.annotations.GenericGenerator;
@Entity
public class MyEntity implements Serializable {
 private static final long serialVersionUID = 382157955767771714L;
 @Column(name = "uuid")
 @GeneratedValue(generator = "system-uuid")
 @GenericGenerator(name = "system-uuid", strategy = "uuid")
 private String id;
 @Column(name = "name")
 private String name;
 public MyEntity() {
 public MyEntity(String id, String name) {
  this.id = id;
  this.name = name;
 public String getId() {
  return id;
 public void setId(String id) {
  this.id = id;
 public String getName() {
  return name;
 public void setName(String name) {
  this.name = name;
}
package com.softserve.edu.dao;
import com.softserve.edu.entity.MyEntity;
public interface IEntityDao {
 public void save(MyEntity entity);
}
package com.softserve.edu.dao;
import org.springframework.orm.hibernate3.support.HibernateDaoSupport;
import com.softserve.edu.entity.MyEntity;
public class EntityDao extends HibernateDaoSupport implements IEntityDao {
 @Override
 public void save(MyEntity entity) {
  getHibernateTemplate().save(entity);
}
package com.softserve.edu.services;
import com.softserve.edu.entity.MyEntity;
public interface IMyEntityService {
 public void saveEntity(MyEntity entity);
```

```
package com.softserve.edu.services;
import org.springframework.transaction.annotation.Propagation;
import org.springframework.transaction.annotation.Transactional;
import com.softserve.edu.dao.IEntityDao;
import com.softserve.edu.entity.MyEntity;
 @Transactional(readOnly = true)
 public class MyEntityService implements IMyEntityService {
  private IEntityDao dao;
  public void setDao(IEntityDao dao) {
  this.dao = dao;
 @Override
 @Transactional(readOnly = false, propagation = Propagation.REQUIRED)
 public void saveEntity(MyEntity entity) {
  dao.save(entity);
applicationContext.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
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"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-2.0.xsd
http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx-2.0.xsd">
</beans>
<bean id="propertyConfigurer"
  class="org.springframework.beans.factory.confiq.PropertyPlaceholderConfigurer">
 cproperty name="location" value="jdbc.properties" />
</bean>
<bean id="dataSource" class="org.apache.commons.dbcp.BasicDataSource" destroymethod="</pre>
 close">
 roperty name="driverClassName" value="${jdbc.driverClassName}" />
 roperty name="url" value="${jdbc.url}" />
 roperty name="username" value="${jdbc.username}" />
 </bean>
<ben id="sessionFactory"
  class="org.springframework.orm.hibernate3.LocalSessionFactoryBean">
 roperty name="dataSource" ref="dataSource" />
 roperty name="configLocation" value="classpath:/hibernate.cfg.xml" />
 configurationClass"
  value="org.hibernate.cfg.AnnotationConfiguration" />
 roperty name="hibernateProperties">
   </props>
 </property>
</bean>
<tx:annotation-driven transaction-manager="txManager" />
<br/>bean id="txManager"
  class="org.springframework.orm.hibernate3.HibernateTransactionManager">
```

roperty name="sessionFactory" ref="sessionFactory" />

</bean>

```
<bean id="entityDAO" class="com.softserve.edu.dao.EntityDao">
 roperty name="sessionFactory" ref="sessionFactory" />
</bean>
<bean id="entityService" class="com.softserve.edu.services.MyEntityService">
 roperty name="dao" ref="entityDAO" />
</bean>
package com.softserve.edu;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import com.softserve.edu.entity.MyEntity;
import com.softserve.edu.services.IMyEntityService;
public class Main {
 public static void main(String[] args) {
  ClassPathXmlApplicationContext\ ctx = new
  Class Path Xml Application Context ("application Context.xml");\\
  IMyEntityService service = (IMyEntityService) ctx.getBean("entityService");
  MyEntity entity = new MyEntity();
  entity.setName("Hello");
  service.saveEntity(entity);
```

Spring WEB

```
web.xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"</pre>
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
java.sun.com/xml/ns/javaee/web-app 2 5.xsd"
version="2.5">
<context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>/WEB-INF/dispatcher-servlet.xml</param-value>
</context-param>
< listener-class > org.springframework.web.context.ContextLoaderListener < / listener-
class>
<servlet-name>dispatcher</servlet-name>
<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
<load-on-startup>1</load-on-startup>
<servlet-mapping>
  <servlet-name>dispatcher</servlet-name>
  <url-pattern>*.form</url-pattern>
</servlet-mapping>
<welcome-file-list>
  <welcome-file>/WEB-INF/pages/index.jsp</welcome-file>
</welcome-file-list>
</web-app>
dispatcher-servlet.xml
<?xml version="1.0" encoding="UTF-8"?>
<br/>

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:context="http://www.springframework.org/schema/context"
xmlns:mvc="http://www.springframework.org/schema/tx"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd
http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/springtx-
2.5.xsd">
<context:component-scan base-package="com.softserve.edu"/>
<besi
class="org.springframework.web.servlet.mvc.annotation.DefaultAnnotationHandlerMap
ping"/>
<bean
class="org.springframework.web.servlet.mvc.annotation.AnnotationMethodHandlerAdap
<br/>
<br/>
dean id="viewResolver"
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
   value="org.springframework.web.servlet.view.JstlView"/>
  roperty name="prefix" value="/WEB-INF/pages/"/>
```

roperty name="suffix" value=".jsp"/>

```
</bean>
</beans>
index.jsp
<@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<head><title>Simple jsp page</title></head>
<body>
 <form action="test.form" method="get">
  <input type="text" name="name">
  <input type="submit">
 </form>
</body>
</html>
HelloController.java
package com.softserve.edu;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
@Controller
public class HelloController {
@RequestMapping(value = "/test.form",method = RequestMethod.GET)
public String test(@RequestParam("name") String param, Model model){
model.addAttribute("name",param);
  return "hello";
}
}
model.addAttribute("name",param);
request.setAttribute("name",param);
hello.jsp
<@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<head><title>Simple jsp page</title></head>
<body>
 Hello <%= request.getAttribute("name")%>
</body>
</html>
```