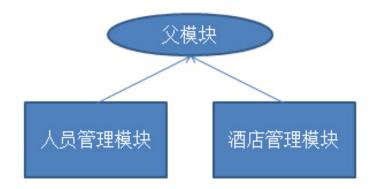
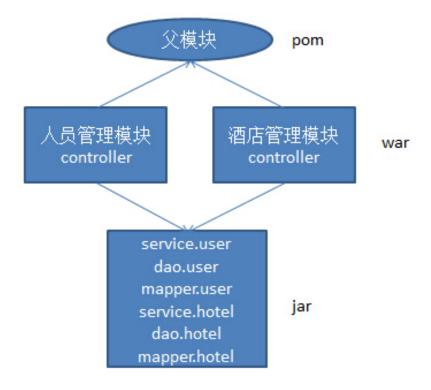
第三章 企业项目开发--企业中的项目架构以及多环境分配

1、业务模块与数据模块分离

在实际开发中,我们项目的架构业务模块和数据模块是分离的,举个例子,假设我们的项目有"人员管理模块"和"酒店管理模块"两个模块,按照上一章的介绍,我们会建立下图所示的项目结构:



其中,人员管理模块的controller、service、dao、mapper都在一个项目中,而在实际使用中,我们会将数据模块分离出来,即将以上两个子模块的service、dao、mapper拿出来,放在一个子项目中,形成如下的项目结构:



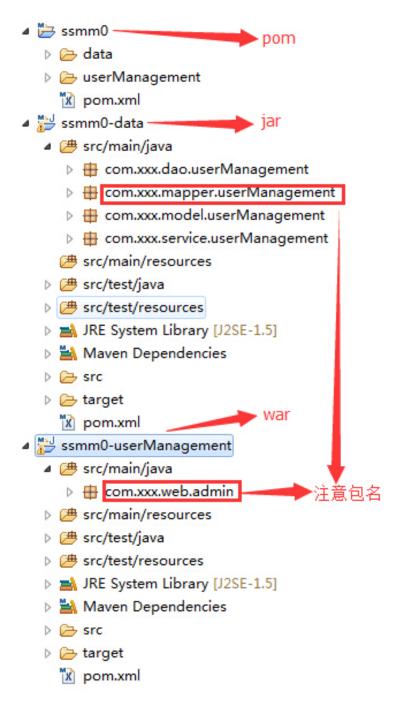
注意以下几点:

- 包的命名最好是com.xxx.mapper.user和不是com.xxx.user.mapper,前者在spring.xml中配置mybatis时更方便,具体见spring.xml的中的注释
- 在controller那一层的项目是需要部署的,即是war,而下边的数据模块是作为war的一个jar,所以在war层的pom.xml需要将下边的数据模块作为一个jar来引入到项目中
- **service层**到底是放在业务模块处还是放在数据模块处,这个根据需求而定,**一般而言,都放在数据模块处**,方便彼此service的调用,如 userService调用hotelService,如果这个时候把两个service分别放在各自的业务模块层中,相互的调用就要通过RPC了,当然,有的时候可能有些 与其他模块都不调用的service放在war层可能会好一些。
- 将来编写的缓存模块类、通用模块类、RPC工具类等都会作为jar被war层调用。

2、实现

我将上一章的项目做了修改,将ssmm项目改成了userManagement项目,并将userManagement项目实现了业务模块和数据模块的分离,具体的操作参照第一章和第二章的相关内容,这里直接给出项目结构和各个文件。

2.1、项目结构



2.2、代码实现

2.2.1、ssmm0

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
cproject 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/maven-v4_0_0.xsd">
   <modelVersion>4.0.0</modelVersion>
   <groupId>com.xxx
   <artifactId>ssmm0</artifactId>
   <version>1.0-SNAPSHOT</version>
   <name>ssmm0</name>
   <packaging>pom</packaging><!-- 父模块 -->
   <!-- 管理子模块 -->
   <modules>
       <module>userManagement</module><!-- 具体业务1-人员管理系统 -->
       <module>data</module><!-- 封装数据操作 -->
   </modules>
   properties>
       project.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
       ct.reporting.outputEncoding>UTF-8ject.reporting.outputEncoding>
   </properties>
   <!-- dependencyManagement不会引入实际的依赖,只是作为一个依赖池,供其和其子类使用 -->
```

