第三阶段

a)页面 jsp 动态化

- 1、在 html 页面顶行添加 page 指令。
- 2、修改文件后缀名为:.jsp
- 3、使用 IDEA 搜索替换.html 为.jsp(快捷键: Ctrl+Shift+R)

b)抽取页面中相同的内容

i. head 中 css、jquery、base 标签

```
<base href="http://localhost:8080/book/">
link type="text/css" rel="stylesheet" href="static/css/style.css">
<script type="text/javascript" src="static/script/jquery-1.7.2.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip
```

ii. 每个页面的页脚

iii. 登录成功后的菜单

iv. manager 模块的菜单

动态获取 basePath

c)登录,注册错误提示,及表单回显

```
import com.admiral.web;
import com.admiral.pojo.User;
import com.admiral.service.UserService;
import com.admiral.service.impl.UserServiceImpl;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpServletResponse;
import javax.io.IOException;
```

```
public class LoginServlet extends HttpServlet {
   private UserService userService = new UserServiceImpl();
   protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
       //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       //2.调用 UserService 的 login 方法
       User login = userService.login(new User(null, username, password,
null));
       if(login!=null){
           //成功,跳转到登陆成功页面
 request.getRequestDispatcher("/pages/user/login_success.jsp").forward(request
,response);
       }else {
           //保存错误信息到reques域中
           request.setAttribute("errorMsg","用户名或密码错误!");
           request.setAttribute("username", username);
           //失败.跳转到登陆页面
request.getRequestDispatcher("/pages/user/login.jsp").forward(request,respons
e);
       }
    }
}
```

login.jsp

```
<span class="login_word">欢迎登录</span>
    </div>
    <div id="content">
        <div class="login_form">
            <div class="login box">
                <div class="tit">
                    <h1>会员登陆</h1>
                    <a href="regist.jsp">立即注册</a>
                </div>
                <div class="msg_cont">
                    <b></b>
                    <span class="errorMsg">
<%=request.getAttribute("errorMsg")==null?"请输入用户名和密
码":request.getAttribute("errorMsg")%></span>
                </div>
                <div class="form">
                    <form action="loginServlet" method="post">
                        <label>用户名称: </label>
                        <input class="itxt" type="text" placeholder="请输入用户</pre>
名" autocomplete="off" tabindex="1"
                               name="username" value="
<%=request.getAttribute("username")==null?"":request.getAttribute("username")%</pre>
>"/>
                        <br/>
                        <br/>
                        <label>用户密码: </label>
                        <input class="itxt" type="password" placeholder="请输入</pre>
密码" autocomplete="off" tabindex="1"
                               name="password"/>
                        <br/>
                        <br/>
                        <input type="submit" value="登录" id="sub btn"/>
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>
<%-- 静态包含页脚 --%>
<%@ include file="/pages/common/footer.jsp"%>
</body>
</html>
```

注册

```
package com.admiral.web;
```

```
import com.admiral.pojo.User;
import com.admiral.service.UserService;
import com.admiral.service.impl.UserServiceImpl;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
public class RegistServlet extends HttpServlet {
   private UserService userService = new UserServiceImpl();
   protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       String email = request.getParameter("email");
       String code = request.getParameter("code");
        //2. 坚持验证码是否正确
       if("abcde".equalsIgnoreCase(code)){//正确
           //检查用户名是否可用
           if(userService.existsUsername(username)){
               //不可用,跳转到注册页面
               System.out.println("用户名[" + username + "]已存在");
               request.setAttribute("errorMsg","用户名已存在");
               request.setAttribute("username", username);
               request.setAttribute("email",email);
 request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,respon
se);
           }else {
               //可用,掉用 Service 保存用户
               userService.register(new User(null, username, password, email));
               //跳转到注册成功页面
 request.getRequestDispatcher("/pages/user/regist_success.jsp").forward(reques
t, response);
           }
       }else {
           //验证码不正确,跳转到注册页面
           System.out.println("验证码[" + code + "]错误");
```

```
request.setAttribute("errorMsg","验证码错误");
request.setAttribute("username",username);
request.setAttribute("email",email);

request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,respon se);
}

}
```

