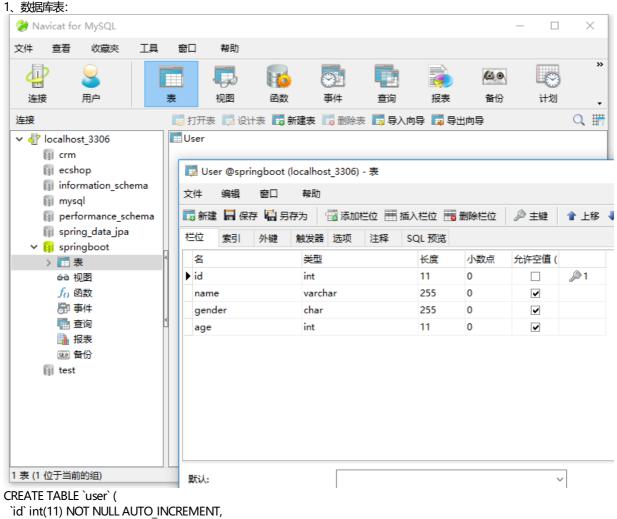
5、SpringBoot持久层整合

SpringBoot 整合 Mybatis, 使用 Thymeleaf 页面

项目搭建:



'name' varchar(255) DEFAULT NULL,

'gender' char(255) DEFAULT NULL,

'age' int(11) DEFAULT NULL,

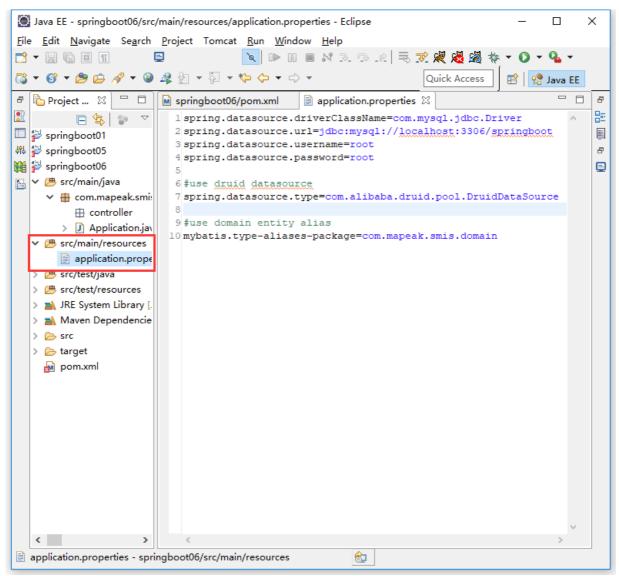
PRIMARY KEY ('id')

-) ENGINE=InnoDB AUTO INCREMENT=7 DEFAULT CHARSET=utf8;
- 2、创建 maven 项目,导入 maven 坐标:

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"> <modelVersion>4.0.0</modelVersion>

```
<!-- 该项目继承自父项目,父工程坐标 -->
<parent>
  <groupId>org.springframework.boot</groupId>
  <artifactld>spring-boot-starter-parent</artifactld>
  <version>2.1.1.RELEASE</version>
</parent>
<groupId>com.mapeak</groupId>
<artifactId>springboot01</artifactId>
<version>0.0.1-SNAPSHOT</version>
<!-- 修改任何的属性都是使用 properties -->
cproperties>
  <!-- 修改 JDK 版本号 -->
  <java.version>1.8</java.version>
</properties>
```

```
<dependencies>
    <!-- SpringBoot web 启动器 -->
    <!-- web 坐标里包含 SpringMVC,Filter,Listener 等 -->
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <!-- Thymeleaf -->
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-thymeleaf</artifactId>
    </dependency>
    <!-- mysql 相关的坐标 -->
    <!-- mysql -->
    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
      <!-- 注意添加版本号 -->
      <version>5.1.42</version>
    </dependency>
    <!-- druid 连接池 -->
    <dependency>
      <groupId>com.alibaba</groupId>
      <artifactld>druid</artifactld>
      <version>1.0.9</version>
    </dependency>
    <!-- SpringBoot 的 mybatis 启动器 -->
    <dependency>
      <groupId>org.mybatis.spring.boot</groupId>
      <artifactId>mybatis-spring-boot-starter</artifactId>
      <version>1.1.1</version>
    </dependency>
  </dependencies>
</project>
3、application.properties 配置:
```



4, domain:

```
🎒 Java EE - springboot06/src/main/java/com/mapeak/smis/domain/User.java - Eclipse
                                                                                           \times
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
🖽 🛮 😭 Java EE
                                                                 Quick Access
                                                                                      - - -
🗗 🎦 Project Explorer 🛭 🗀 🖟 User.java 🖾
                                                                                            먎
                            1 package com.mapeak.smis.domain;
                                                                                        A 📙
springboot01
                                                                                            3 import java.io.Serializable;
👭 👺 springboot05
                                                                                            8
🙀 📂 springboot06
                                                                                            ▣
                           5 public class User implements Serializable {
🔁 🗸 🥦 src/main/java
                              7
    ∨ Æ com.mapeak.smis
                                    private Long id;
                             8
                                    private String name;

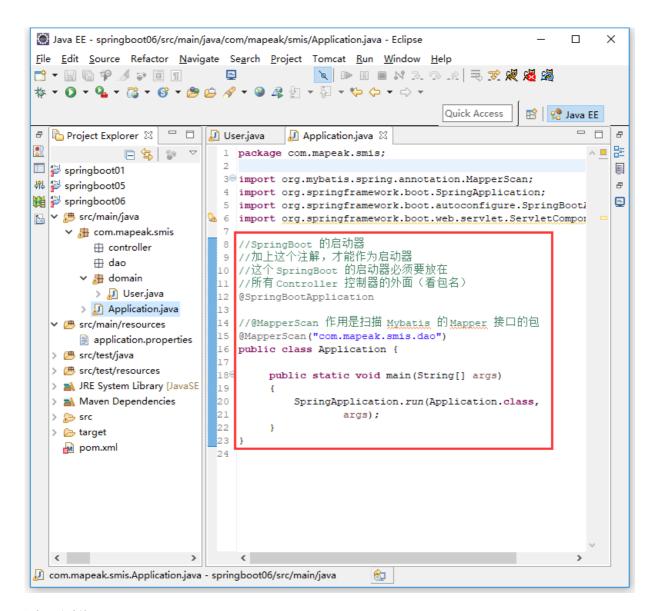
⊕ controller

                             9
                                    private String gender;

→ A domain

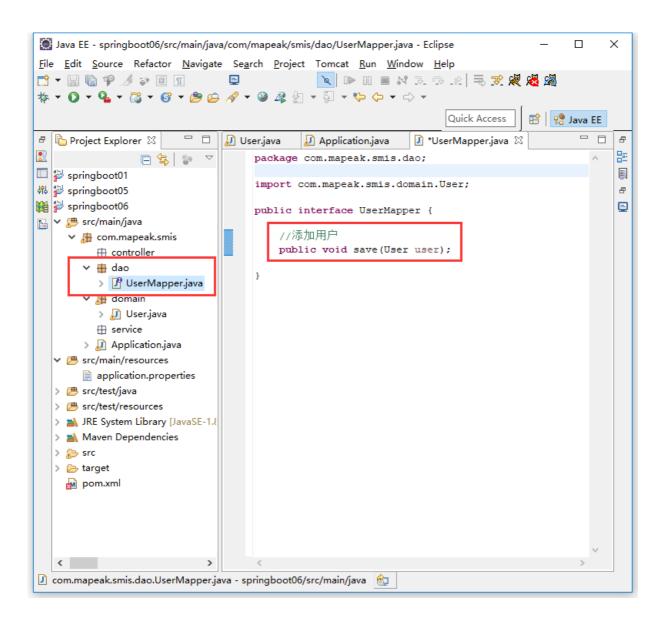
                            10
                                    private Integer age;
         > 🕡 User.java
       > J Application.java
                            120
                                    public Long getId() {
  1.3
                                        return id:
       application.properties
                            15⊖
                                    public void setId(Long id) {
  > 乃 src/test/java
                             16
                                        this.id = id;
   > 🕮 src/test/resources
                            17
   > M JRE System Library [JavaSE
                             18⊖
                                    public String getName() {
  > Maven Dependencies
                            19
                                        return name;
   > 🐎 src
                             20
                            219
                                    public void setName(String name) {
  > 🗁 target
                             22
                                       this.name = name;
    pom.xml
                            23
                             24⊖
                                    public String getGender() {
                            25
                                       return gender;
                            26
                            27⊖
                                    public void setGender(String gender) {
                            28
                                        this.gender = gender;
                            29
                             30⊖
                                    public Integer getAge() {
                            31
                                       return age;
🔑 com.mapeak.smis.domain.User.java - springboot06/src/main/java
                                                      87
```

