实验二 使用JavaScript语言

**学号： 姓名：**

**【实验目的】**

1. 掌握JavaScript的基本语法。
2. 掌握JavaScript的函数与事件处理方法。
3. 熟练使用代码编辑器编写基本的JavaScript程序。
4. 熟练JavaScript与HTML和CSS协同工作的知识。
5. 熟练使用浏览器的开发者工具调试Javascript代码。
6. 了解正则表达式的使用。

**【实验内容】**

**在[实验一]中的用户**登录、用户注册与用户管理页面的基础上，添加字段验证与操作验证提示。

要求：

1、用户登录页面，验证用户名、密码、验证码是否为空；验证码是否正确（验证码暂时使用固定字符串）；通过验证后提示登录成功，并跳转到用户管理页面；

2、用户注册页面：验证每个字段是否为空；两次密码是否正确；验证码是否正确（验证码暂时使用固定字符串）；手机号码、邮箱等字段需要进行格式验证；通过验证后提示注册成功，并跳转到用户登录页面；

3、用户管理页面：对用户信息的操作弹出提示，如删除、重置密码等，弹出“确认删除?”，“确认重置密码？”等提示。

**【实验程序】**

登录：

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>学籍管理系统</title>

    <link rel="stylesheet" href="123.css" type="text/css">

    <style window.οnlοad=function(){}>

        .info{

            color: red;

            font-size: 11px;

            text-align:left;

        }

    </style>

    <script type="text/javascript" src="登录.js">

    </script>

</head>

<body

    background="1.jpg" ;="" style=" background-repeat: no-repeat;

    background-size:100% 100%;

    background-attachment:fixed;">

    <div id="topHeader">

        <h1>

            <a href="登陆界面.html"> 返回主页 </a>

        </h1>

    </div>

    <h2>

    <div id="boarder">

        <p align="left">

            登录页面

        </p>

        <p align="center">

            <div id="clock"></div>

        </p>

        <form aaction =""method="post" name="myform" >

            <table align="center" >

                <tr>

                    <td align="right">

                        用户名：

                    </td>

                    <td align="left">

                        <input name="username" type="text"  onblur="checkUsername();" >

                    </td>

                    <td align="left"><span class="info" id="usernameInfo"></span>

                </tr>

                <tr>

                    <td align="right">

                        密  码：

                    </td>

                    <td align="left">

                        <input name="password" type="password" id="PWD14" size="20" maxlength="20" onblur="checkPassword();">

                    </td>

                    <td align="left"><span class="info" id="passwordInfo"></span></td>

                </tr>

                <tr>

                    <td align="right">

                        验证码：

                    </td>

                    <td align="left">

                        <input id="imageCode" type="text"  maxlength="20" onblur="checkImageCode();">&nbsp<img src="CheckCode.gif" alt="" srcset="" height="20" width="60" align="center">

                    </td>

                    <td align="left"><span class="info" id="imageCodeInfo"></span></td>

                </tr>

                <tr>

                    <td align="right">

                        类型：

                    </td>

                    <td align="left">

                        <input name="leixing" type="radio" class ="noborder" value="学生" checked>

                        学生&nbsp;

                        <input name="leixing" type="radio" class="noborder" value="教师">

                        教师&nbsp;

                        <input name="leixing" type="radio" class="noborder" value="管理员">

                        管理员

                    </td>

                </tr>

               <tr>

                    <td align="right">

                    </td>

                    <td align="left">

                        <a href="管理界面.html"><input type="button" value="登录&raquo;" class="login-button" onclick="return checkLogin();"></a>

                        <a href="注册界面.html"><input type="button" value="注册" class="login-button"></a>

                    </td>

               </tr>

               <tr>

                   <td>

                   </td>

                   <td align="left">

                    <input type="reset" value="重新输入" class="login-button" >

                   </td>

               </tr>

            </table>

        </form>

    </div>

</h2>

</body>

</html>

管理：

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>管理员界面</title>

    <link rel="stylesheet" href="12.css" type="text/css">

    <style window.οnlοad=function(){}>

        #float {

            width: 50px;

            height: 50px;

            position:absolute;

        }

    </style>

    <script type="text/javascript" src="管理.js">

    </script>

</head>

<body

    background="12.jpg" ;="" style=" background-repeat: no-repeat;

    background-size:100% 100%;

    background-attachment:fixed;">

     <a href="http://www.baidu.com/link?url=TXDYuqzfWyrR2Ipyu\_faM\_\_Z32FcfX6Q8prArXj-hY1rTaxTii4V\_Qv9e0CHLdF5FiJA-S0Z00aK27KcwKl0Q3eZ0DE9I\_LogTy6AmwXBT0uOinUHeyHXqkGcEMb8d5RgnC\_-bN7OhWpGS7x9rQqWP8nNyn3y3J\_Y129B88CNw7QJIeDMLtKZh0y3A9wfNkC-JLwYF2VxbvvwG8leGZtwQV3GQazAj2SZGzMTCHmnbpKLXDznbAPQzSaYwwEFlv5r0du7DuSLY5GQsi4AG2UnPAKpV7qHlcyttuKKjOz6lODBeeu97tIwuigBgJOJwhbrTzqor4rIcXxyiT8Wy4xVbrHjvkeFYj8QfV9e7aF9DG"><img src="QQ图片20200921203355.jpg" id="float" /></a>