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>会员注册页面</title>
   <%-- 静态包含 base css样式 jQuery --%>
   <%@ include file="/pages/common/header.jsp"%>
   <script type="text/javascript">
       // 页面加载完成之后
       $(function () {
          // 给注册绑定单击事件
           $("#sub_btn").click(function () {
              // 验证用户名: 必须由字母, 数字下划线组成, 并且长度为5到12位
              //1 获取用户名输入框里的内容
              var usernameText = $("#username").val();
              //2 创建正则表达式对象
              var usernamePatt = /^{w{5,12}};
              //3 使用test方法验证
              if (!usernamePatt.test(usernameText)) {
                  //4 提示用户结果
                  $("span.errorMsg").text("用户名不合法!");
                  return false;
              }
              // 验证密码: 必须由字母, 数字下划线组成, 并且长度为5到12位
              //1 获取用户名输入框里的内容
              var passwordText = $("#password").val();
              //2 创建正则表达式对象
              var passwordPatt = /^{w{5,12}};
              //3 使用test方法验证
              if (!passwordPatt.test(passwordText)) {
```

```
//4 提示用户结果
                  $("span.errorMsg").text("密码不合法!");
                 return false;
              }
              // 验证确认密码: 和密码相同
              //1 获取确认密码内容
              var repwdText = $("#repwd").val();
              //2 和密码相比较
              if (repwdText != passwordText) {
                 //3 提示用户
                  $("span.errorMsg").text("确认密码和密码不一致!");
                 return false;
              }
              // 邮箱验证: xxxxx@xxx.com
              //1 获取邮箱里的内容
              var emailText = $("#email").val();
              //2 创建正则表达式对象
              var emailPatt = /^[a-z]d+(\.[a-z]d+)*@([\da-z](-[\da-z])?)+
(\.\{1,2\}[a-z]+)+\$/;
              //3 使用test方法验证是否合法
              if (!emailPatt.test(emailText)) {
                  //4 提示用户
                  $("span.errorMsg").text("邮箱格式不合法!");
                 return false;
              }
              // 验证码: 现在只需要验证用户已输入。因为还没讲到服务器。验证码生成。
              var codeText = $("#code").val();
              //去掉验证码前后空格
              // alert("去空格前: ["+codeText+"]")
              codeText = $.trim(codeText);
              // alert("去空格后: ["+codeText+"]")
              if (codeText == null | codeText == "") {
                 //4 提示用户
                  $("span.errorMsg").text("验证码不能为空!");
                 return false;
              }
              // 去掉错误信息
              $("span.errorMsg").text("");
```

```
});
        });
    </script>
    <style type="text/css">
        .login form {
            height: 420px;
            margin-top: 25px;
        }
    </style>
</head>
<body>
<div id="login header">
    <img class="logo_img" alt="" src="static/img/logo.gif">
</div>
<div class="login_banner">
    <div id="l_content">
        <span class="login_word">欢迎注册</span>
    </div>
    <div id="content">
        <div class="login_form">
            <div class="login box">
                <div class="tit">
                    <h1>注册会员</h1>
                    <span class="errorMsg">
<%=request.getAttribute("errorMsg")==null?"":request.getAttribute("errorMsg")%</pre>
></span>
                </div>
                <div class="form">
                    <form action="registServlet" method="post">
                        <label>用户名称: </label>
                        <input class="itxt" type="text" placeholder="请输入用户</pre>
名"
                                autocomplete="off" tabindex="1" name="username"
id="username"
                                 value="
<%=request.getAttribute("username")==null?"":request.getAttribute("username")%</pre>
>"/>
                        <br/>
                        <br/>
                        <label>用户密码: </label>
                        <input class="itxt" type="password" placeholder="请输入</pre>
密码"
```