```
<dependencyManagement>
   <dependencies>
       <!-- json -->
       <dependency>
          <groupId>com.alibaba
          <artifactId>fastjson</artifactId>
          <version>1.1.39
       </dependency>
       <!-- servlet -->
       <dependency>
          <groupId>javax.servlet
          <artifactId>javax.servlet-api</artifactId>
          <version>3.0.1
          <scope>provided</scope>
       </dependency>
       <!-- spring -->
       <dependency>
          <groupId>org.springframework
          <artifactId>spring-core</artifactId>
          <version>3.2.6.RELEASE
       </dependency>
       <dependency>
          <groupId>org.springframework
          <artifactId>spring-beans</artifactId>
          <version>3.2.6.RELEASE
       </dependency>
       <dependency>
          <groupId>org.springframework
          <artifactId>spring-context</artifactId>
          <version>3.2.6.RELEASE
       </dependency>
       <dependency>
          <groupId>org.springframework
          <artifactId>spring-web</artifactId>
          <version>3.2.6.RELEASE
       </dependency>
       <dependency>
          <groupId>org.springframework
          <artifactId>spring-webmvc</artifactId>
          <version>3.2.6.RELEASE
       </dependency>
       <!-- 这个是使用velocity的必备包 -->
       <dependency>
          <groupId>org.springframework
          <artifactId>spring-context-support</artifactId>
          <version>3.2.6.RELEASE
       </dependency>
       <!-- mysql -->
       <dependency>
          <groupId>mysql</groupId>
          <artifactId>mysql-connector-java</artifactId>
          <version>5.1.27
          <scope>runtime</scope>
       </dependency>
       <!-- 数据源 -->
       <dependency>
          <groupId>org.apache.tomcat
          <artifactId>tomcat-jdbc</artifactId>
          <version>7.0.47
       </dependency>
       <!-- mybatis -->
       <dependency>
          <groupId>org.mybatis
          <artifactId>mybatis</artifactId>
          <version>3.1.1
```

```
</dependency>
       <dependency>
           <groupId>org.mybatis
           <artifactId>mybatis-spring</artifactId>
           <version>1.1.1
       </dependency>
       <!-- velocity -->
       <dependency>
           <groupId>org.apache.velocity</groupId>
           <artifactId>velocity</artifactId>
           <version>1.5</version>
       </dependency>
       <dependency>
           <groupId>velocity-tools
           <artifactId>velocity-tools-generic</artifactId>
           <version>1.2</version>
       </dependency>
       <!-- 用于加解密 -->
       <dependency>
           <groupId>commons-codec
           <artifactId>commons-codec</artifactId>
           <version>1.7</version>
       </dependency>
       <dependency>
           <groupId>org.bouncycastle
           <artifactId>bcprov-jdk15on</artifactId>
           <version>1.47</version>
       </dependency>
       <!-- 集合工具类 -->
       <dependency>
           <groupId>org.apache.commons
           <artifactId>commons-collections4</artifactId>
           <version>4.0</version>
       </dependency>
       <!-- http -->
       <dependency>
           <groupId>org.apache.httpcomponents
           <artifactId>httpclient</artifactId>
           <version>4.2.6
       </dependency>
   </dependencies>
</dependencyManagement>
<!-- 引入实际依赖 -->
<dependencies>
   <!-- json -->
   <dependency>
       <groupId>com.alibaba
       <artifactId>fastjson</artifactId>
   </dependency>
   <!-- spring -->
   <dependency>
       <groupId>org.springframework</groupId>
       <artifactId>spring-core</artifactId>
   </dependency>
   <dependency>
       <groupId>org.springframework
       <artifactId>spring-beans</artifactId>
   </dependency>
   <dependency>
       <groupId>org.springframework
       <artifactId>spring-context</artifactId>
   </dependency>
   <!-- 集合工具类 -->
   <dependency>
```