    <div id="topHeader" align="left">

        <h1>

            <a href="登陆界面.html"> 返回主页 </a>

        </h1>

    </div>

    <div  align="left" >

        <h2 >

            <div id="boarder" >

                <p align="left">

                    管理界面

                </p>

                <p align="center">

                    <div id="clock"></div>

                </p>

                <form action =""method="post" name="myform" >

                    <table  align="center" border="1">

                        <tr>

                            <td align="left">

                                用户名：

                            </td>

                            <td align="left">

                                姓名：

                            </td>

                            <td align="left">

                                手机号码：

                            </td>

                            <td align="left">

                                邮箱：

                            </td>

                            <td align="left">

                                所在单位：

                            </td>

                            <td align="left">

                            </td>

                            <td align="left">

                            </td>

                            <td align="left">

                            </td>

                        </tr>

                        <tr>

                            <td align="left">

                               zhangsan

                            </td>

                            <td align="left">

                                张三

                            </td>

                            <td align="left">

                                152XXXXXXXX

                            </td>

                            <td align="left">

                                XXXXXXXXX@xaut.edu.cn

                            </td>

                            <td align="left">

                                西安理工大学

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认修改吗?'))window.location='del.asp'">  修改</a>

                                 </div>

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认删除吗?'))window.location='del.asp'">  删除</a>

                                 </div>

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认重置密码吗?'))window.location='del.asp'"> 重置</a>

                                 </div>

                            </td>

                        </tr>

                        <tr>

                            <td align="left">

                               wangwu

                            </td>

                            <td align="left">

                                王五

                            </td>

                            <td align="left">

                                136XXXXXXXX

                            </td>

                            <td align="left">

                                XXXXXXXXX@xaut.edu.cn

                            </td>

                            <td align="left">

                                西安理工大学

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认修改吗?'))window.location='del.asp'">  修改</a>

                                 </div>

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认删除吗?'))window.location='del.asp'">  删除</a>

                                 </div>

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认重置密码吗?'))window.location='del.asp'"> 重置</a>

                                 </div>

                            </td>

                        </tr>

                        <tr>

                            <td align="left">

                               lisi

                            </td>

                            <td align="left">

                                李四

                            </td>

                            <td align="left">

                                135XXXXXXXX

                            </td>

                            <td align="left">

                                XXXXXXXXX@xaut.edu.cn

                            </td>

                            <td align="left">

                                西安理工大学

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认修改吗?'))window.location='del.asp'">  修改</a>

                                 </div>

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认删除吗?'))window.location='del.asp'">  删除</a>

                                 </div>

                            </td>

                            <td align="left">

                                <div id="tH">

                                    <a href="javascript:if(confirm('确认重置密码吗?'))window.location='del.asp'"> 重置</a>

                                 </div>

                            </td>

                        </tr>

                    </table>

                </form>

            </div>

        </h2>

    </div>

</body>

</html>

注册：

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>注册界面</title>

    <link rel="stylesheet" href="123.css" type="text/css">

    <style window.οnlοad=function(){}>

        .info{

            color: red;

            font-size: 11px;

        }

    </style>

    <script type="text/javascript" src="注册.js">

    </script>

</head>

<body

    background="10.jpg" ;="" style=" background-repeat: no-repeat;

    background-size:100% 100%;

    background-attachment:fixed;">

    <div  id="topHeader" align="center">

        <h1>

            <a href="登陆界面.html"> 返回主页 </a>

        </h1>

     </div >

   <div align="center">

     <h2 >

        <div id="boarder" >

            <p align="left">

                注册界面

            </p>

            <p align="center">

                <div id="clock"></div>

            </p>

            <form aaction =""method="post" name="myform" >

                <table align="center">

                    <tr>

                        <td align="right">

                            用户名：

                        </td>

                        <td align="left">

                            <input name="username" type="text"  onblur="checkUsername();" >

                        </td>

                        <td align="left"><span class="info" id="usernameInfo"></span>

                    </tr>

                    <tr>

                        <td align="right">

                            姓名：

                        </td>

                        <td align="left">

                            <input name="xingming" type="text" size="20" maxlength="20" onblur="checkxingming();">

                        </td>

                        <td align="left"><span class="info" id="xingmingInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                            设置密码：

                        </td>

                        <td align="left">

                            <input name="password" type="password" id="PWD14" size="20" maxlength="20" onblur="checkPassword();">

                        </td>

                        <td align="left"><span class="info" id="passwordInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                            确认密码：

                        </td>

                        <td align="left">

                            <input name="qpassword" type="password"  size="20" maxlength="20" onblur="checkqPassword();">

                        </td>

                        <td align="left"><span class="info" id="qpasswordInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                            手机号码：

                        </td>

                        <td align="left">

                            <input name="phone" type="text" size="20" maxlength="20" onblur="checkphone();">

                        </td>

                        <td align="left"><span class="info" id="phoneInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                            邮箱：