```
autocomplete="off" tabindex="1" name="password"
id="password"/>
                        <br/>
                        <br/>
                        <label>确认密码: </label>
                        <input class="itxt" type="password" placeholder="确认密
码"
                               autocomplete="off" tabindex="1" name="repwd"
id="repwd"/>
                        <br/>
                        <br/>
                        <label>电子邮件: </label>
                        <input class="itxt" type="text" placeholder="请输入邮箱
地址"
                               autocomplete="off" tabindex="1" name="email"
id="email"
                            value="
<%=request.getAttribute("email")==null?"":request.getAttribute("email")%>"/>
                        <br/>
                        <br/>
                        <label>验证码: </label>
                        <input class="itxt" type="text" name="code"</pre>
style="width: 150px;" id="code"/>
                        <img alt="" src="static/img/code.bmp" style="float:</pre>
right; margin-right: 40px">
                        <br/>
                        <br/>
                        <input type="submit" value="注册" id="sub_btn"/>
                    </form>
                </div>
           </div>
        </div>
   </div>
</div>
<%-- 静态包含页脚 --%>
<%@ include file="/pages/common/footer.jsp"%>
</body>
</html>
```

d)BaseServlet 的抽取

在实际的项目开发中,一个模块,一般只使用一个 Servlet 程序。

代码优化一: 代码优化: 合并 LoginServlet 和 RegistServlet 程序为 UserServlet 程序

```
package com.admiral.web;
import com.admiral.pojo.User;
import com.admiral.service.UserService;
import com.admiral.service.impl.UserServiceImpl;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
public class UserServlet extends HttpServlet {
   private UserService userService = new UserServiceImpl();
   protected void login(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
        //2.调用 UserService 的 login 方法
       User login = userService.login(new User(null, username, password,
null));
       if (login != null) {
           //成功,跳转到登陆成功页面
 request.getRequestDispatcher("/pages/user/login_success.jsp").forward(request
, response);
       } else {
           //保存错误信息到reques域中
           request.setAttribute("errorMsg", "用户名或密码错误!");
           request.setAttribute("username", username);
            //失败.跳转到登陆页面
 request.getRequestDispatcher("/pages/user/login.jsp").forward(request,
response);
        }
    }
   protected void regist(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
       //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       String email = request.getParameter("email");
       String code = request.getParameter("code");
        //2. 坚持验证码是否正确
        if ("abcde".equalsIgnoreCase(code)) {//正确
```

```
//检查用户名是否可用
           if (userService.existsUsername(username)) {
               //不可用,跳转到注册页面
               System.out.println("用户名[" + username + "]已存在");
               request.setAttribute("errorMsg", "用户名已存在");
               request.setAttribute("username", username);
               request.setAttribute("email", email);
 request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,
response);
           } else {
               //可用,掉用 Service 保存用户
               userService.register(new User(null, username, password,
email));
               //跳转到注册成功页面
 request.getRequestDispatcher("/pages/user/regist success.jsp").forward(reques
t, response);
       } else {
           //验证码不正确,跳转到注册页面
           System.out.println("验证码[" + code + "]错误");
           request.setAttribute("errorMsg", "验证码错误");
           request.setAttribute("username", username);
           request.setAttribute("email", email);
 request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,
response);
       }
    }
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
       String action = request.getParameter("action");
       System.out.println(action);
       if ("login".equals(action)) {
           login(request, response);
       } else if ("regist".equals(action)) {
           regist(request, response);
       }
    }
}
```

在 login.jsp 中添加隐藏域

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>会员登录页面</title>
    <%-- 静态包含 base css样式 jQuery --%>
    <%@ include file="/pages/common/header.jsp"%>
</head>
<body>
<div id="login_header">
    <img class="logo_img" alt="" src="static/img/logo.gif">
</div>
<div class="login_banner">
    <div id="l content">
       <span class="login_word">欢迎登录</span>
    </div>
    <div id="content">
        <div class="login form">
            <div class="login_box">
                <div class="tit">
                   <h1>会员登陆</h1>
                    <a href="regist.jsp">立即注册</a>
                </div>
                <div class="msg cont">
                   <b></b>
                   <span class="errorMsg">
<%=request.getAttribute("errorMsg")==null?"请输入用户名和密
码":request.getAttribute("errorMsg")%></span>
               </div>
                <div class="form">
                    <form action="userServlet" method="post">
                        <input type="hidden" name="action" value="login">
                        <label>用户名称: </label>
                        <input class="itxt" type="text" placeholder="请输入用户
名" autocomplete="off" tabindex="1"
                               name="username" value="
<%=request.getAttribute("username")==null?"":request.getAttribute("username")%</pre>
>"/>
                        <br/>>
                        <br/>
                        <label>用户密码: </label>
```

```
<input class="itxt" type="password" placeholder="请输入</pre>
密码" autocomplete="off" tabindex="1"
                               name="password"/>
                        <br/>
                        <br/>
                        <input type="submit" value="登录" id="sub_btn"/>
                    </form>
                </div>
            </div>
        </div>
   </div>
</div>
<%-- 静态包含页脚 --%>
<%@ include file="/pages/common/footer.jsp"%>
</body>
</html>
```

Regist.jsp

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>会员注册页面</title>
   <%-- 静态包含 base css样式 jQuery --%>
   <%@ include file="/pages/common/header.jsp"%>
   <script type="text/javascript">
       // 页面加载完成之后
       $(function () {
          // 给注册绑定单击事件
          $("#sub btn").click(function () {
              // 验证用户名: 必须由字母, 数字下划线组成, 并且长度为5到12位
              //1 获取用户名输入框里的内容
              var usernameText = $("#username").val();
              //2 创建正则表达式对象
              var usernamePatt = /^w{5,12};
              //3 使用test方法验证
              if (!usernamePatt.test(usernameText)) {
                 //4 提示用户结果
                 $("span.errorMsg").text("用户名不合法!");
                 return false;
              }
              // 验证密码:必须由字母,数字下划线组成,并且长度为5到12位
```

```
//1 获取用户名输入框里的内容
              var passwordText = $("#password").val();
              //2 创建正则表达式对象
              var passwordPatt = /^{w{5,12}};
              //3 使用test方法验证
              if (!passwordPatt.test(passwordText)) {
                 //4 提示用户结果
                 $("span.errorMsg").text("密码不合法!");
                 return false;
              }
              // 验证确认密码: 和密码相同
              //1 获取确认密码内容
              var repwdText = $("#repwd").val();
              //2 和密码相比较
              if (repwdText != passwordText) {
                 //3 提示用户
                  $("span.errorMsg").text("确认密码和密码不一致!");
                 return false;
              }
              // 邮箱验证: xxxxx@xxx.com
              //1 获取邮箱里的内容
              var emailText = $("#email").val();
              //2 创建正则表达式对象
              var \ emailPatt = /^[a-z\d]+(\.[a-z\d]+)*@([\da-z](-[\da-z])?)+
(\.\{1,2\}[a-z]+)+$/;
              //3 使用test方法验证是否合法
              if (!emailPatt.test(emailText)) {
                 //4 提示用户
                  $("span.errorMsg").text("邮箱格式不合法!");
                 return false;
              }
              // 验证码: 现在只需要验证用户已输入。因为还没讲到服务器。验证码生成。
              var codeText = $("#code").val();
              //去掉验证码前后空格
              // alert("去空格前: ["+codeText+"]")
              codeText = $.trim(codeText);
              // alert("去空格后: ["+codeText+"]")
              if (codeText == null | codeText == "") {
                 //4 提示用户
                  $("span.errorMsg").text("验证码不能为空!");
```

