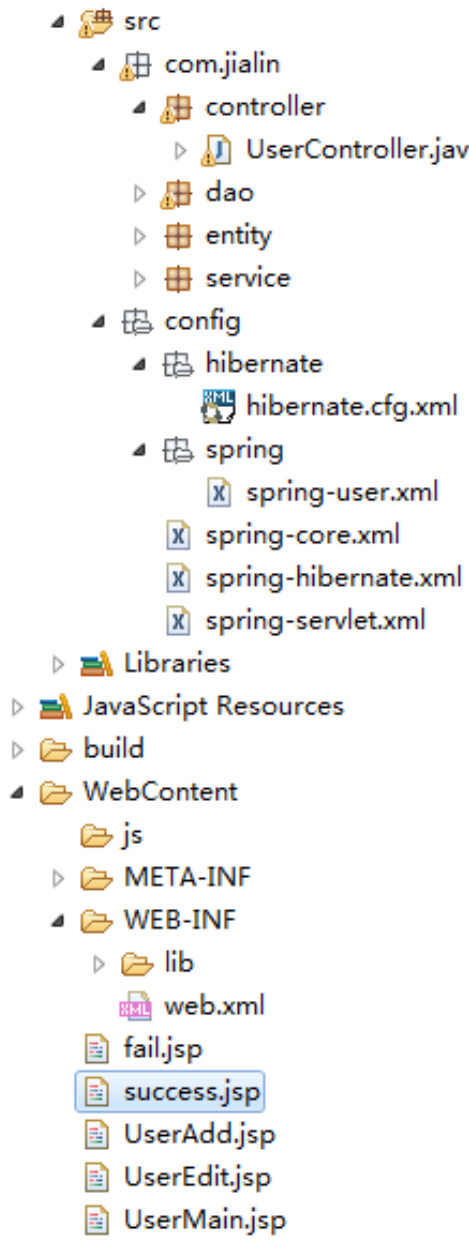
早期的项目比较简单，多是用JSP 、Servlet + JDBC 直接搞定，后来使用Struts1(Struts2)+Spring+Hibernate, 严格按照分层概念驱动项目开发，这次又使用 Spring MVC取代Struts来进行开发。

MVC已经是现代Web开发中的一个很重要的部分，下面介绍一下SpringMVC+Spring3+Hibernate4的开发环境搭建

先大致看一下项目结构：



具体的代码不再演示，主要是走了一个很平常的路线，mvc-servcie-dao-hibernate的结构，源码可以下载，主要看一下配置文件。解释见注释

web.xml

```
[html] view plain  copy  print  ?
01. <?xml version="1.0" encoding="UTF-8"?>
02. <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://java.sun.com/xml/ns/javaee" xmlns:web="http://java.sun.com/xml/ns/
app_2_5.xsd" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/
```

```
app_2_5.xsd" id="WebApp_ID" version="2.5">
  <display-name>SpringMVC</display-name>
  <welcome-file-list>
    <welcome-file>index.jsp</welcome-file>
  </welcome-file-list>

  <!-- 配置Spring -->
  <context-param>
        <param-name>contextConfigLocation</param-name>
        <param-value>classpath*:config/spring-*.xml</param-value>
  </context-param>


  <listener>
     <listener-class>org.springframework.web.context.ContextLoaderListener</listener-
class>
  </listener>

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  <!-- 配置SpringMVC -->
  <servlet>
    <servlet-name>springMVC</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    <init-param>
      <param-name>contextConfigLocation</param-name>
      <param-value>classpath*:config/spring-servlet.xml</param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>springMVC</servlet-name>
    <url-pattern>/</url-pattern>
  </servlet-mapping>

  <!-- 设置字符集 -->
  <filter>
    <filter-name>encodingFilter</filter-name>
    <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
    <init-param>
      <param-name>encoding</param-name>
      <param-value>UTF-8</param-value>
    </init-param>
    <init-param>
      <param-name>forceEncoding</param-name>
      <param-value>true</param-value>
    </init-param>
  </filter>
  <filter-mapping>
    <filter-name>encodingFilter</filter-name>
    <url-pattern>/*</url-pattern>
  </filter-mapping>