```
<groupId>org.apache.commons
          <artifactId>commons-collections4</artifactId>
      </dependency>
   </dependencies>
   <build>
      <resources>
          <!--
             这里配置了这一块儿true,才可以让指定文件(这里是src/main/resources/*.xml)读到pom.xml中的配置信息,
             值得注意的是,如果src/main/resources下还有其他文件,而你不想让其读pom.xml,
             你还必须得把src/main/resources下的其余文件再配置一遍,配置为false(不可读pom.xml),
             如下边的注释那样,否则,会报这些文件(在这里,就是*.properties)找不到的错误
          -->
          <re>ource>
             <directory>src/main/resources</directory>
             <filtering>true</filtering>
             <includes>
                <include>*.xml</include>
             </includes>
          </resource>
          <!-- <resource>
             <directory>src/main/resources</directory>
             <filtering>false</filtering>可以读,若改为false就是不可读
             <includes>
                <include>*.properties</include>
             </includes>
          </resource> -->
      </resources>
   </build>
   <!--
      profiles可以定义多个profile,然后每个profile对应不同的激活条件和配置信息,从而达到不同环境使用不同配置信息的效
果
      注意两点:
      1) <activeByDefault>true</activeByDefault>这种情况表示服务器启动的时候就采用这一套env(在这里,就是prod)
      2) 当我们启动服务器后,想采用开发模式,需切换maven的env为dev,如果env的配置本身就是dev,需要将env换成rc或prod,
点击apply, 然后再将env切换成dev, 点击apply才行
   -->
   profiles>
      <!-- 开发env -->
      ofile>
          <id>dev</id>
          <activation>
             <activeByDefault>false</activeByDefault>
             property>
                <name>env</name>
                <value>dev</value>
             </property>
          </activation>
          properties>
             <env>dev</env>
             <jdbc.driverClassName>com.mysql.jdbc.Driver</jdbc.driverClassName>
             <!--
                对于jdbc.url中内容的配置,如果需要配置 @amp;时,有两种方法:
                1) 如下边这样,使用<![CDATA[XXX]]>包起来
                2)使用jdbc.properties文件来读取此pom.xml,然后spring.xml再读取jdbc.properties文件
                显然,前者更方便,而且还省了一个jdbc.properties的文件,但是,有的时候,还是会用后者的;
                在使用后者的时候,注意三点:
                1)需要修改上边的build中的内容
                2)需要在spring.xml中配置<context:property-placeholder
location="classpath:jdbc.properties"/>
                3)将jdbc.properties放在ssmm0-data项目中,之后需要将ssmm0-data项目的env配置为dev
```

