**Java Web开发**

**实验一**

**作业报告**

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| --- | --- |
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| 完 成 时 间 | 2018年3月-12号 |

# 实验题目

1. 新建项目，练习教材上相关例子Hello.java文件，P29。并练习如何在Tomcat服务器上发布该文件
2. HelloServlet文件内容
3. 请分别用注释法和文件配置法（web.xml）来完成对HelloServlet文件的发布。

注释法访问的地址是 <http://127.0.0.1:8080/项目工程名/test2/hello.view>（请注意要根据题目要求修改代码中的注释内容）文件配置法的地址是<http://127.0.0.1:8080/项目工程名/test2/hello.do>

1. 请编写WelcomeYou.java文件，代码内容如下图，
   1. 图中第25行是何意思？
   2. 编写好之后请用如下两个地址来分别访问该文件：

http://127.0.0.1:8080/项目工程名/test2/welcome?user=‘李华’

http://127.0.0.1:8080/项目工程名/test2/welcome?user=‘Lihua’

记录下浏览器的显示内容，并分析其原因。

1. 请编写程序，完成以下功能：
2. 一个邮箱注册表单register.html文件，具体见图。
3. 自行编写两个html文件，一个success.jsp成功页面，一个fail.jsp失败页面。
4. 点击注册按钮后，跳转到成功页面success.jsp。
5. 尝试：能否在成功页面显示该用户的昵称，邮箱名称？比如“开心，恭喜你！你的happyToday@163.com”
6. 注意注册页面的表单应当提交什么请求方式

如果下一步，我还希望能把失败页面加上去，怎么办？

# 分析与设计

第25行的意思是从地址栏中获得user的参数

* 1. 请用如下两个地址来分别访问该文件：

http://127.0.0.1:8080/项目工程名/test2/welcome?user=‘李华’

http://127.0.0.1:8080/项目工程名/test2/welcome?user=‘Lihua’结果能将参数传进去，用new String再用getByte把数据转化成utf-8。

# 关键源码（部分）

第一题

**public** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

response.setContentType("text/html;charset=utf-8");

PrintWriter out = response.getWriter();

out.println("<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.01 Transitional//EN\">");

out.println("<HTML>");

out.println(" <HEAD><TITLE>A Servlet</TITLE></HEAD>");

out.println(" <BODY>");

out.print("<h2>您好，欢迎各位软件工程师专业的同学。<br><br>Hello,you");

// out.print();

// out.println(", using the GET method");

out.println(" </BODY>");

out.println("</HTML>");

out.flush();

out.close();

}

第二题

**protected** **void** doGet(HttpServletRequest request,HttpServletResponse response) **throws** ServletException,IOException{

response.setContentType("text/html;charset = UTF-8");

PrintWriter out = response.getWriter();

String user = **new** String(request.getParameter("user").getBytes("iso8859-1"),"UTF-8");

String welcomeInfo="Welcome You "+user+"同学!";

out.println("<html>");

out.println("<head>");

out.println("<title>欢迎页面</title>");

out.println("</head>");

out.println("<body>");

out.println(welcomeInfo);

out.println("</body>");

out.println("</html>");

out.flush();

out.close();

}

第三题

注册----------------------------------------------

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title></title>

</head>

<body background=*"imge/c.jpg"* >

<div id=*"comtainer"* style="width:*1200px*;height:*400px*"></div>

<form action=*"register.do"* method=*"post"* name=*"form"*>

<div style="height:*200px*;width:*750px*;float:*left*"></div>

<div style="height:*200px*;width:*100px*;float:*left*">

邮箱:<br>账号:<br> 密码:<br> 确认密码:

</div>

<div style="height:*150px*;width:*100px*;float:*left*;">

<input type=*"text"* name=*"email"* size=*"25"* maxlength=*"16"*><br>

<input type=*"text"* name=*"username"* size=*"25"* maxlength=*"16"*><br>

<input type=*"password"* name=*"password"* size=*"25"* maxlength=*"16"*><br>

<input type=*"password"* name=*"confirmedPasswd"* size=*"25"* maxlength=*"16"*>

<input type=*"submit"* value=*"注册"*>

</div>

</form>

</body>

</html>

判断的区域----------------------------------------

package com\_2;

import java.io.BufferedWriter;

import java.io.File;

import java.io.FileWriter;

import java.io.IOException;

import java.util.ArrayList;

import java.util.List;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/register.do")

public class Register extends HttpServlet {

private static final long serialVersionUID = 1L;

private final String USERS = "E:/users";

private final String SUCCESS\_VIEW = "success.view";

private final String ERROR\_VIEW = "error.view";