                        </td>

                        <td align="left">

                            <input name="email" type="text" id="PWD1" size="20" maxlength="20" onblur="checkemail();">

                        </td>

                        <td align="left"><span class="info" id="emailInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                           所在单位：

                        </td>

                        <td align="left">

                            <input name="danwei" type="text" id="DW1" size="20" maxlength="20" onblur="checkdanwei();">

                        </td>

                        <td align="left"><span class="info" id="danweiInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                            验证码：

                        </td>

                        <td align="left">

                            <input id="imageCode" type="text"  maxlength="20" onblur="checkImageCode();">&nbsp<img src="CheckCode (1).gif" alt="" srcset="" height="20" width="60" align="center">

                        </td>

                        <td align="left"><span class="info" id="imageCodeInfo"></span></td>

                    </tr>

                    <tr>

                        <td align="right">

                            注册类型：

                        </td>

                        <td align="left">

                            <input name="leixing" type="radio" class ="noborder" value="学生" checked>

                            学生&nbsp;

                            <input name="leixing" type="radio" class="noborder" value="教师">

                            教师&nbsp;

                            <input name="leixing" type="radio" class="noborder" value="管理员">

                            管理员

                        </td>

                    </tr>

                   <tr>

                    <td align="right">

                        <a href="登陆界面.html"><input type="button" value="确认" class="login-button" onclick="return checkLogin();"></a>

                        </td>

                        <td align="left">

                            <input type="reset" value="重新输入" class="login-button">

                        </td>

                   </tr>

                </table>

            </form>

        </div>

    </h2>

 </div >

</body>

</html>

登录.js:

window.οnlοad=function(){}

function realSysTime(clock){

    var now=new Date();         //创建Date对象

    var year=now.getFullYear(); //获取年份

    var month=now.getMonth();   //获取月份

    var date=now.getDate();     //获取日期

    var day=now.getDay();       //获取星期

    var hour=now.getHours();    //获取小时

    var minu=now.getMinutes();  //获取分钟

    var sec=now.getSeconds();   //获取秒钟

    month=month+1;

    var arr\_week=new Array("星期日","星期一","星期二","星期三","星期四","星期五","星期六");

    var week=arr\_week[day];     //获取中文的星期

    var time=year+"年"+month+"月"+date+"日 "+week+" "+hour+":"+minu+":"+sec;   //组合系统时间

    clock.innerHTML=time;   //显示系统时间

}

window.onload=function(){

    window.setInterval("realSysTime(clock)",1000);  //实时获取并显示系统时间

}

function checkUsername(){

    var username= myform.username;

    var usernameInfo = document.getElementById("usernameInfo");

    if(username.value == "") {

        usernameInfo.innerHTML="请输入用户名";

        usernameInfo.display = "block";

        username.focus();

        return false;

    } else {

        usernameInfo.innerHTML = "";

        usernameInfo.display = "none";

        return true;

    }

}

function checkPassword(){

    var password= myform.password;

    var passwordInfo = document.getElementById("passwordInfo");

    if(password.value == "") {

        passwordInfo.innerHTML="请输入密码";

        passwordInfo.display = "block";

        password.focus();

        return false;

    } else {

        passwordInfo.innerHTML = "";

        passwordInfo.display = "none";

        return true;

    }

}

function checkImageCode(){

    var imageCode= myform.imageCode;

    var imageCodeInfo = document.getElementById("imageCodeInfo");

    if(imageCode.value == "") {

        imageCodeInfo.innerHTML="请输入验证码";

        imageCodeInfo.display = "block";

        imageCode.focus();

        return false;

    } else if (imageCode.value !="110y"){

        imageCodeInfo.innerHTML = "验证码错误";

        imageCodeInfo.display = "block";

        imageCode.focus();

        return false;

    }else {

        imageCodeInfo.innerHTML = "";

        imageCodeInfo.display = "none";

        return true;

    }

}

function checkLogin(){

    if(checkUsername() && checkPassword() && checkImageCode()){

          alert('登录成功');

        return true;

    }

    return false;

}

管理.js:

function del\_sure(){

    var gnl=confirm("你真的确定要删除吗?");

    if (gnl==true){

    return true;

    }

    else{

    return false;

    }

    }

    window.onload = function(){

        var float=document.getElementById('float');

        var stepx=2;

        var stepy=2;

        var x=0;

        var y=0;

        function move(){

            if(document.documentElement.clientWidth - float.offsetWidth < x || x < 0){

                stepx=-stepx;

            }

            if(document.documentElement.clientHeight - float.offsetHeight < y || y < 0){

                stepy=-stepy;

            }

            x = float.offsetLeft+stepx;

            y = float.offsetTop+stepy;

            float.style.left = x + 'px';

            float.style.top = y + 'px';

        }

        var timer = setInterval(move, 100);

        float.onmouseover = function(){

            clearInterval(timer);

        }

        float.onmouseout = function(){

            timer = setInterval(move, 100);