```
<jdbc.url><![CDATA[jdbc:mysql://127.0.0.1:3306/blog?zeroDateTimeBehavior=convertToNull&</pre>
amp;useUnicode=true&characterEncoding=utf-8]]></jdbc.url>
                <jdbc.username>root</jdbc.username>
                <jdbc.password>123456</jdbc.password>
            </properties>
       </profile>
       <!-- 预上线env -->
       file>
            <id>rc</id>
            <activation>
                <activeByDefault>false</activeByDefault>
                property>
                    <name>env</name>
                   <value>rc</value>
                </property>
            </activation>
            properties>
                <env>rc</env>
                <jdbc.driverClassName>com.mysql.jdbc.Driver</jdbc.driverClassName>
                <!-- 假设的一个地址 -->
                <jdbc.url><![CDATA[jdbc:mysql://10.10.10.100:3306/blog?zeroDateTimeBehavior=convertToNull&</pre>
amp;useUnicode=true&characterEncoding=utf-8]]></jdbc.url>
               <jdbc.username>root2</jdbc.username>
                <jdbc.password>1234562</jdbc.password>
            </properties>
       </profile>
        <!-- 线上env -->
       file>
           <id>prod</id>
            <activation>
                <activeByDefault>true</activeByDefault>
                property>
                   <name>env</name>
                    <value>prod</value>
                </property>
            </activation>
            properties>
                <env>prod</env>
                <jdbc.driverClassName>com.mysql.jdbc.Driver</jdbc.driverClassName>
                <!-- 假设的一个地址 -->
               <jdbc.url><![CDATA[jdbc:mysql://99.99.99.999:3307/blog?zeroDateTimeBehavior=convertToNull&</pre>
amp;useUnicode=true&characterEncoding=utf-8]]></jdbc.url>
                <jdbc.username>sadhijhqwui</jdbc.username>
                <jdbc.password>zxczkchwihcznk=</jdbc.password>
            </properties>
       </profile>
    </profiles>
</project>
```

注意:

- 所有的注意点:都在注释中
- 上述<build>中的resource的配置是为了是spring.xml可以读取pom.xml文件的内容,具体的注意点,查看注释
- profiles的配置是为了配置多套环境(在这里配置了三套env,开发,预上线和线上环境),具体的注意点,查看注释

2.2.2, ssmm0-data

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
   <modelVersion>4.0.0/modelVersion>
   <!-- 指定父模块 -->
   <parent>
      <groupId>com.xxx
      <artifactId>ssmm0</artifactId>
      <version>1.0-SNAPSHOT
   </parent>
   <groupId>com.xxx.ssmm0</groupId>
   <artifactId>ssmm0-data</artifactId>
   <name>ssmm0-data</name>
   <packaging>jar</packaging><!-- 只是作为其他模块使用的工具 -->
   <!-- 引入实际依赖 -->
   <dependencies>
      <!-- mysql -->
      <dependency>
          <groupId>mysql</groupId>
          <artifactId>mysql-connector-java</artifactId>
      </dependency>
      <!-- 数据源 -->
      <dependency>
          <groupId>org.apache.tomcat</groupId>
          <artifactId>tomcat-jdbc</artifactId>
      </dependency>
      <!-- mybatis -->
      <dependency>
          <groupId>org.mybatis
          <artifactId>mybatis</artifactId>
      </dependency>
      <dependency>
          <groupId>org.mybatis
          <artifactId>mybatis-spring</artifactId>
      </dependency>
   </dependencies>
</project>
```

注意:<package>为jar

com.xxx.model.userManagement.Admin

```
package com.xxx.model.userManagement;

/**
 * 管理员
 */
public class Admin {
  private int id;
  private String username;
  private String password;

public int getId() {
    return id;
  }
```

```
public void setId(int id) {
    this.id = id;
}

public String getUsername() {
    return username;
}

public void setUsername(String username) {
    this.username = username;
}

public String getPassword() {
    return password;
}

public void setPassword(String password) {
    this.password = password;
}
}
```

com.xxx.mapper.userManagement.AdminMapper

```
package com.xxx.mapper.userManagement;
import org.apache.ibatis.annotations.Insert;
import org.apache.ibatis.annotations.Param;
import org.apache.ibatis.annotations.Result;
import org.apache.ibatis.annotations.Results;
import org.apache.ibatis.annotations.Select;
import com.xxx.model.userManagement.Admin;
 * 管理员Mapper
*/
public interface AdminMapper {
    @Insert("INSERT INTO userinfo(username, password) VALUES(#{username}, #{password})")
    public int insertAdmin(Admin admin);
    @Select("SELECT * FROM userinfo WHERE username = #{username} AND password = #{password}")
    @Results(value = {
            @Result(id = true, column = "id", property = "id"),
            @Result(column = "username", property = "username"),
            @Result(column = "password", property = "password") })
    public Admin selectAdmin(@Param("username") String username,
                             @Param("password") String password);
```

com.xxx.dao.user Management. Admin Dao

```
package com.xxx.dao.userManagement;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;
```

com.xxx.service.userManagement.AdminService

```
package com.xxx.service.userManagement;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.xxx.dao.userManagement.AdminDao;
import com.xxx.model.userManagement.Admin;
/**
 * 管理员service
@Service
public class AdminService {
    @Autowired
   private AdminDao adminDao;
   public boolean register(Admin admin) {
       return adminDao.register(admin);
   public Admin login(String username, String password) {
        return adminDao.login(username, password);
```