```
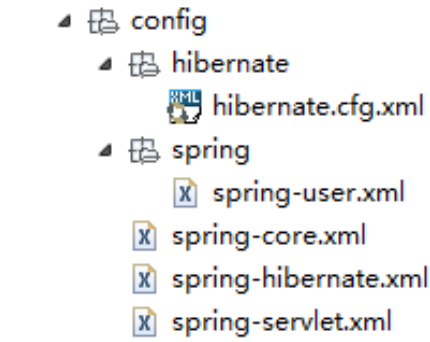

```
  <!-- 控制Session的开关 -->
  <filter>
        <filter-name>openSession</filter-name>
        <filter-
class>org.springframework.orm.hibernate4.support.OpenSessionInViewFilter</filter-class>
  </filter>

  <filter-mapping>
    <filter-name>openSession</filter-name>
    <url-pattern>/*</url-pattern>
  </filter-mapping>

</web-app>
```



spring-servlet.xml

```
[html] view plain  copy  print  ?
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:context="http://www.springframework.org/schema/context" xmlns:p="http://www.spri
    xmlns:mvc="http://www.springframework.org/schema/mvc" xmlns:xsi="http://www.w3.org/200
instance"
    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.xsd
      http://www.springframework.org/schema/mvc
      http://www.springframework.org/schema/mvc/spring-mvc-3.0.xsd">

    <!-- 注解扫描的包 -->
    <context:component-scan base-package="com.jialin" />

    <!-- 开启注解方案1 -->
    <!-- 注解方法处理 -->
    <!-
- <bean class="org.springframework.web.servlet.mvc.annotation.AnnotationMethodHandlerAdapt
        /> -->
    <!-- 注解类映射处理 -->
    <!-
- <bean class="org.springframework.web.servlet.mvc.annotation.DefaultAnnotationHandlerMapp
</bean> -->

    <!-- 开启注解方案2 -->
```

```
    <mvc:annotation-driven />

    <!-- 静态资源访问，方案1 -->
    <mvc:resources location="/img/" mapping="/img/**" />
    <mvc:resources location="/js/" mapping="/js/**" />

    <!-- 静态资源访问，方案2 -->
    <!-- <mvc:default-servlet-handler/> -->

    <!-- 视图解释类 -->
    <bean id="viewResolver"
        class="org.springframework.web.servlet.view.InternalResourceViewResolver">
        <property name="prefix" value="/"></property>
        <!--可为空,方便实现自己的依据扩展名来选择视图解释类的逻辑 -->
        <property name="suffix" value=".jsp"></property>
    </bean>

    <!-- 上传文件bean -->
    <!-
- <bean id="multipartResolver" class="org.springframework.web.multipart.commons.CommonsMul
        <property name="defaultEncoding" value="utf-
8" /> <property name="maxUploadSize"
        value="10485760000" /> <property name="maxInMemorySize" value="40960" />
        </bean> -->

</beans>
```

spring-hibernate.xml

```
[html] view plain  copy  print  ?
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:context="http://www.springframework.org/schema/context" xmlns:p="http://www.spri
    xmlns:mvc="http://www.springframework.org/schema/mvc" xmlns:xsi="http://www.w3.org/200
instance"
    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.xsd
      http://www.springframework.org/schema/mvc
      http://www.springframework.org/schema/mvc/spring-mvc-3.0.xsd">

    <!-- 配置数据源 -->
    <bean id="dataSource"
        class="org.springframework.jdbc.datasource.DriverManagerDataSource">
        <property name="driverClassName" value="com.mysql.jdbc.Driver" />
        <property name="url" value="jdbc:mysql://127.0.0.1/springmvc" />
        <property name="username" value="root" />
        <property name="password" value="123456" />
    </bean>

    <!--  配置hibernate SessionFactory-->
```

```
    <bean id="sessionFactory"
        class="org.springframework.orm.hibernate4.LocalSessionFactoryBean">
        <property name="dataSource" ref="dataSource" />
        <property name="hibernateProperties">
            <props>
                <prop key="hibernate.dialect">org.hibernate.dialect.MySQLDialect</prop>
                <prop key="hibernate.hbm2ddl.auto">update</prop>
                <prop key="hibernate.show_sql">true</prop>
                <prop key="hiberante.format_sql">true</prop>
            </props>
        </property>
        <property name="configLocations">
            <list>
                <value>
                    classpath*:config/hibernate/hibernate.cfg.xml
                </value>
            </list>
        </property>
    </bean>

    <!-- 事务管理器 -->
    <bean id="transactionManager"
        class="org.springframework.orm.hibernate4.HibernateTransactionManager">
        <property name="sessionFactory" ref="sessionFactory"></property>
    </bean>

    <!-- 事务代理类 -->
    <bean id="transactionBese"
        class="org.springframework.transaction.interceptor.TransactionProxyFactoryBean"
        lazy-init="true" abstract="true">
        <property name="transactionManager" ref="transactionManager"></property>
        <property name="transactionAttributes">
            <props>
                <prop key="add*">PROPAGATION_REQUIRED,-Exception</prop>
                <prop key="update*">PROPAGATION_REQUIRED,-Exception</prop>
                <prop key="insert*">PROPAGATION_REQUIRED,-Exception</prop>
                <prop key="modify*">PROPAGATION_REQUIRED,-Exception</prop>
                <prop key="delete*">PROPAGATION_REQUIRED,-Exception</prop>
                <prop key="del*">PROPAGATION_REQUIRED,-Exception</prop>
                <prop key="get*">PROPAGATION_NEVER</prop>
            </props>
        </property>
    </bean>

</beans>
```

spring-core.xml

```
[html] view plain  copy  print  ?
<?xml version="1.0" encoding="UTF-8"?>
```

```
<beans xmlns="http://www.springframework.org/schema/beans"
 xmlns:context="http://www.springframework.org/schema/context"
 xmlns:p="http://www.springframework.org/schema/p"
 xmlns:mvc="http://www.springframework.org/schema/mvc"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 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.xsd
      http://www.springframework.org/schema/mvc
      http://www.springframework.org/schema/mvc/spring-mvc-3.0.xsd">

    <!-- 引入其他配置文件，可以为多个 -->
    <import resource="classpath*:config/spring/spring-user.xml"/>

 </beans>
```

spring-user.xml

[html] view plain copy print ?

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-
//SPRING//DTD BEAN 2.0//EN" "http://www.springframework.org/dtd/spring-beans-2.0.dtd" [
<!ENTITY contextInclude SYSTEM "org/springframework/web/context/WEB-
INF/contextInclude.xml">
]>

<beans>
    <!-- Spring Bean -->
    <bean id="userDao" class="com.jialin.dao.UserDao">
        <property name="sessionFactory" ref="sessionFactory"></property>
    </bean>

    <bean id="userManagerBase" class="com.jialin.service.UserManager">
        <property name="userDao" ref="userDao"></property>
    </bean>

    <!-- parent为transactionBese，表示支持事务 -->
    <bean id="userManager" parent="transactionBese">
        <property name="target" ref="userManagerBase"></property>
    </bean>

</beans>
```

hibernate.cfg.xml

[html] view plain copy print ?

```
<!DOCTYPE hibernate-configuration PUBLIC
        "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
```

```
        "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>
    <session-factory>
        <!-- 引入需要映射的类 -->
        <mapping class="com.jialin.entity.User"/>
    </session-factory>
</hibernate-configuration>
```

下面再来看看Controller

[java] view plain copy print ?

```
package com.jialin.controller;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;

import javax.annotation.Resource;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;

import com.jialin.entity.User;
import com.jialin.service.IUserManager;

@Controller   //类似Struts的Action
@RequestMapping("/user")
public class UserController {

    @Resource(name="userManager")  // 获取spring配置文件中bean的id为userManager的，并注入
    private IUserManager userManager;

    @RequestMapping("/addUser")   // 请求url地址映射，类似Struts的action-mapping
    public String addUser(User user){
        if(userManager.addUser(user))
        {
            // 重定向
            return "redirect:/user/getAllUser";
        }else
        {
            return "/fail";
        }

    }

    @RequestMapping("/updateUser")
    public String updateUser(User user,HttpServletRequest request){
        if (userManager.updateUser(user))
```

```
        {
            user = userManager.getOneUser(user);
            request.setAttribute("user", user);
            return "/UserEdit";
        }else
        {
            return "/fail";
        }

    }

    @RequestMapping("/delUser")
    public void delUser(User user,HttpServletResponse response){
        String result = "{\"result\":\"error\"}";

        if(userManager.delUser(user)){
            result = "{\"result\":\"success\"}";
        }
        PrintWriter out = null;
        response.setContentType("application/json");

        try {
            out = response.getWriter();
            out.write(result);
        } catch (IOException e) {
            e.printStackTrace();
        }

    }
    @RequestMapping("/toAddUser")
    public String toAddUser(){
        return "/UserAdd";
    }

    @RequestMapping("/toUpdateUser")
    public String toUpdateUser(User user,HttpServletRequest request){
        User user1=userManager.getOneUser(user);

        request.setAttribute("user1", user1);

        return "/UserEdit";
    }

    @RequestMapping("/getAllUser")
    public String getAllUser(HttpServletRequest request){

        List userList=userManager.getAllUser();

        request.setAttribute("userlist", userList);

        return "/UserMain";
    }

}
```