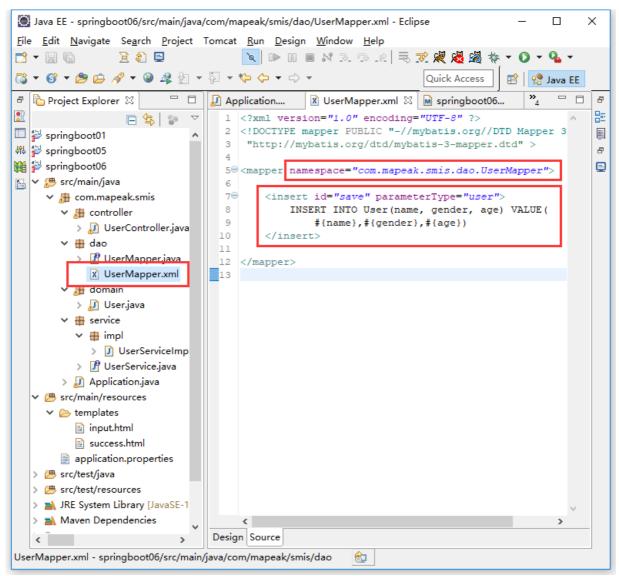
5、启动类:



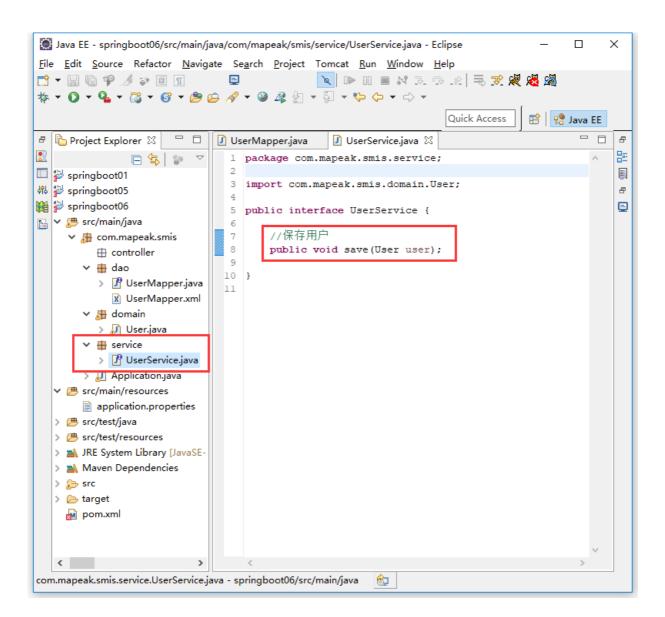
添加用户功能:

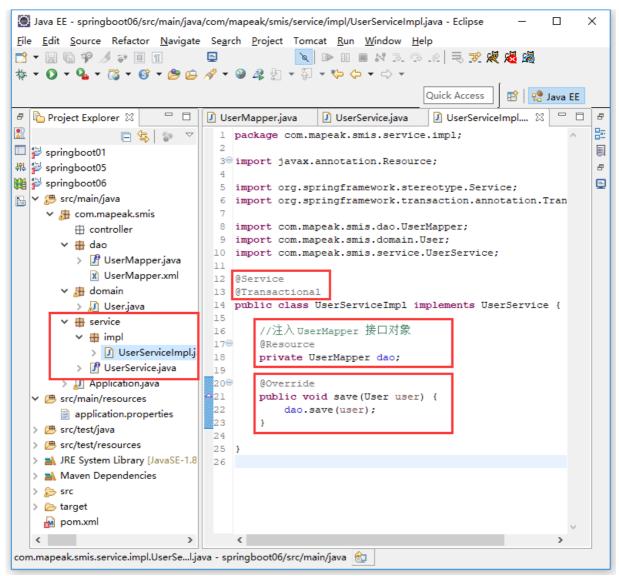
1、dao:



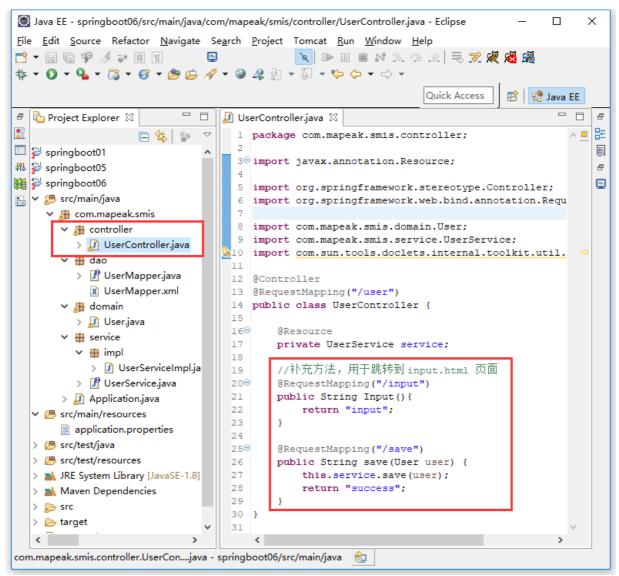


2, service:

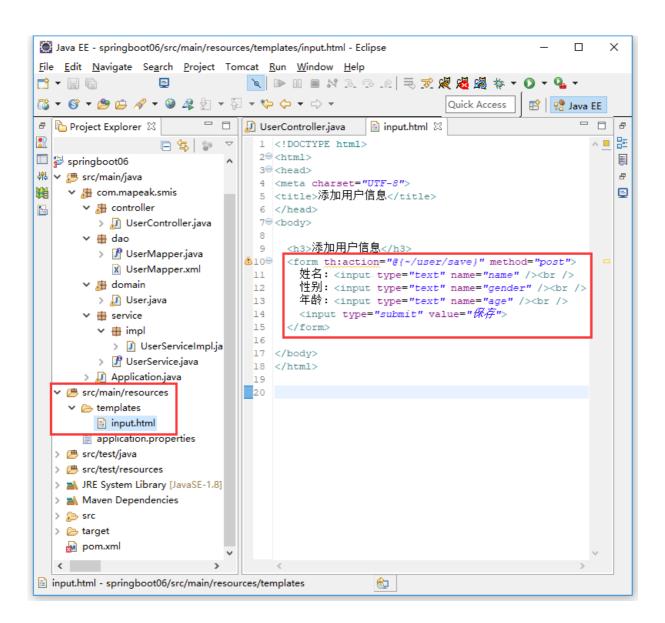


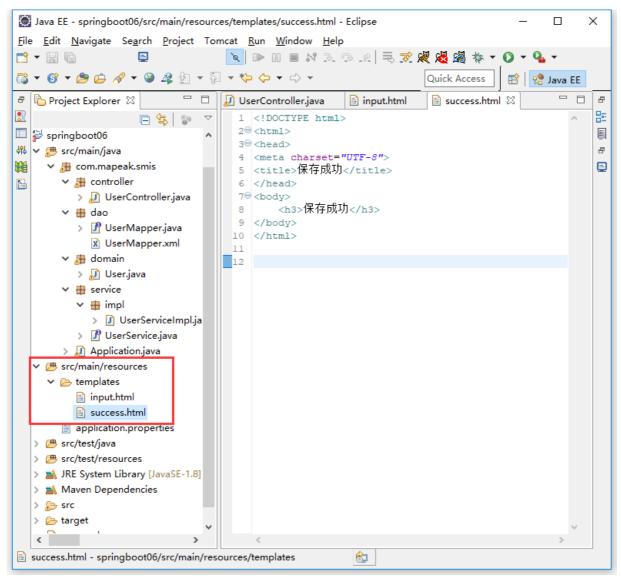


3, controller:

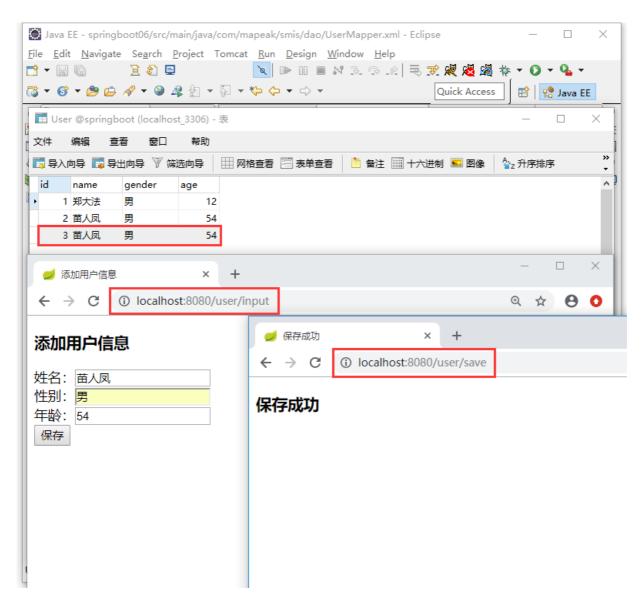


4、Thymeleaf 页面:



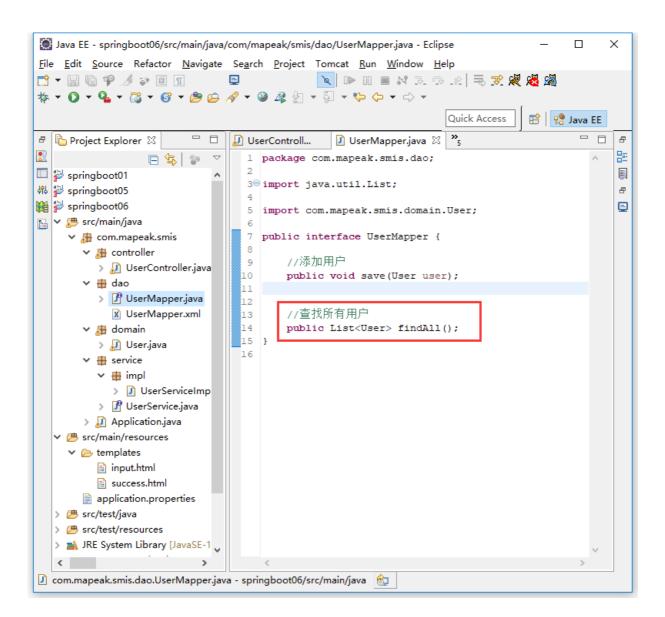


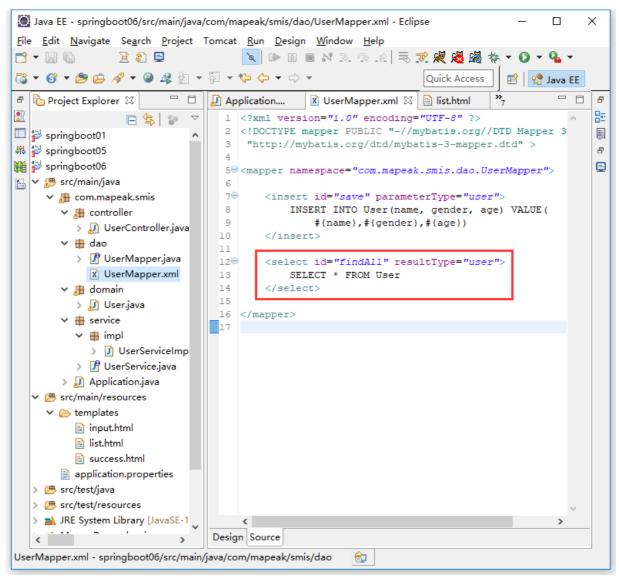
5、运行:



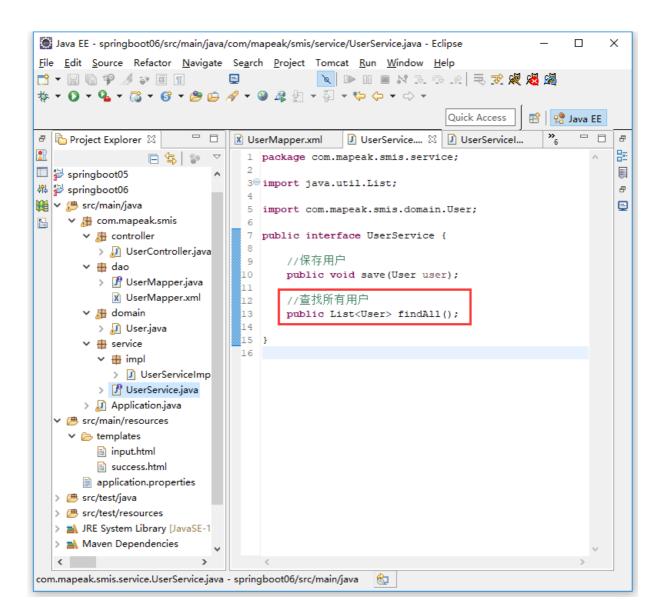
用户列表展示:

1, dao:





2, service:



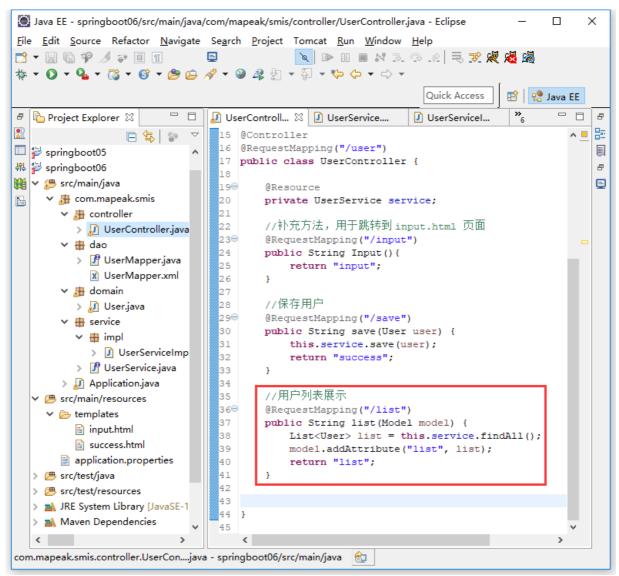
```
🥘 Java EE - springboot06/src/main/java/com/mapeak/smis/service/impl/UserServiceImpl.java - Eclipse
                                                                                     \times
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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₽ Project Explorer 

                             🗓 UserMapper.xml
•
                                                                                      먎
                               package com.mapeak.smis.service.impl;
springboot05
                                                                                      3⊕ import java.util.List; ...
🚜 월 springboot06
                                                                                      8
🙀 🗸 📂 src/main/java
                                                                                      ▣
                              14 @Service
    15 @Transactional
      16 public class UserServiceImpl implements UserService {
        > 🕖 UserController.java
                                     //注入UserMapper 接口对象
                             18
       🗸 🖶 dao
                             19⊖
                                    @Resource
         > II UserMapper.java
                             20
                                    private UserMapper dao;
          X UserMapper.xml
                              21
       22⊖
                                    @Override
                             △23
                                    public void save(User user) {
        > 🕡 User.java
                             24
       🗸 🌐 service
                                        dao.save(user);
                              25
        🗸 🌐 impl
                              26
           27⊖
                                    @Override
         > If UserService.java
                             △28
                                    public List<User> findAll() {
       > 🕖 Application.java
                              29
                                         return dao.findAll();
                              30
  31

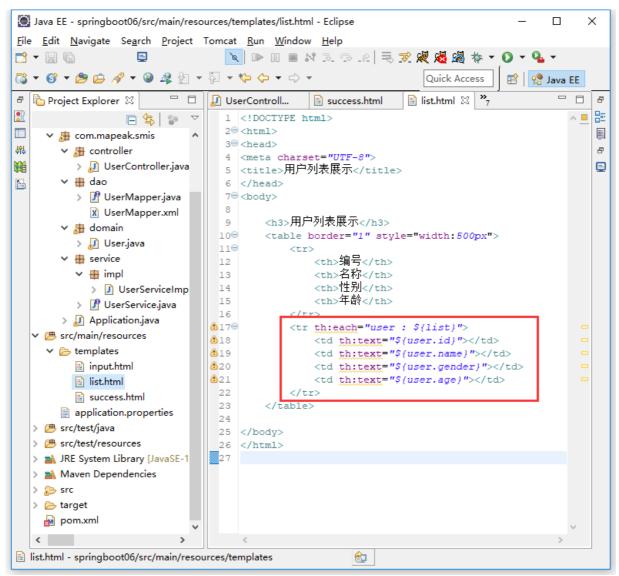
→ b templates

                              32 }
        input.html
                              33
        success.html
      application.properties
  > 😕 src/test/java
  > 🕭 src/test/resources
  > 🔼 JRE System Library [JavaSE-1
  > 🚵 Maven Dependencies
com.mapeak.smis.service.impl.UserSe...l.java - springboot06/src/main/java 🚷
```

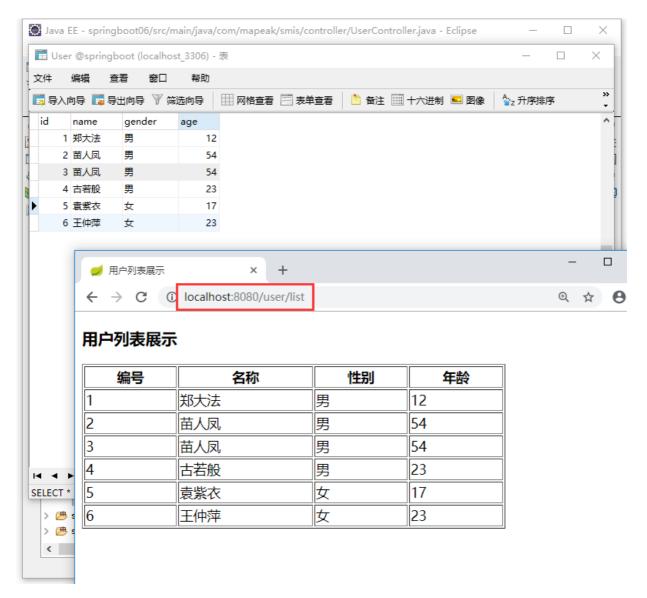
3, controller:



4、Thymeleaf 页面:

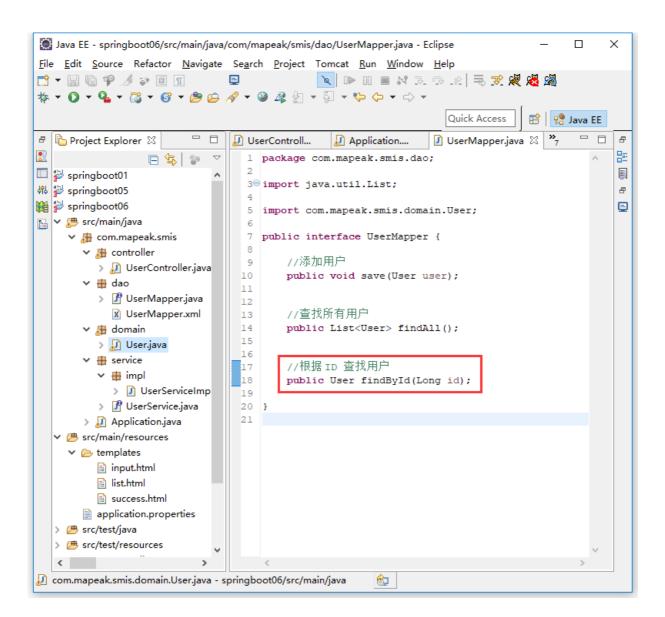


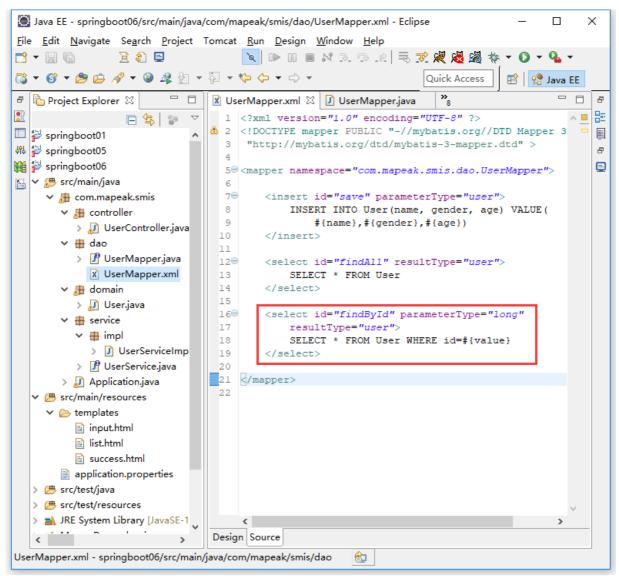
5、运行:



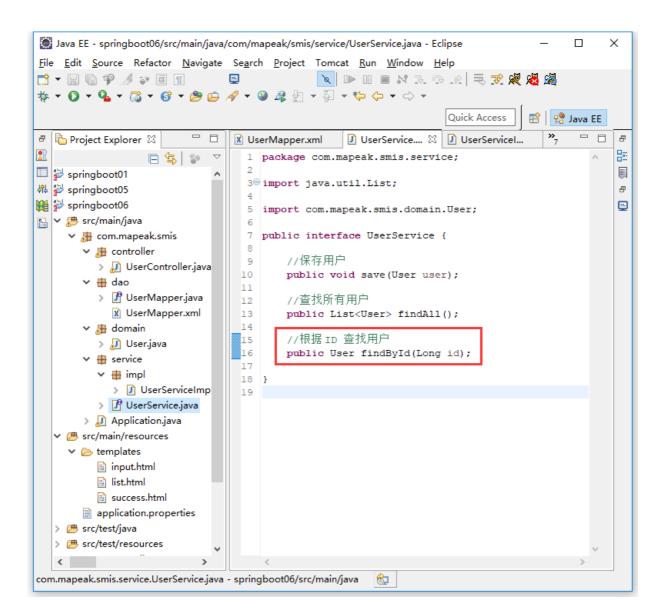
用户修改表单回显:

1、dao:





2, service:

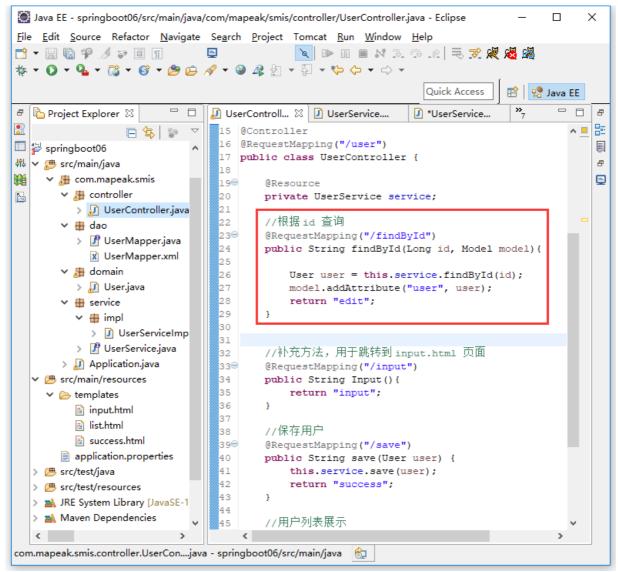


```
🥘 Java EE - springboot06/src/main/java/com/mapeak/smis/service/impl/UserServiceImpl.java - Eclipse
                                                                                         \times
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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                                                              8
🗗 陷 Project Explorer 🖂
                              🗓 UserMapper.xml 🗓 UserService....
먎
                                 package com.mapeak.smis.service.impl;
springboot01
                                                                                          3⊕ import java.util.List; ...
👭 👺 springboot05
                                                                                          8
🙀 👺 springboot06
                                                                                          ▣
                               14 @Service
📔 🗸 🕮 src/main/java
                               15 @Transactional
    ∨ Æ com.mapeak.smis
                               16 public class UserServiceImpl implements UserService {

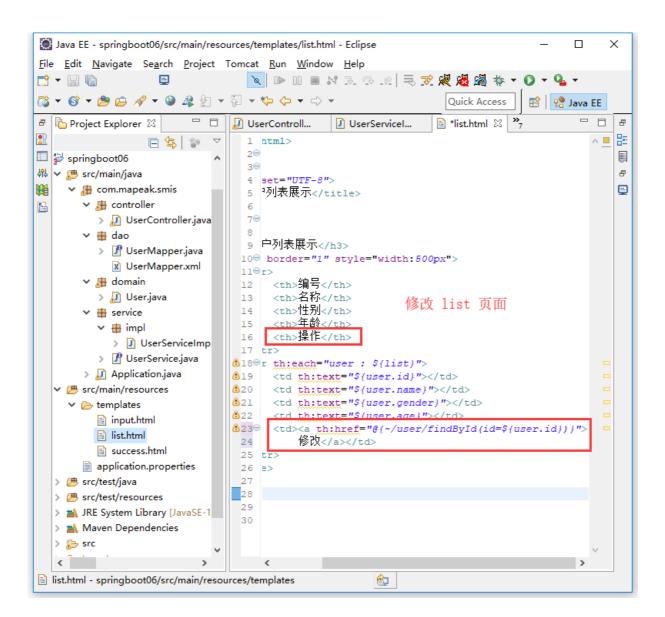
▼ A controller

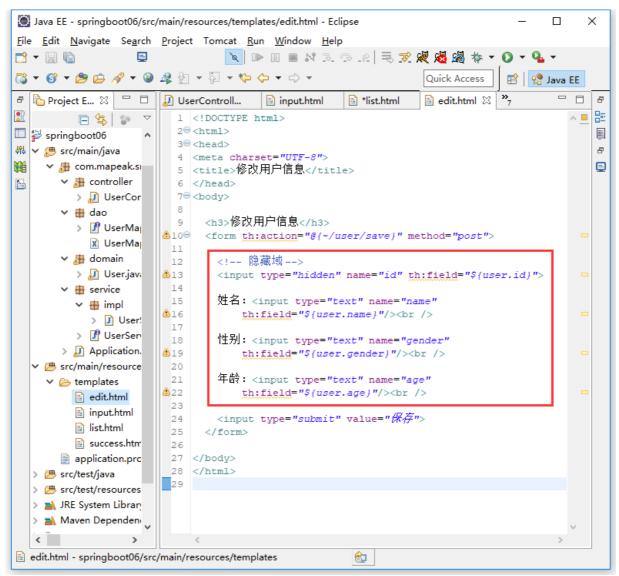
                                       //注入UserMapper 接口对象
                               18
         > 🔎 UserController.java
                               19⊖
                                      @Resource
       🗸 🌐 dao
                               20
                                     private UserMapper dao;
         > IP UserMapper.java
                               21
           X UserMapper.xml
                               22⊖
                                      @Override
                              △23
                                      public void save(User user) {
       24
                                         dao.save(user);
         > 🔝 User.java
                               25
       🗸 🏭 service
                               26
         🗸 🌐 impl
                               27⊖
                                      @Override
           > 🚺 UserServiceImp
                              △28
                                      public List<User> findAll() {
         > 🗗 UserService.java
                               29
                                           return dao.findAll();
                               30
       > 🔎 Application.java
                               31
   32⊖
433
                                       @Override
    🗸 🗁 templates
                                       public User findById(Long id) {
         input.html
                               34
                                          return dao.findById(id);
         list.html
                               35
                               36
         success.html
                               37 }
       application.properties
                               38
  > 乃 src/test/java
  > 🕭 src/test/resources
com.mapeak.smis.service.impl.UserSe...l.java - springboot06/src/main/java 🚷
```