代码很简单,与之前的基本一样,只是名字换了而已。

值得注意的是包名:com.xxx.mapper.userManagement而非com.xxx.userManagement.mapper。

2.2.3、ssmm0-userManagement

pom.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <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/maven-v4_0_0.xsd">
```

```
4
 5
      <modelVersion>4.0.0</modelVersion>
 6
      <!-- 指定父模块 -->
 7
      <parent>
 8
          <groupId>com.xxx
 9
          <artifactId>ssmm0</artifactId>
10
          <version>1.0-SNAPSHOT</version>
11
12
      </parent>
13
14
      <groupId>com.xxx.ssmm0</groupId>
      <artifactId>ssmm0-userManagement</artifactId>
15
      <!--<version>1.0-SNAPSHOT</version>--><!-- 父模块已经指定了版本号,这里就不用了-->
16
17
18
      <name>ssmm0-userManagement
19
      <packaging>war</packaging><!-- 需要部署的模块 -->
20
      <!-- 引入实际依赖 -->
21
22
      <dependencies>
          <!-- 将ssmm0-data项目作为一个jar引入项目中 -->
23
          <dependency>
24
              <groupId>com.xxx.ssmm0</groupId>
25
26
              <artifactId>ssmm0-data</artifactId>
              <version>1.0-SNAPSHOT</version>
27
          </dependency>
28
          <!-- servlet -->
29
          <dependency>
30
31
              <groupId>javax.servlet
              <artifactId>javax.servlet-api</artifactId>
32
33
          </dependency>
          <!-- spring mvc -->
34
          <dependency>
35
              <groupId>org.springframework
36
              <artifactId>spring-web</artifactId>
37
38
          </dependency>
39
          <dependency>
40
              <groupId>org.springframework
              <artifactId>spring-webmvc</artifactId>
41
          </dependency>
42
          <!-- 这个是使用velocity的必备包 -->
43
          <dependency>
44
45
              <groupId>org.springframework
              <artifactId>spring-context-support</artifactId>
46
          </dependency>
47
          <!-- velocity -->
48
          <dependency>
49
50
              <groupId>org.apache.velocity</groupId>
              <artifactId>velocity</artifactId>
51
52
          </dependency>
53
          <dependency>
54
              <groupId>velocity-tools
55
              <artifactId>velocity-tools-generic</artifactId>
56
          </dependency>
57
      </dependencies>
58 </project>
```

注意:将ssmm0-data作为普通的jar引入即可。

spring.xml

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