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

}

public void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

String email = request.getParameter("email");

String username = request.getParameter("username");

String password = request.getParameter("password");

String confirmedPasswd = request.getParameter("confirmedPasswd");

/\*

\* String email = new String((request.getParameter("email")).getByte("iso-8859-1"),"utf-8");

\* String username = request.getParameter("username");

\* String password = request.getParameter("password");

\* String confirmedPasswd = request.getParameter("confirmedPasswd");

\*

\*/

List<String> errors = new ArrayList<String>();

if (isInvalidUsername(username)) {

errors.add("用户名已存在或用户名为空");

}

if (isInvalidEmail(email)) {

errors.add("未填写邮箱或邮箱格式错误");

}

if (isInvalidPassword(password, confirmedPasswd)) {

errors.add("请确认密码符合格式并确认密码");

}

String resultPage = ERROR\_VIEW;

if (!errors.isEmpty()) {

request.setAttribute("errors", errors);

} else {

resultPage = SUCCESS\_VIEW;

createUserData(email, username, password);

}

request.getRequestDispatcher(resultPage).forward(request, response);

}

private boolean isInvalidEmail(String email) {

if (email == null || !email.matches("^[\_a-z0-9-]+([.]"+"[\_a-z0-9-]+)\*@[\_a-z0-9-]+([.][\_a-z0-9-]+)\*$"))

return true;

else

return false;

}

private boolean isInvalidUsername(String username) {

for (String file : new File(USERS).list()) {

if (file.equals(username)) {

return true;

}

}

if (username.equals(null))

return true;

return false;

}

private boolean isInvalidPassword(String password, String confirmedPasswd) {

return password == null || password.length() < 6

|| password.length() > 16 || !password.equals(confirmedPasswd);

}

private void createUserData(String email, String username, String password)

throws IOException {

File userhome = new File(USERS + "/" + username);

userhome.mkdir();

BufferedWriter writer = new BufferedWriter(new FileWriter(userhome

+ "/profile"));

writer.write(email + "\t" + password );

writer.close();

}

}

成功---------------------------------------------------

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

out.println("<!DOCTYPE HTML PUBLIC "

+ "'-//W3C//DTD HTML 4.01 Transitional//E'>");

out.println("<html>");

out.println("<head>");

out.println("<meta http-equiv='Content-Type' "

+ "content='text/html; charset=UTF-8'>");

out.println("<title>新增会员成功</title>");

out.println("</head>");

out.println("<body background='imge/c.jpg'>");

out.println("<h1>新增会员成功</h1>");

out.println("<u1 style='color:rgb(255,0,0);'>");

out.println("</u1>");

out.println("<h1>会员" + request.getParameter("username") + "注册成功</h1>");

out.println("<a href='login.jsp'>返回首页登录</a>");

out.println("</body>");

out.println("</html>");

out.close();

注册失败-----------------------------------------------------

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

out.println("<!DOCTYPE HTML PUBLIC "

+ "'-//W3C//DTD HTML 4.01 Transitional//E'>");

out.println("<html>");

out.println("<head>");

out.println("<meta http-equiv='Content-Type' "

+ "content='text/html; charset=UTF-8'>");

out.println("<title>新增会员失败</title>");

out.println("</head>");

out.println("<body background='img/c.jpg'>");

out.println("<h1>新增会员失败</h1>");

out.println("<u1 style='color:rgb(255,0,0);'>");

@SuppressWarnings("unchecked")

List<String> errors = (List<String>) request.getAttribute("errors");

**for** (String error : errors) {

out.println("<li>" + error + "</li>");

}

out.println("</u1>");

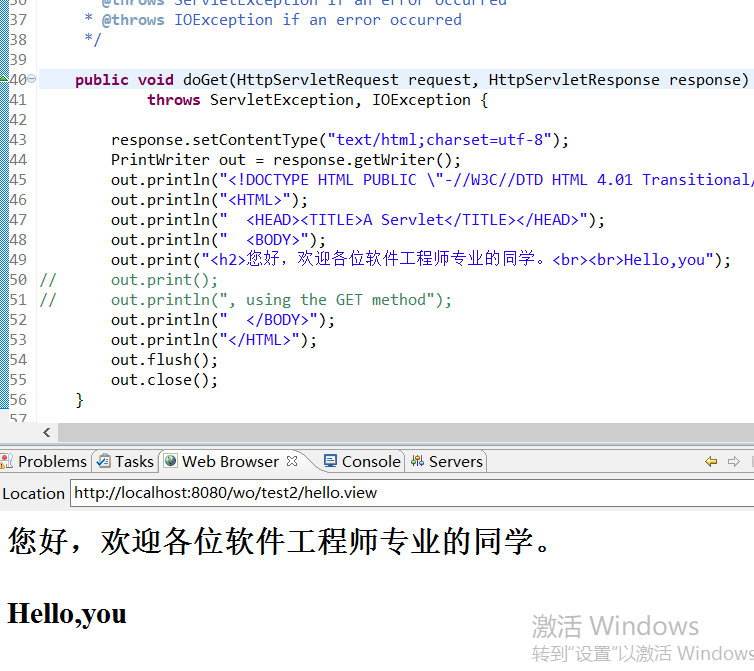
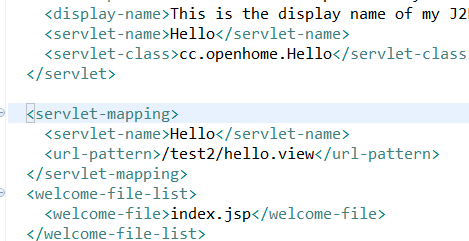
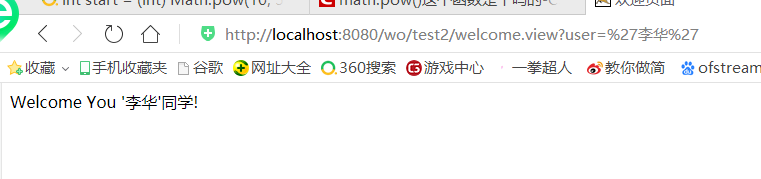
out.println("<a href='register.jsp'>返回注册页面</a>");

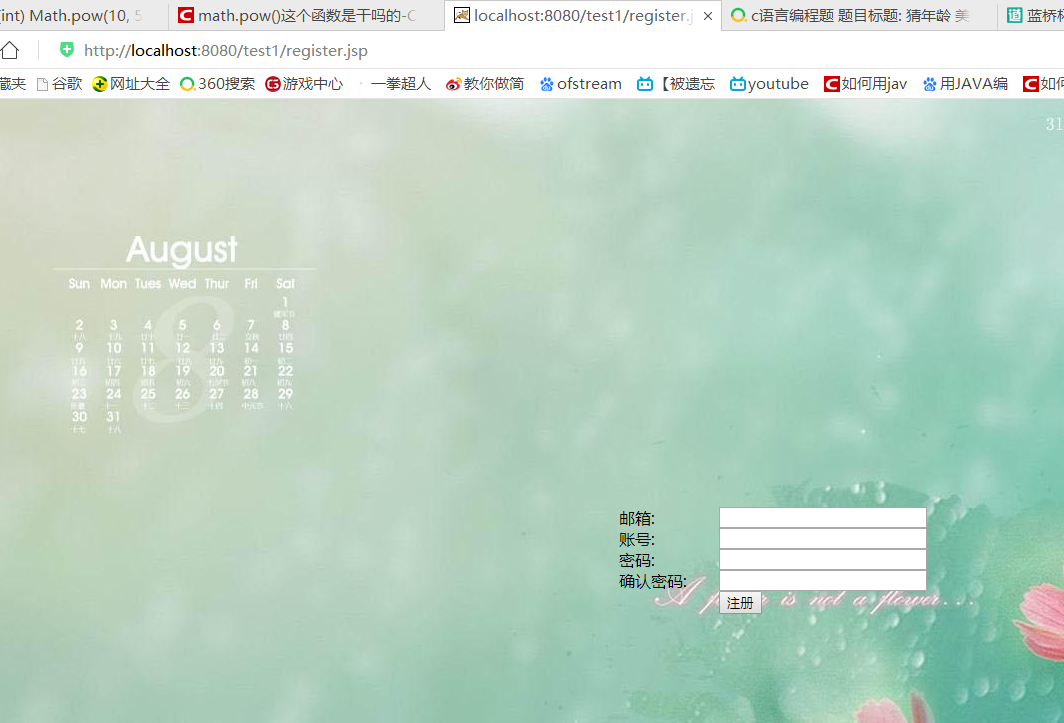
out.println("</body>");

out.println("</html>");

out.close();

# 运行效果图



# 收获与问题

学会了如何传送参数跟页面之间的跳转