3, controller:

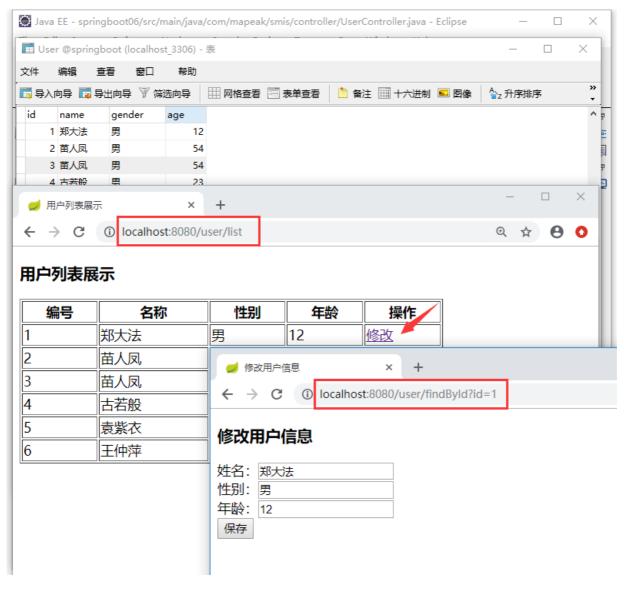


4、 页面:



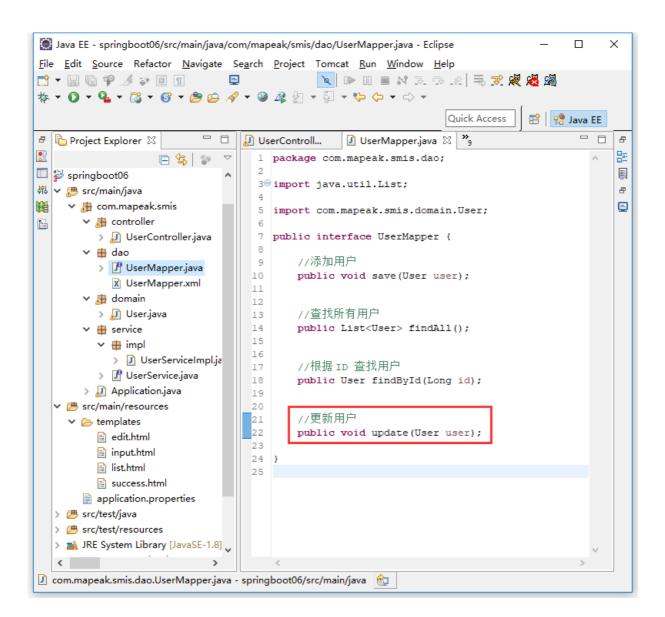


5、运行:



用户保存修改:

1, dao:



```
🗿 Java EE - springboot06/src/main/java/com/mapeak/smis/dao/UserMapper.xml - Eclipse
                                                                                     X
File Edit Navigate Search Project Tomcat Run Design Window Help
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₽ Project Explorer 🛭
                            🗷 UserMapper.xml 🛭 🗾 UserMapper.java
                                                                                      8
                                                                                      믊
                            1 <?xml version="1.0" encoding="UTF-8" ?>
                              2 <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.
🔲 👺 springboot06
                                                                                      "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
👭 🗸 🥦 src/main/java
                                                                                      8
▣
                             50 <mapper namespace="com.mapeak.smis.dao.UserMapper">
      6
         > 🕖 UserController.jav
                              7⊖
                                   <insert id="save" parameterType="user">
                             8
                                    INSERT INTO User(name, gender, age) VALUE(
       🗸 🆶 dao
                              9
                                          #{name},#{gender},#{age})
         > 🗗 UserMapper.java
                             10
                                    </insert>
          X UserMapper.xml
                             11
      120
                                   <select id="findAll" resultType="user">
         > 🔎 User.java
                             13
                                       SELECT * FROM User
                             14
                                    </select>
       15
         🗸 🌐 impl
                                    <select id="findById" parameterType="long"</pre>
                             16⊖
           > 🚺 UserServiceIm
                             17
                                       resultType="user">
         SELECT * FROM User WHERE id=#{value}
                             18
       > 🔎 Application.java
                             19
                                    </select>
  20
                            21⊖
                                   <update id="update" parameterType="user">

✓ 

    bemplates

                             22
                                       UPDATE User SET name=#{name},gender=#{gender}
         edit.html
                             23
                                        ,age=#{age} WHERE id=#{id}
         input.html
                             24
                                    </update>
         list.html
                             25
         success.html
                             26 </mapper>
                            27
       application.properties
  > 乃 src/test/java
  > # src/test/resources
  > A JRE System Library [JavaSE-
  > 🔌 Maven Dependencies
                            Design Source
UserMapper.xml - springboot06/src/main/java/com/mapeak/smis/dao
                                                  8
```