```
2 <beans xmlns="http://www.springframework.org/schema/beans"
 3
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:context="http://www.springframework.org
/schema/context"
 4
       xmlns:mvc="http://www.springframework.org/schema/mvc"
       xsi:schemaLocation="http://www.springframework.org/schema/beans"
 5
                             http://www.springframework.org/schema/beans/spring-beans-3.2.xsd
 6
                             http://www.springframework.org/schema/context
 7
 8
                             http://www.springframework.org/schema/context/spring-context-3.2.xsd
                             http://www.springframework.org/schema/mvc http://www.springframework.org/schema
 9
/mvc/spring-mvc-3.2.xsd">
10
       <!-- 注解扫描 -->
11
12
       <context:component-scan base-package="com.xxx" />
13
       <!-- 配置fastjson转换器 -->
14
15
       <mvc:annotation-driven>
           <mvc:message-converters register-defaults="true">
16
17
              <bean class="com.alibaba.fastjson.support.spring.FastJsonHttpMessageConverter"></bean>
18
           </mvc:message-converters>
       </mvc:annotation-driven>
19
20
       <!-- 引入数据源,这里变量的读取都是从ssmm0的pom.xml中读取的 -->
21
22
       <bean id="xxxDataSource" class="org.apache.tomcat.jdbc.pool.DataSource" destroy-method="close">
           cyproperty name="driverClassName" value="${jdbc.driverClassName}" />
23
           cproperty name="url" value="${jdbc.url}" />
24
           cproperty name="username" value="${jdbc.username}" />
25
           cproperty name="password" value="${jdbc.password}" />
26
27
       </bean>
28
       <!-- \exists | \lambda mybatis -->
29
       <bean id="xxxSqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
30
           cproperty name="dataSource" ref="xxxDataSource" />
31
32
       </bean>
       <bean id="xxxMapperScannerConfigurer" class="org.mybatis.spring.mapper.MapperScannerConfigurer">
33
          <!--
34
              这里就是包名为什么就做com.xxx.mapper.user而非com.xxx.user.mapper,
35
              这样的话,比如说有两个项目com.xxx.mapper.user和com.xxx.mapper.hotel,value只需写作com.xxx.mapper即
36
可
              否则, value就要写作com.xxx.user.mapper,com.xxx.hotel.mapper
37
38
39
           cproperty name="basePackage" value="com.xxx.mapper" />
40
           roperty name="sqlSessionFactoryBeanName" value="xxxSqlSessionFactory" />
       </bean>
41
42
       <!-- 配置velocity -->
43
      <bean id="velocityConfigurer" class="org.springframework.web.servlet.view.velocity.VelocityConfigurer">
44
           cproperty name="resourceLoaderPath">
45
              <value>WEB-INF/templates/</value>
46
47
           </property>
48
           cproperty name="velocityProperties">
49
50
                   prop key="input.encoding">UTF-8
51
                   </props>
52
53
          </property>
54
      </bean>
       <bean id="viewResolver" class="org.springframework.web.servlet.view.velocity.VelocityViewResolver">
55
           cproperty name="suffix" value=".vm" />
56
57
          cproperty name="contentType" value="text/html;charset=utf-8" />
          cproperty name="dateToolAttribute" value="date"/>
58
59
           cproperty name="numberToolAttribute" value="number"/>
60
       </bean>
61 </beans>
```

注意:这里对包名的体现,由于直接使用spring.xml去读ssmm0的 pom.xml了,所以jdbc.properties文件就不要了,在spring.xml中,指定文件位置的<context:property-placeholder>标签就删掉了

web.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <web-app version="2.5" xmlns="http://java.sun.com/xml/ns/javaee"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 3
 4
       xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee
/web-app 2 5.xsd">
 5
 6
       <servlet>
           <servlet-name>dispatcherServlet</servlet-name>
 8
           <servlet-class>org.springframework.web.servlet.DispatcherServlet/servlet-class>
 9
           <init-param>
10
               <param-name>contextConfigLocation</param-name>
11
               <param-value>classpath:spring.xml</param-value>
12
           </init-param>
           <load-on-startup>1</load-on-startup>
13
       </servlet>
14
15
       <servlet-mapping>
           <servlet-name>dispatcherServlet</servlet-name>
16
17
           <url-pattern>/</url-pattern>
       </servlet-mapping>
18
19
       <filter>
20
21
           <filter-name>encodingFilter</filter-name>
           <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
22
           <init-param>
23
24
               <param-name>encoding</param-name>
               <param-value>UTF-8</param-value>
25
26
           </init-param>
           <init-param>
27
28
               <param-name>forceEncoding</param-name>
29
               <param-value>true</param-value>
30
           </init-param>
       </filter>
31
32
       <filter-mapping>
33
           <filter-name>encodingFilter</filter-name>
34
           <url-pattern>/*</url-pattern>
       </filter-mapping>
35
36
37
       <welcome-file-list>
           <welcome-file>/index.jsp</welcome-file>
38
       </welcome-file-list>
39
40 </web-app>
```

com.xxx.web.admin.AdminController

```
1 package com.xxx.web.admin;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.stereotype.Controller;
5 import org.springframework.web.bind.annotation.RequestMapping;
6 import org.springframework.web.bind.annotation.RequestParam;
7 import org.springframework.web.bind.annotation.ResponseBody;
8 import org.springframework.web.servlet.ModelAndView;
9
10 import com.xxx.model.userManagement.Admin;
```

```
11 import com.xxx.service.userManagement.AdminService;
12
13 /**
14 * adminController
15 */
16 @Controller
17 @RequestMapping("/admin")
18 public class AdminController {
19
20
       @Autowired
21
       private AdminService adminService;
22
       /**
23
       * 管理员注册
24
       */
25
26
       @ResponseBody
27
       @RequestMapping("/register")
       public boolean register(@RequestParam("username") String username,
28
29
                               @RequestParam("password") String password){
30
           Admin admin = new Admin();
31
           admin.setUsername(username);
           admin.setPassword(password);
32
33
34
           boolean isRegisterSuccess = adminService.register(admin);
35
           return isRegisterSuccess;
36
37
38
       /**
39
       * 管理员登录
40
41
       @RequestMapping("/login")
42
       public ModelAndView login(@RequestParam("username") String username,
43
44
                                 @RequestParam("password") String password) {
45
           Admin admin = adminService.login(username, password);
46
47
           ModelAndView modelAndView = new ModelAndView();
48
           if (admin == null) {
               modelAndView.addObject("message", "用户不存在或者密码错误!请重新输入");
49
50
               modelAndView.setViewName("error");
51
           }else{
52
               modelAndView.addObject("admin", admin);
               modelAndView.setViewName("userinfo");
53
54
           }
55
           return modelAndView;
56
57
58 }
```

error.vm

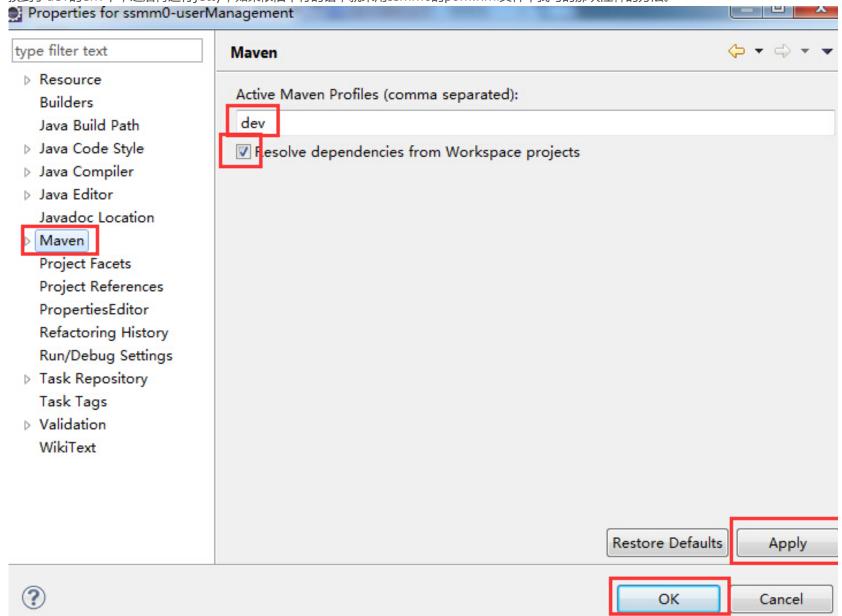
```
11 </body>
12 </html>
```

userinfo.vm

```
1 <!DOCTYPE html>
2 <html lang="zh-cn">
 3 <head>
       <meta charset="UTF-8">
 4
 5
       <title>登录成功</title>
 6 </head>
 7 <body>
 8
       <div>
 9
          id:$admin.id
           username: $admin.username
10
          password: $admin.password
11
12
       </div>
13 </body>
14 </html>
```

具体测试过程:

- 直接运行jetty的话,会发现连不上数据库服务器99.99.99.999,这是因为默认启动服务器之后,我们使用的是prod的一套env,这套env中的数据库服务器是我自己乱写的:99.99.99.999
- 这时候,在ssmm0-userManagement项目上右击-->"Build Path"-->"Configure Build Path"-->"Maven"-->修改env,如下图所示,这样就切换到了dev的env下,之后再运行jetty,如果依旧不行的话,就采用ssmm0的pom.xml文件中我写的那块注释的方法。



这样,一个基本上就是**企业中开发常用的结构**的项目就完成了,**这个项目非常重要,一定自己试着去写一个,一定要仔细看其中的每一条注** 释。