        }

    }

注册.js:

window.οnlοad=function(){}

function realSysTime(clock){

    var now=new Date();         //创建Date对象

    var year=now.getFullYear(); //获取年份

    var month=now.getMonth();   //获取月份

    var date=now.getDate();     //获取日期

    var day=now.getDay();       //获取星期

    var hour=now.getHours();    //获取小时

    var minu=now.getMinutes();  //获取分钟

    var sec=now.getSeconds();   //获取秒钟

    month=month+1;

    var arr\_week=new Array("星期日","星期一","星期二","星期三","星期四","星期五","星期六");

    var week=arr\_week[day];     //获取中文的星期

    var time=year+"年"+month+"月"+date+"日 "+week+" "+hour+":"+minu+":"+sec;   //组合系统时间

    clock.innerHTML=time;   //显示系统时间

}

window.onload=function(){

    window.setInterval("realSysTime(clock)",1000);  //实时获取并显示系统时间

}

function checkUsername(){

    var username= myform.username;

    var usernameInfo = document.getElementById("usernameInfo");

    if(username.value == "") {

        usernameInfo.innerHTML="请输入用户名";

        usernameInfo.display = "block";

        username.focus();

        return false;

    } else {

        usernameInfo.innerHTML = "";

        usernameInfo.display = "none";

        return true;

    }

}

function checkxingming(){

    var xingming= myform.xingming;

    var xingmingInfo = document.getElementById("xingmingInfo");

    if(xingming.value == "") {

        xingmingInfo.innerHTML="请输入姓名";

        xingmingInfo.display = "block";

        xingming.focus();

        return false;

    } else {

        xingmingInfo.innerHTML = "";

        xingmingInfo.display = "none";

        return true;

    }

}

function checkPassword(){

    var password= myform.password;

    var passwordInfo = document.getElementById("passwordInfo");

    if(password.value == "") {

        passwordInfo.innerHTML="请输入密码";

        passwordInfo.display = "block";

        password.focus();

        return false;

    } else {

        passwordInfo.innerHTML = "";

        passwordInfo.display = "none";

        return true;

    }

}

function checkqPassword(){

    var qpassword= myform.qpassword;

    var password= myform.password;

    var qpasswordInfo = document.getElementById("qpasswordInfo");

    if(qpassword.value == "") {

        qpasswordInfo.innerHTML="请确认密码";

        qpasswordInfo.display = "block";

        qpassword.focus();

        return false;

    } else if(qpassword.value != password.value)

    {

        qpasswordInfo.innerHTML="两次密码不同";

        qpasswordInfo.display = "block";

        qpassword.focus();

        return false;

    }

    else {

        qpasswordInfo.innerHTML = "";

        qpasswordInfo.display = "none";

        return true;

    }

}

function checkphone(){

    var phone= myform.phone;

    var phoneInfo = document.getElementById("phoneInfo");

    if(phone.value == "") {

        phoneInfo.innerHTML="请输入手机号";

        phoneInfo.display = "block";

        phone.focus();

        return false;

    } else if(phone.value<=10000000000 || phone.value>=200000000000){

        phoneInfo.innerHTML="手机号错误";

        phoneInfo.display = "block";

        phone.focus();

        return false;

    }

    else {

        phoneInfo.innerHTML = "";

        phoneInfo.display = "none";

        return true;

    }

}

function checkemail(){

    var email= myform.email;

    var emailInfo = document.getElementById("emailInfo");

    var myReg=/^[a-zA-Z0-9\_-]+@([a-zA-Z0-9]+\.)+(com|cn|net|org)$/;

    if(email.value == "") {

        emailInfo.innerHTML="请输入邮箱";

        emailInfo.display = "block";

        email.focus();

        return false;

    } else if(!myReg.test(email.value)){

        emailInfo.innerHTML="邮箱格式错误";

        emailInfo.display = "block";

        email.focus();

        return false;

    　　}

    else {

        emailInfo.innerHTML = "";

        emailInfo.display = "none";

        return true;

    }

}

function checkdanwei(){

    var danwei= myform.danwei;

    var danweiInfo = document.getElementById("danweiInfo");

    if(danwei.value == "") {

        danweiInfo.innerHTML="请输入单位";

        danweiInfo.display = "block";

        danwei.focus();

        return false;

    } else {

        danweiInfo.innerHTML = "";

        danweiInfo.display = "none";

        return true;

    }

}

function checkImageCode(){

    var imageCode= myform.imageCode;

    var imageCodeInfo = document.getElementById("imageCodeInfo");

    if(imageCode.value == "") {

        imageCodeInfo.innerHTML="请输入验证码";

        imageCodeInfo.display = "block";

        imageCode.focus();

        return false;

    } else if (imageCode.value !="xafn"){

        imageCodeInfo.innerHTML = "验证码错误";

        imageCodeInfo.display = "block";

        imageCode.focus();

        return false;

    }else {

        imageCodeInfo.innerHTML = "";

        imageCodeInfo.display = "none";

        return true;

    }

}

function checkLogin(){

    if(checkUsername() && checkPassword() && checkImageCode()){

          alert('注册成功');

        return true;