2, service:

```
🥘 Java EE - springboot06/src/main/java/com/mapeak/smis/service/impl/UserServiceImpl.java - Eclipse
                                                                                          \times
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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☑ UserServiceI... 
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₽ Project Explorer 

                                   •
                                                                                           먎
                     1 package com.mapeak.smis.service.impl;
springboot06
                                                                                           3⊕ import java.util.List; ...
₩ 🕶 src/main/java
                                                                                           8
                                    13
                                                                                           ▣
鯛

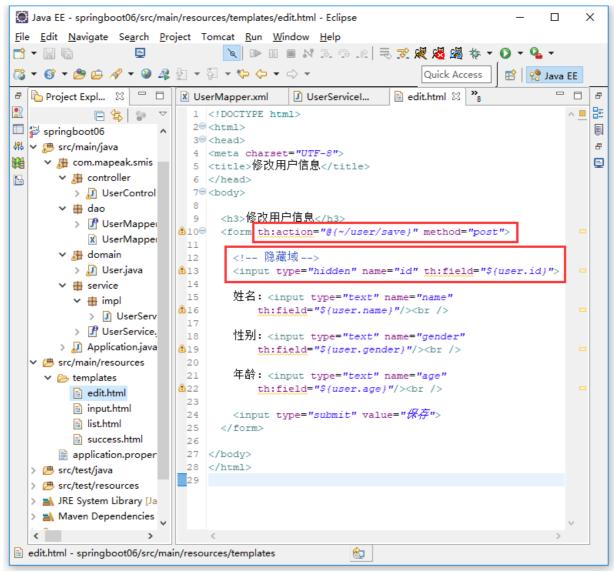
    com.mapeak.smis

                                    14 @Service
       15 @Transactional
> 🕖 UserController.java
                                    16 public class UserServiceImpl implements UserServi
       🗸 🖶 dao
                                    18
                                           //注入UserMapper 接口对象
         > II UserMapper.java
                                    19⊝
                                           @Resource
           X UserMapper.xml
                                    20
                                           private UserMapper dao;
       21
         > 🔎 User.java
                                    229
                                           @Override
                                   423
                                           public void save(User user) {
       service
                                              //判断是添加还是修改
                                    24
         🗸 🌐 impl
                                    25
                                               if (user.getId() != null)
           > 🚺 UserServiceImpl.java
                                    26
                                                  dao.update(user); //修改
         > II UserService.java
                                    27
       > 🕖 Application.java
                                    28
                                               dao.save(user); //添加
  29
                                    30

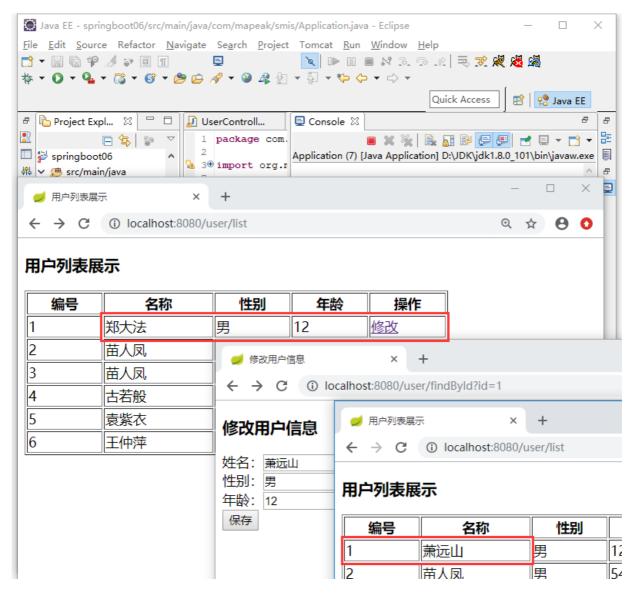
→ b templates

                                    31⊖
                                           @Override
         edit.html
                                   32
                                           public List<User> findAll() {
         input.html
                                    33
                                               return dao.findAll();
         list.html
                                    34
         success.html
                                    35
                                    36⊖
       application.properties
                                           @Override
                                   ⇔37
                                           public User findById(Long id) {
  > 🕭 src/test/java
                                    38
                                               return dao.findById(id);
  > # src/test/resources
                                    39
  > March JRE System Library [JavaSE-1.8]
                                    40 }
                                        <
com.mapeak.smis.service.impl.UserSe...l.java - springboot06/src/main/java 🐁
```

3、页面:

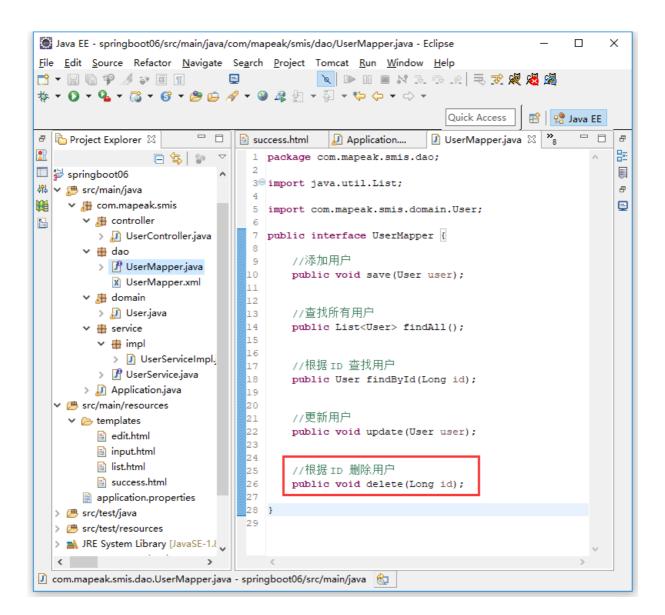


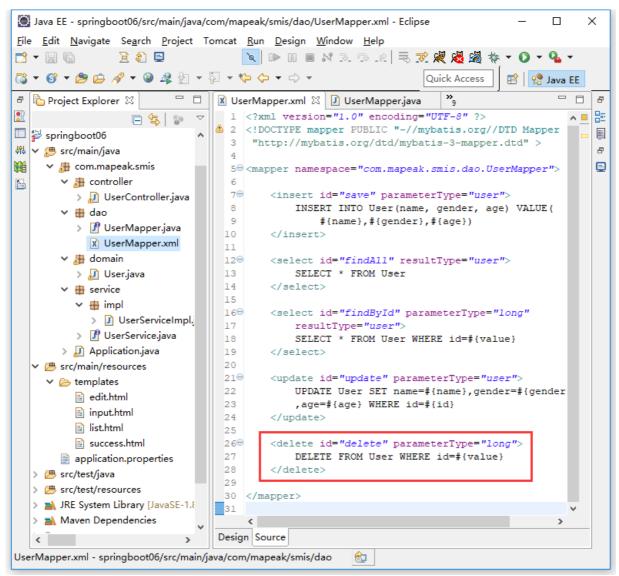
4、运行:



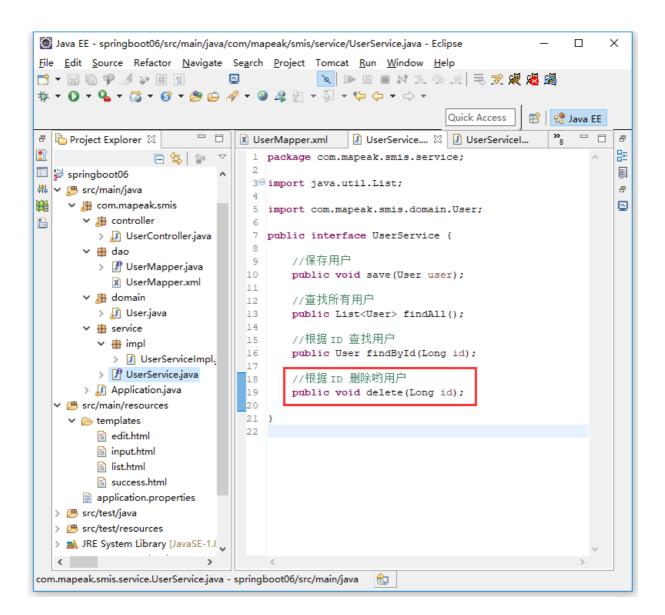
用户数据删除:

1、dao:





2, service:



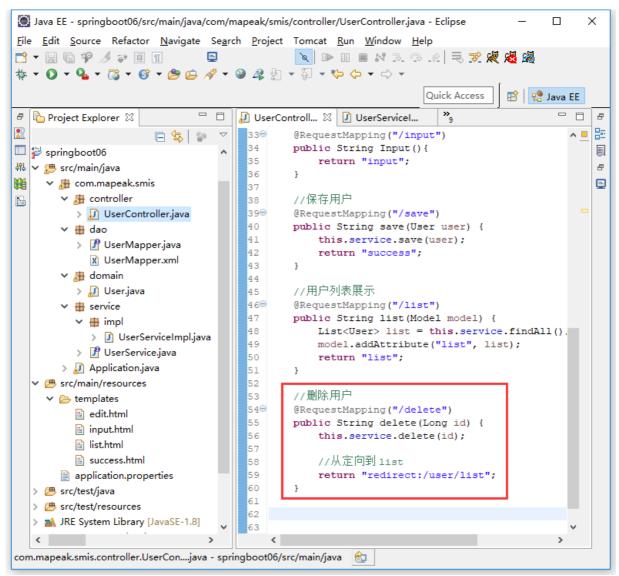
```
🥘 Java EE - springboot06/src/main/java/com/mapeak/smis/service/impl/UserServiceImpl.java - Eclipse
                                                                                          \times
<u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject Tomcat <u>R</u>un <u>W</u>indow <u>H</u>elp
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☑ UserServiceI... 
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🗗 陷 Project Explorer 🛭
                                   UserService....
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                                \nabla
                      1 package com.mapeak.smis.service.impl;
🔲 💋 springboot06
                                                                                            3⊕ import java.util.List; ...
₩ 🕶 src/main/java
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                                     13
                                                                                            ▣
鯛
   14 @Service
       15 @Transactional
> 🕖 UserController.java
                                    16 public class UserServiceImpl implements UserServ:
       🗸 🖶 dao
                                            //注入UserMapper 接口对象
                                    18
         > II UserMapper.java
                                    19⊖
                                           @Resource
           X UserMapper.xml
                                    20
                                           private UserMapper dao;
       21
         > 🔎 User.java
                                    22⊖
                                           @Override
                                    423
                                           public void save(User user) {
       service
                                               //判断是添加还是修改
                                    24
         🗸 🌐 impl
                                     25
                                                if (user.getId() != null)
            > 🚺 UserServiceImpl.java
                                    26
                                                   dao.update(user); //修改
         > If UserService.java
                                    27
       > 🕖 Application.java
                                    28
                                                dao.save(user); //添加
   29
                                    30

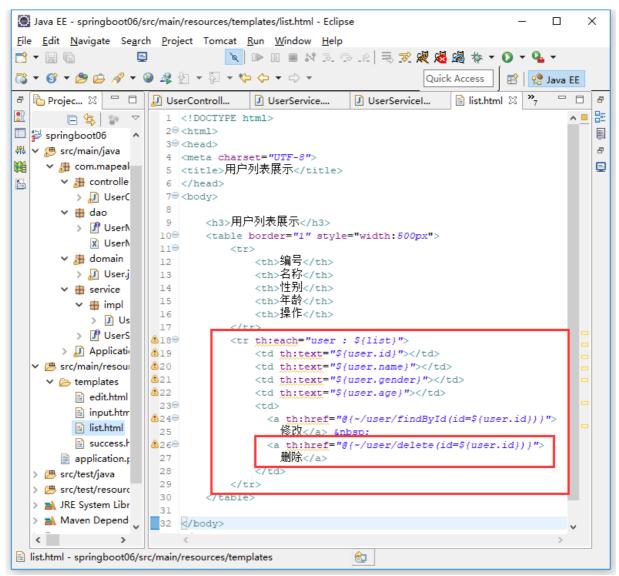
→ b templates

                                    31⊖
                                            @Override
         edit.html
                                    32
                                            public void delete(Long id) {
         input.html
                                     33
                                                dao.delete(id);
         list.html
                                    34
         success.html
                                    35
                                    36⊖
       application.properties
                                            @Override
                                    ⇔37
                                            public List<User> findAll() {
  > 🕭 src/test/java
                                    38
                                                return dao.findAll();
  > # src/test/resources
                                    39
  > March JRE System Library [JavaSE-1.8]
                                    40
com.mapeak.smis.service.impl.UserSe...l.java - springboot06/src/main/java 🐁
```

3, controller:



4、Thymeleaf 页面:



5、运行:

