Java Web 实验二

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



1. 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>

实现代码：

package cc.openhome;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import java.io.PrintWriter;

/\*\*

\* Servlet implementation class HelloServlet

\*/

@WebServlet("/hello.view")

public class HelloServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public HelloServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

response.setContentType("text/heml;charset=GB2312");

PrintWriter out=response.getWriter();

out.println("<html>");

out.println("<head>");

out.println("<title>Hello Servlet</title>");

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

out.println("<body>");

out.println("<h2>您好，欢迎各位软件工程专业的同学，<br><br>Hello,you guys</h2>");

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

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

// TODO Auto-generated method stub

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

doGet(request,response);

// TODO Auto-generated method stub

}

}

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。

实现代码：

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
7. 如果下一步，我还希望能把失败页面加上去，怎么办？

实现代码：

Myregister.java：

package cc.openhome;

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;

import javax.swing.text.html.HTMLDocument.HTMLReader.IsindexAction;

/\*\*

\* Servlet implementation class Register

\*/

@WebServlet("/Myregister.do")

public class Myregister extends HttpServlet {

private static final long serialVersionUID = 1L;

private static final String ERROR\_VIEW = "fail.view";

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

private static final String USERS ="04171403@163.com" ;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Myregister() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see Servlet#destroy()

\*/

public void destroy() {

// TODO Auto-generated method stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

response.setContentType("text/html");

response.setCharacterEncoding("UTF-8");

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

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

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

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

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

if(isInvalidEmail(email)){

errors.add("");

}

if(isInvalidUsername(username)){

errors.add("");

}

if(isInvalidPassword(password,confirmedPasswd)){

errors.add("");

}

String resultPage= ERROR\_VIEW;

if(!errors.isEmpty()){

request.setAttribute("errors", errors);

}else{

resultPage = SUCCESS\_VIEW;

creatUserData(email,username,password);

}

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

request.getRequestDispatcher("/register.jsp").forward(request, response);

}

private void creatUserData(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();

}

private boolean isInvalidPassword(String password, String confirmedPasswd) {

// TODO Auto-generated method stub

return false;

}

private boolean isInvalidUsername(String username) {

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

if(file.equals(username)){

return true;

}

}

return false;

}

private boolean isInvalidEmail(String email) {

return false;

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

doGet(request, response);

}

}

Error.java：

package cc.openhome;

import java.io.IOException;

import java.io.PrintWriter;

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;

/\*\*

\* Servlet implementation class Fail

\*/

@WebServlet("/error.view")

public class Error extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Error() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see Servlet#destroy()

\*/

public void destroy() {

// TODO Auto-generated method stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

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

PrintWriter out = response.getWriter();

out.println("<html>");

out.println("<head>");

out.println("<meta content='text/html; charset=UTF-8'>");

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

out.println("<body>");

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

out.println("<a href = 'register.html'>Error</a>");

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

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

doGet(request, response);

}

}

Success.java：

package cc.openhome;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class Success

\*/

@WebServlet("/success.view")

public class Success extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Success() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see Servlet#destroy()

\*/

public void destroy() {

// TODO Auto-generated method stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

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

PrintWriter out = response.getWriter();

out.println("<html>");

out.println("<body>");

out.println("<h1>" + request.getParameter(("username") + "用户名</h1>"));

out.println("<a href = 'index.html'>Register success</a>");

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

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

request.getRequestDispatcher("/index.jsp").forward(request, response);

doGet(request, response);

}

}