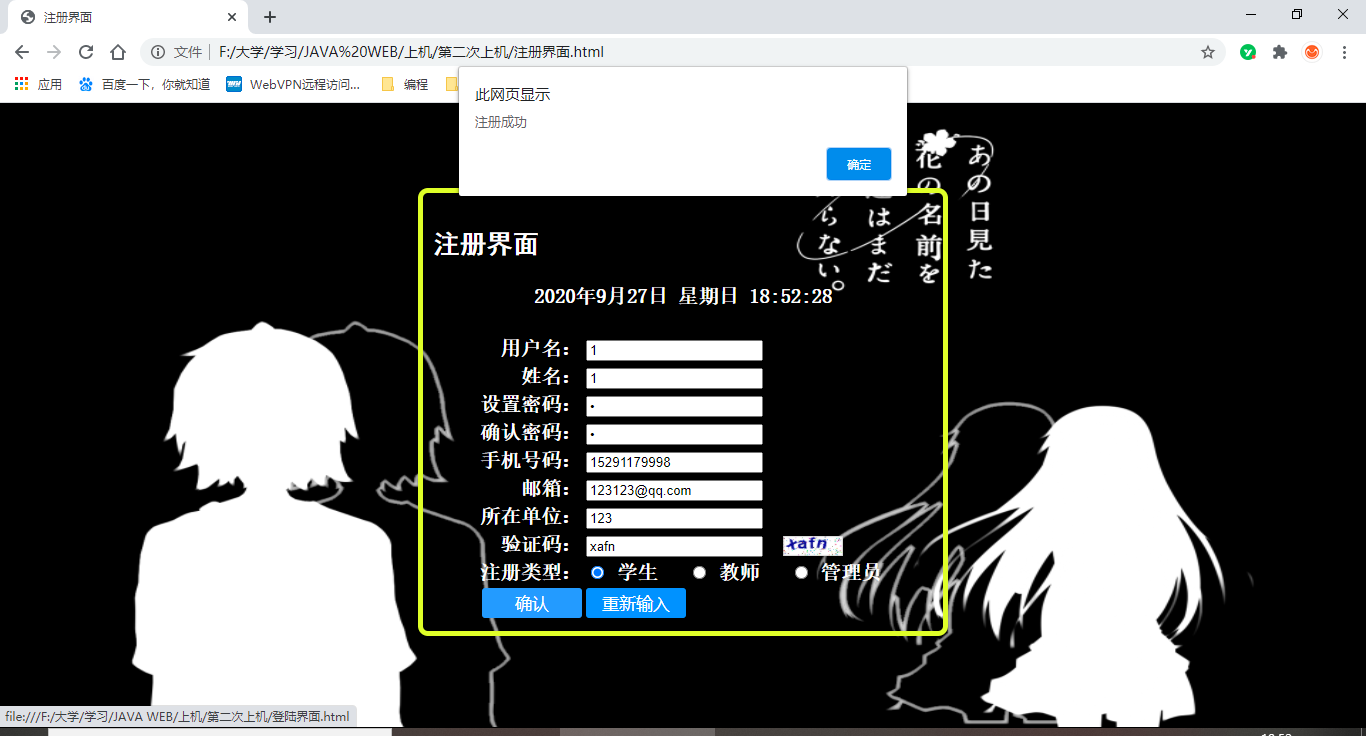
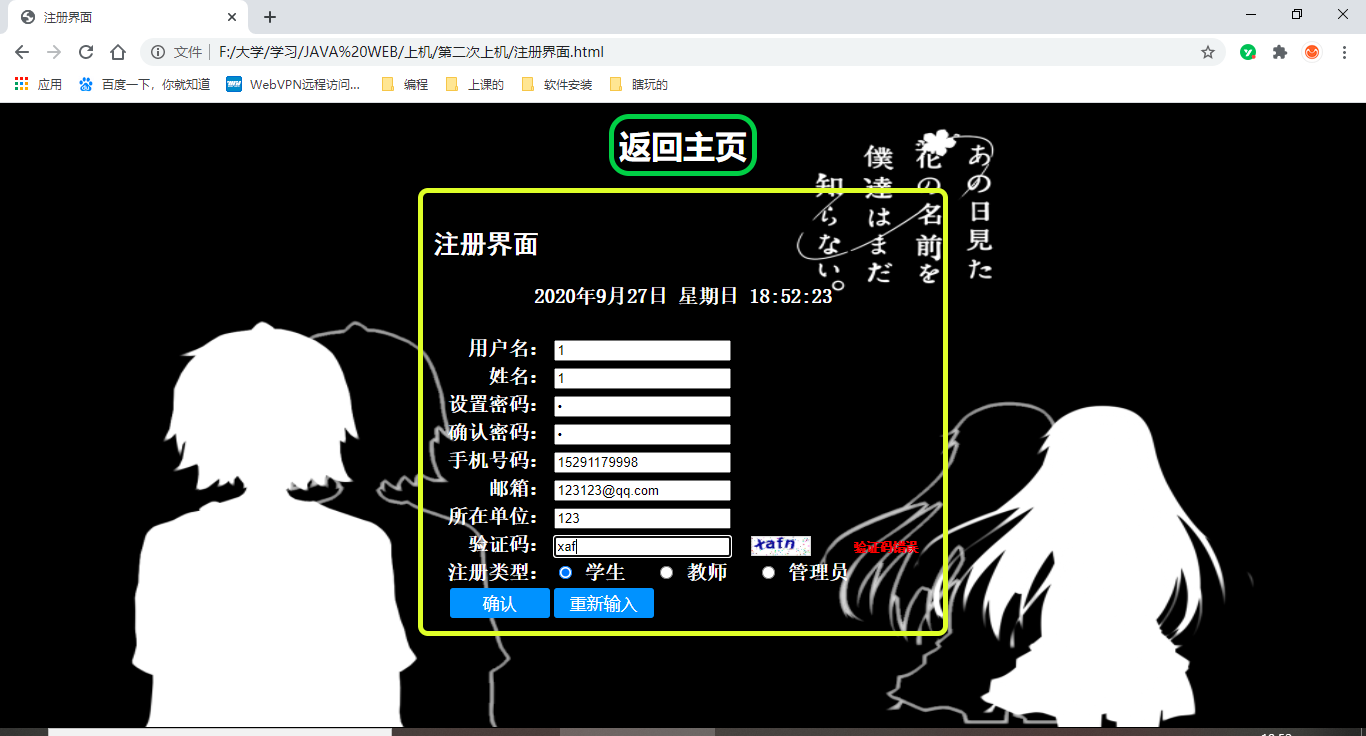
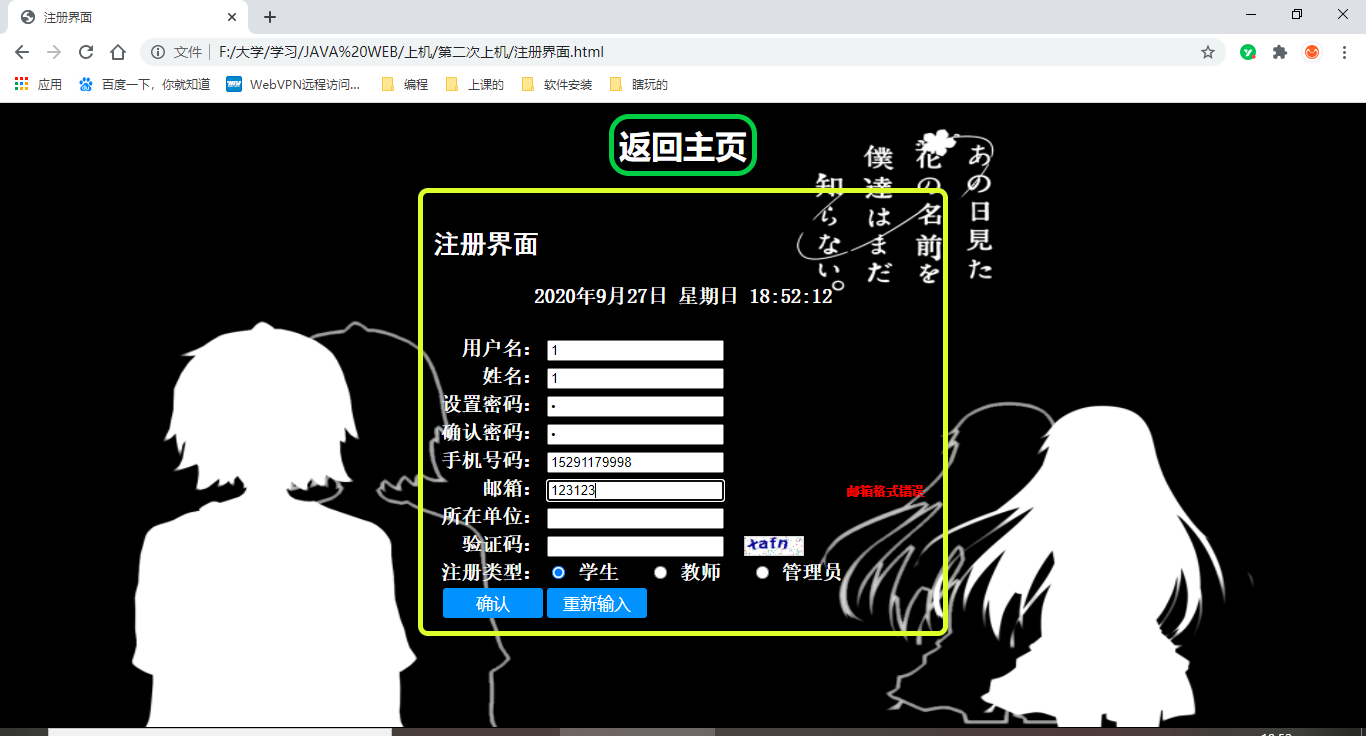
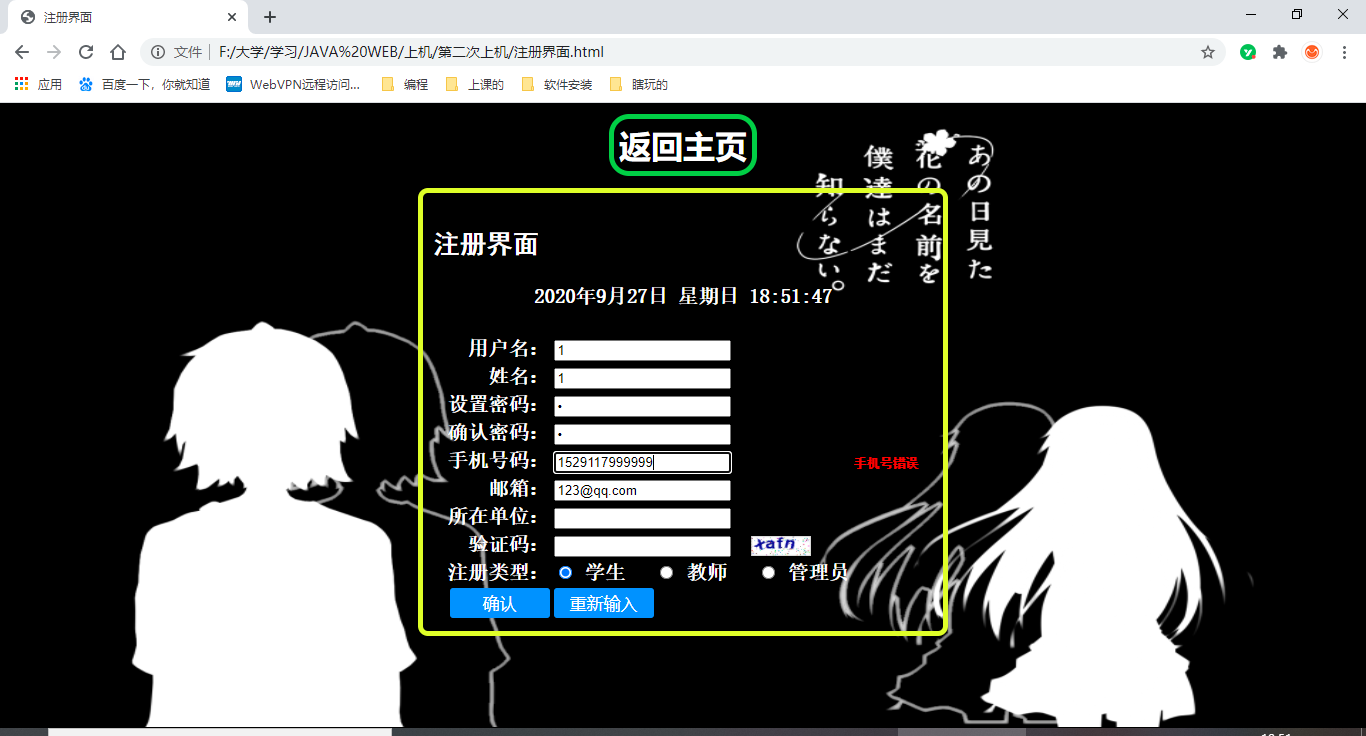
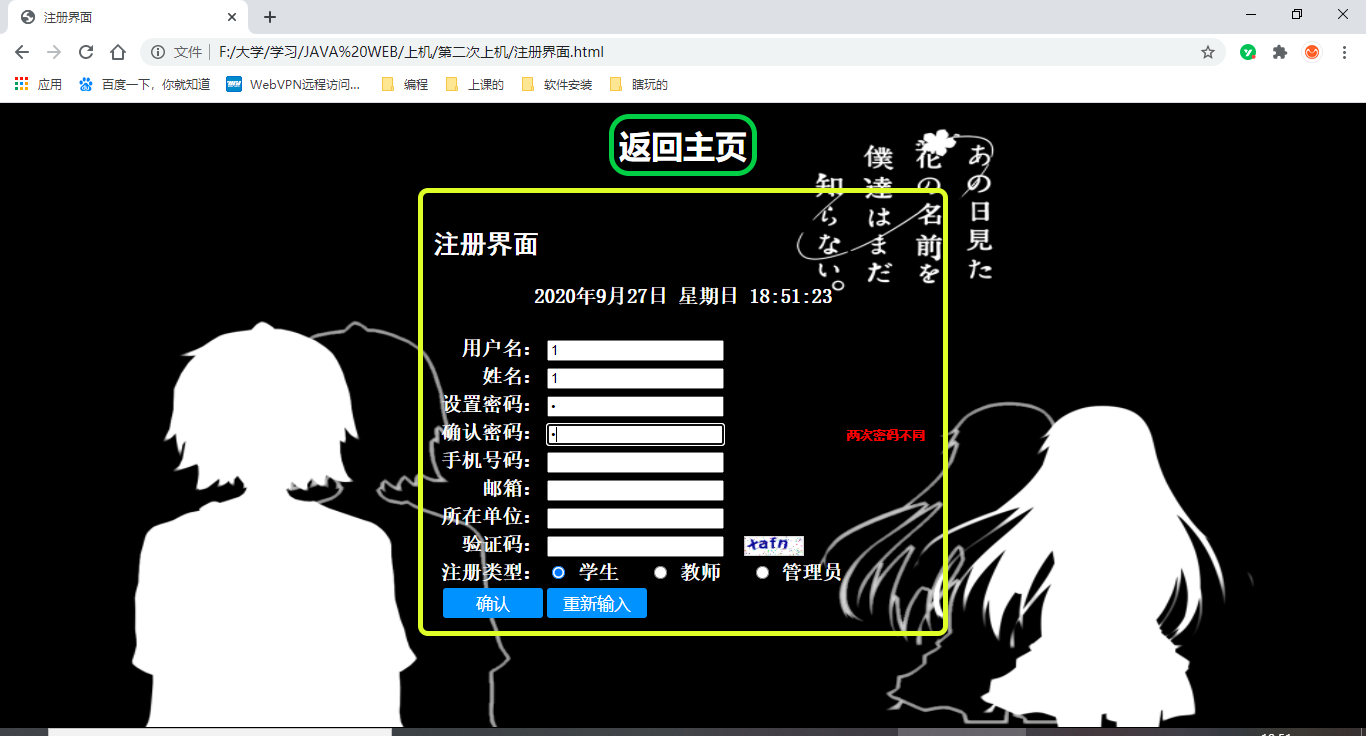
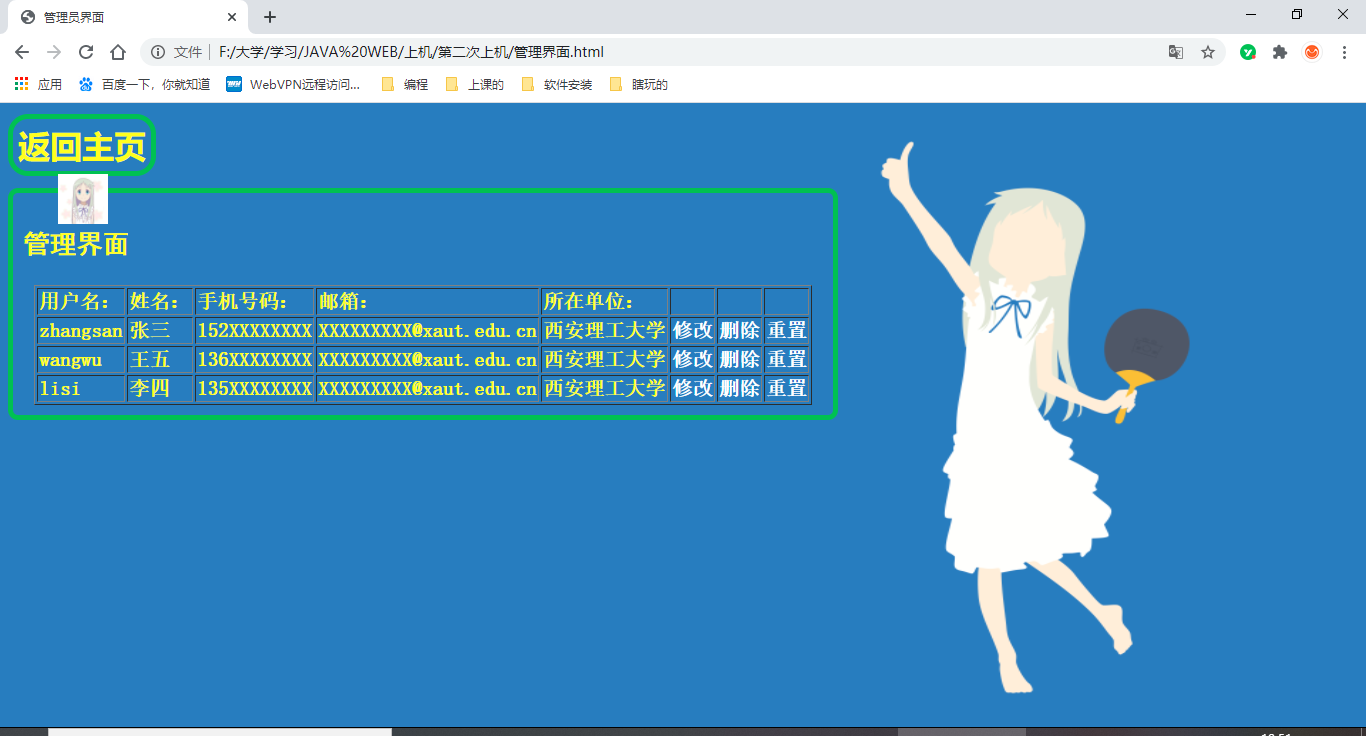
    }

    return false;

}

**【实验截图】**



**【实验心得】**

通过本次实验，掌握了html中js程序的基本操作，掌握JavaScript的基本语法。掌握JavaScript的函数与事件处理方法。并能够在谷歌浏览器中调试代码。在本次实验中遇到了相关正则表达式的问题可以通过论坛以及询问同学自主解决问题。通过老师给出的实例代码实现图片的漂浮，这是课本之外的收获。