```
return false;
                }
                // 去掉错误信息
                $("span.errorMsg").text("");
            });
        });
   </script>
    <style type="text/css">
        .login form {
            height: 420px;
            margin-top: 25px;
        }
    </style>
</head>
<body>
<div id="login_header">
   <img class="logo_img" alt="" src="static/img/logo.gif">
</div>
<div class="login_banner">
    <div id="l content">
        <span class="login_word">欢迎注册</span>
   </div>
   <div id="content">
        <div class="login_form">
            <div class="login box">
                <div class="tit">
                    <h1>注册会员</h1>
                    <span class="errorMsg">
<%=request.getAttribute("errorMsg")==null?"":request.getAttribute("errorMsg")%</pre>
></span>
                </div>
                <div class="form">
                    <form action="userServlet" method="post">
                        <input type="hidden" name="action" value="regist">
                        <label>用户名称: </label>
                        <input class="itxt" type="text" placeholder="请输入用户</pre>
名"
                               autocomplete="off" tabindex="1" name="username"
id="username"
```

```
value="
<%=request.getAttribute("username")==null?"":request.getAttribute("username")%</pre>
>"/>
                        <br/>
                        <br/>
                        <label>用户密码: </label>
                        <input class="itxt" type="password" placeholder="请输入
密码"
                               autocomplete="off" tabindex="1" name="password"
id="password"/>
                        <br/>
                        <br/>
                        <label>确认密码: </label>
                        <input class="itxt" type="password" placeholder="确认密
码"
                               autocomplete="off" tabindex="1" name="repwd"
id="repwd"/>
                        <br/>
                        <br/>
                        <label>电子邮件: </label>
                        <input class="itxt" type="text" placeholder="请输入邮箱
地址"
                               autocomplete="off" tabindex="1" name="email"
id="email"
                            value="
<%=request.getAttribute("email")==null?"":request.getAttribute("email")%>"/>
                        <br/>
                        <br/>
                        <label>验证码: </label>
                        <input class="itxt" type="text" name="code"</pre>
style="width: 150px;" id="code"/>
                        <img alt="" src="static/img/code.bmp" style="float:</pre>
right; margin-right: 40px">
                        <br/>
                        <br/>
                        <input type="submit" value="注册" id="sub_btn"/>
                    </form>
                </div>
            </div>
        </div>
   </div>
</div>
<%-- 静态包含页脚 --%>
<%@ include file="/pages/common/footer.jsp"%>
</body>
</html>
```

优化代码二: 使用反射优化大量 else if 代码

UserServlet.java 完整代码

```
package com.admiral.web;
import com.admiral.pojo.User;
import com.admiral.service.UserService;
import com.admiral.service.impl.UserServiceImpl;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.lang.reflect.Method;
public class UserServlet extends HttpServlet {
    private UserService userService = new UserServiceImpl();
    protected void login(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        //1.获取请求参数
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        //2.调用 UserService 的 login 方法
        User login = userService.login(new User(null, username, password,
null));
       if (login != null) {
            //成功,跳转到登陆成功页面
request.getRequestDispatcher("/pages/user/login_success.jsp").forward(request
, response);
        } else {
            //保存错误信息到reques域中
```

```
request.setAttribute("errorMsg", "用户名或密码错误!");
           request.setAttribute("username", username);
           //失败.跳转到登陆页面
 request.getRequestDispatcher("/pages/user/login.jsp").forward(request,
response);
       }
   }
    protected void regist(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
       //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       String email = request.getParameter("email");
       String code = request.getParameter("code");
       //2. 坚持验证码是否正确
       if ("abcde".equalsIgnoreCase(code)) {//正确
           //检查用户名是否可用
           if (userService.existsUsername(username)) {
               //不可用,跳转到注册页面
               System.out.println("用户名[" + username + "]已存在");
               request.setAttribute("errorMsg", "用户名已存在");
               request.setAttribute("username", username);
               request.setAttribute("email", email);
 request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,
response);
           } else {
               //可用,掉用 Service 保存用户
               userService.register(new User(null, username, password,
email));
               //跳转到注册成功页面
request.getRequestDispatcher("/pages/user/regist_success.jsp").forward(reques
t, response);
           }
       } else {
           //验证码不正确,跳转到注册页面
           System.out.println("验证码[" + code + "]错误");
           request.setAttribute("errorMsg", "验证码错误");
           request.setAttribute("username", username);
           request.setAttribute("email", email);
```

```
request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,
response);
        }
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String action = request.getParameter("action");
        System.out.println(action);
        try {
            Method declaredMethod = this.getClass().getDeclaredMethod(action,
HttpServletRequest.class, HttpServletResponse.class);
            declaredMethod.invoke(this,request,response);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

代码优化三: 抽取 BaseServlet 程序。

```
package com.admiral.web;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.lang.reflect.Method;
 * @author 白世鑫
 * @title: BaseServlet
 * @projectName JavaWeb
 * @description:
 * @date 2020/9/1 4:50 上午
public abstract class BaseServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String action = request.getParameter("action");
        System.out.println(action);
```

```
try {
          Method declaredMethod = this.getClass().getDeclaredMethod(action,
HttpServletRequest.class, HttpServletResponse.class);
          declaredMethod.invoke(this,request,response);
} catch (Exception e) {
          e.printStackTrace();
}
}
```

修改 UserServlet 继承 BaseServlet

```
package com.admiral.web;
import com.admiral.pojo.User;
import com.admiral.service.UserService;
import com.admiral.service.impl.UserServiceImpl;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
public class UserServlet extends BaseServlet {
   private UserService userService = new UserServiceImpl();
   protected void login(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       //2.调用 UserService 的 login 方法
       User login = userService.login(new User(null, username, password,
null));
       if (login != null) {
            //成功,跳转到登陆成功页面
request.getRequestDispatcher("/pages/user/login_success.jsp").forward(request
, response);
        } else {
           //保存错误信息到reques域中
           request.setAttribute("errorMsg", "用户名或密码错误!");
           request.setAttribute("username", username);
           //失败.跳转到登陆页面
 request.getRequestDispatcher("/pages/user/login.jsp").forward(request,
response);
```

```
protected void regist(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
       //1.获取请求参数
       String username = request.getParameter("username");
       String password = request.getParameter("password");
       String email = request.getParameter("email");
       String code = request.getParameter("code");
       //2. 坚持验证码是否正确
       if ("abcde".equalsIgnoreCase(code)) {//正确
           //检查用户名是否可用
           if (userService.existsUsername(username)) {
               //不可用,跳转到注册页面
               System.out.println("用户名[" + username + "]已存在");
               request.setAttribute("errorMsg", "用户名已存在");
               request.setAttribute("username", username);
               request.setAttribute("email", email);
 request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,
response);
           } else {
               //可用,掉用 Service 保存用户
               userService.register(new User(null, username, password,
email));
               //跳转到注册成功页面
 request.getRequestDispatcher("/pages/user/regist success.jsp").forward(reques
t, response);
           }
       } else {
           //验证码不正确,跳转到注册页面
           System.out.println("验证码[" + code + "]错误");
           request.setAttribute("errorMsg", "验证码错误");
           request.setAttribute("username", username);
           request.setAttribute("email", email);
 request.getRequestDispatcher("/pages/user/regist.jsp").forward(request,
response);
       }
    }
```

e)数据的封装和抽取 BeanUtils 的使用

BeanUtils 工具类,它可以一次性的把所有请求的参数注入到 JavaBean 中。

BeanUtils 工具类,经常用于把 Map 中的值注入到 JavaBean 中,或者是对象属性值的拷贝操作。

BeanUtils 它不是 Jdk 的类。而是第三方的工具类。所以需要导包。

- 1、导入需要的 jar 包:
 - o commons-beanutils-1.8.0.jar
 - o commons-logging-1.1.1.jar
- 2、编写 WebUtils 工具类使用:

```
package com.admiral.utils;
import org.apache.commons.beanutils.BeanUtils;
import javax.servlet.http.HttpServletRequest;
/**
 * @author 白世鑫
 * @title: BeanUtils
 * @projectName JavaWeb
 * @description:
 * @date 2020/9/1 5:15 上午
public class WebUtils {
    public static <T>T copyParamToBean(HttpServletRequest request, T bean){
        try {
            BeanUtils.populate(bean,request.getParameterMap());
//
              System.out.println("注入之后:" + bean);
        } catch (Exception e) {
            e.printStackTrace();
        return bean;
   }
}
```

第四阶段 使用 EL 表达式修改表单回显

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
   <title>会员登录页面</title>
   <%-- 静态包含 base css样式 JQuery --%>
    <%@ include file="/pages/common/header.jsp"%>
</head>
<body>
<div id="login header">
    <img class="logo_img" alt="" src="../../static/img/logo.gif">
</div>
<div class="login banner">
    <div id="l content">
       <span class="login_word">欢迎登录</span>
    </div>
    <div id="content">
       <div class="login form">
            <div class="login_box">
               <div class="tit">
                    <h1>会员登陆</h1>
                    <a href="regist.jsp">立即注册</a>
                </div>
               <div class="msg_cont">
                   <b></b>
                       <span class="errorMsg">
<%=request.getAttribute("errorMsg")==null?"请输入用户名和密
码":request.getAttribute("errorMsg")%></span>--%>
                    <span class="errorMsg">
                        ${empty requestScope.errorMsg?"请输入用户名和密
码":requestScope.errorMsg}
                   </span>
                </div>
                <div class="form">
                    <form action="userServlet" method="post">
                       <input type="hidden" name="action" value="login">
                       <label>用户名称: </label>
                       <input class="itxt" type="text" placeholder="请输入用户</pre>
名" autocomplete="off" tabindex="1"
                              name="username"/>
                       <br/>
                       <br/>>
                        <label>用户密码: </label>
```

```
<input class="itxt" type="password" placeholder="请输入</pre>
密码" autocomplete="off" tabindex="1"
                               name="password"/>
                        <br/>
                        <br/>
                        <input type="submit" value="登录" id="sub_btn"/>
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>
<%-- 静态包含页脚信息 --%>
<%@ include file="/pages/common/footer.jsp"%>
</body>
</html>
```

注册

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
   <meta charset="UTF-8">
   <title>会员注册页面</title>
   <%-- 静态包含 base css样式 JQuery --%>
   <%@ include file="/pages/common/header.jsp"%>
   <script type="text/javascript">
       // 页面加载完成之后
       $(function () {
           // 给注册绑定单击事件
           $("#sub_btn").click(function () {
              // 验证用户名: 必须由字母, 数字下划线组成, 并且长度为5到12位
              //1 获取用户名输入框里的内容
              var usernameText = $("#username").val();
              //2 创建正则表达式对象
              var usernamePatt = /^w{5,12};
              //3 使用test方法验证
              if (!usernamePatt.test(usernameText)) {
                  //4 提示用户结果
                  $("span.errorMsg").text("用户名不合法!");
                  return false;
              }
```

```
// 验证密码: 必须由字母, 数字下划线组成, 并且长度为5到12位
                                           //1 获取用户名输入框里的内容
                                          var passwordText = $("#password").val();
                                           //2 创建正则表达式对象
                                          var passwordPatt = /^{w{5,12}};
                                           //3 使用test方法验证
                                           if (!passwordPatt.test(passwordText)) {
                                                     //4 提示用户结果
                                                     $("span.errorMsg").text("密码不合法!");
                                                    return false;
                                          }
                                           // 验证确认密码: 和密码相同
                                          //1 获取确认密码内容
                                          var repwdText = $("#repwd").val();
                                           //2 和密码相比较
                                          if (repwdText != passwordText) {
                                                     //3 提示用户
                                                     $("span.errorMsg").text("确认密码和密码不一致!");
                                                   return false;
                                          }
                                           // 邮箱验证: xxxxx@xxx.com
                                          //1 获取邮箱里的内容
                                          var emailText = $("#email").val();
                                          //2 创建正则表达式对象
                                          var emailPatt = /^{[a-z]d} + ([a-z]d] + ([da-z](-[da-z])) + ([da
(\.\{1,2\}[a-z]+)+$/;
                                           //3 使用test方法验证是否合法
                                           if (!emailPatt.test(emailText)) {
                                                     //4 提示用户
                                                     $("span.errorMsg").text("邮箱格式不合法!");
                                                    return false;
                                           }
                                           // 验证码: 现在只需要验证用户已输入。因为还没讲到服务器。验证码生成。
                                          var codeText = $("#code").val();
                                           //去掉验证码前后空格
                                          // alert("去空格前: ["+codeText+"]")
                                          codeText = $.trim(codeText);
                                          // alert("去空格后: ["+codeText+"]")
                                           if (codeText == null | codeText == "") {
                                                     //4 提示用户
                                                      $("span.errorMsg").text("验证码不能为空!");
```

```
return false;
                }
                // 去掉错误信息
                $("span.errorMsg").text("");
            });
       });
   </script>
    <style type="text/css">
        .login_form {
           height: 420px;
           margin-top: 25px;
       }
    </style>
</head>
<body>
<div id="login header">
   <img class="logo_img" alt="" src="static/img/logo.gif">
</div>
<div class="login_banner">
   <div id="l_content">
       <span class="login_word">欢迎注册</span>
    </div>
   <div id="content">
       <div class="login form">
            <div class="login box">
               <div class="tit">
                    <h1>注册会员</h1>
                    <span class="errorMsg">
<%--
                            <%=
request.getAttribute("errorMsg")==null?"":request.getAttribute("errorMsg")%>--
                        ${requestScope.errorMsg}
                    </span>
                </div>
                <div class="form">
                    <form action="userServlet" method="post">
                        <input type="hidden" name="action" value="regist">
                        <label>用户名称: </label>
                        <input class="itxt" type="text" placeholder="请输入用户
名"
```

```
autocomplete="off" tabindex="1" name="username"
id="username"
                            value="${requestScope.username}"/>
                        <br/>
                        <br/>
                        <label>用户密码: </label>
                        <input class="itxt" type="password" placeholder="请输入
密码"
                               autocomplete="off" tabindex="1" name="password"
id="password"/>
                        <br/>
                        <br/>
                        <label>确认密码: </label>
                        <input class="itxt" type="password" placeholder="确认密
码"
                               autocomplete="off" tabindex="1" name="repwd"
id="repwd"/>
                        <br/>
                        <br/>
                        <label>电子邮件: </label>
                        <input class="itxt" type="text" placeholder="请输入邮箱
地址"
                               autocomplete="off" tabindex="1" name="email"
id="email"
                               value="${requestScope.email}"/>
                        <br/>
                        <br/>
                        <label>验证码: </label>
                        <input class="itxt" type="text" name="code"</pre>
style="width: 150px;" id="code"/>
                        <img alt="" src="static/img/code.bmp" style="float:</pre>
right; margin-right: 40px">
                        <br/>
                        <br/>>
                        <input type="submit" value="注册" id="sub_btn"/>
                    </form>
                </div>
            </div>
       </div>
   </div>
</div>
<%-- 静态包含页脚信息 --%>
<%@ include file="/pages/common/footer.jsp"%>
</body>
</html>
```