[**http://tomcat.apache.org/tomcat-7.0-doc/servletapi/**](http://tomcat.apache.org/tomcat-7.0-doc/servletapi/)

**程序2.1 login.jsp**

<%@ page contentType=*"text/html; charset=GB2312"*

pageEncoding=*"GB2312"*%>

<html>

<head><title>登录页面</title></head>

<body>

<form action=*"login.do"* method=*"post"*>

<table>

<tr><td>用户名：</td>

<td><input type=*"text"* name=*"username"*/></td>

</tr>

<tr><td>密&nbsp;&nbsp;码：</td>

<td><input type=*"password"* name=*"password"*/></td>

</tr>

<tr><td><input type=*"submit"* value=*"登录"*/></td>

<td><input type=*"reset"* value=*"取消"*/></td>

</tr>

</table>

</form>

</body>

</html>

**程序2.2 LoginServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.WebServlet;

@WebServlet(name="LoginServlet",urlPatterns={"/login.do"})

**public** **class** LoginServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doPost(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

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

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

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

PrintWriter out = response.getWriter();

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

**if**("admin".equals(username)&& "admin".equals(password)){

out.println("登录成功！欢迎您， "+username);

}**else**{

out.println("对不起！您的用户名或密码不正确．");

}

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

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

doPost(request, response);

}

}

**程序2.3 ClientInfoServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.WebServlet;

@WebServlet("/ClientInfoServlet")

**public** **class** ClientInfoServlet **extends** HttpServlet

{ **private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<title>获取客户端信息</title></head>");

out.println("<body>");

out.println("<h4>客户端信息：</h4>");

out.println("<table border=’1’>");

out.println("<tr><td>客户主机名</td>");

out.println("<td>" + request.getRemoteHost() + "</td></tr>");

out.println("<tr><td>客户IP地址</td>");

out.println("<td>" + request.getRemoteAddr() + "</td></tr>");

out.println("<tr><td>端口</td>");

out.println("<td>" + request.getRemotePort() + "</td></tr>");

out.println("<tr><td>请求方法</td>");

out.println("<td>" + request.getMethod() + "</td></tr>");

out.println("<tr><td>请求协议</td>");

out.println("<td>" + request.getProtocol() + "</td></tr>");

out.println("<tr><td>请求URI</td>");

out.println("<td>" + request.getRequestURI() + "</td></tr>");

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

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

}

**public** **void** doPost(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

doGet(request, response);

}

}

**程序2.4 ShowHeadersServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** java.util.Enumeration;

**import** javax.servlet.annotation.WebServlet;

@WebServlet("/ShowHeaders")

**public** **class** ShowHeadersServlet **extends** HttpServlet{

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException{

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

PrintWriter out = response.getWriter();

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

out.println("<head><title>请求头信息</title></head>");

out.println("服务器收到的请求头信息<p>");

out.println(request.getMethod()+" "

+request.getRequestURI()+" "

+request.getQueryString()+" "

+request.getProtocol()+"<br>");

Enumeration<String> headers = request.getHeaderNames();

**while**(headers.hasMoreElements()){

String header = (String) headers.nextElement();

String value = request.getHeader(header);

out.println(header+" = "+value+"<br>");

}

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

}

}

**程序2.5 LoginServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.WebServlet;

@WebServlet(name="LoginServlet",urlPatterns={"/login.do"})

**public** **class** LoginServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doPost(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

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

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

// 用户名和口令均为admin，认为登录成功

**if**(username.equals("admin")&&password.equals("admin")){

request.setAttribute("username", username);

RequestDispatcher rd =

request.getRequestDispatcher("/welcome.jsp");

rd.forward(request, response);

}**else**{

RequestDispatcher rd =

request.getRequestDispatcher("/login.jsp");

rd.forward(request, response);

}

}

}

**程序2.6 welcome.jsp**

<html>

<body>

<h4>Your are welcome!</h4>

<%=request.getAttribute("username")%>

<%-- ${username} --%>

</body>

</html>

**程序2.7 questions.jsp**

<%@ page contentType=*"text/html; charset=GB2312"*

pageEncoding=*"GB2312"*%>

<html>

<head><title>简单测试</title></head>

<body>

<p>请回答下面的问题：</p>

<form action=*"simpletest.do"* method=*"post"*>

<p> 1. Sun公司于2010年被Oracle公司收购。

<input type=*"radio"* name=*"quest1"* value=*"1"*> 正确

<input type=*"radio"* name=*"quest1"* value=*"2"*> 错误<br>

<p> 2. Windows操作系统是哪个公司的产品？

<input type=*"radio"* name=*"quest2"* value=*"1"*> Apple公司

<input type=*"radio"* name=*"quest2"* value=*"2"*> IBM公司

<input type=*"radio"* name=*"quest2"* value=*"3"*> Microsoft公司<br>

<p> 3.下面的程序设计语言，哪些是面向对象的？

<input type=*"checkbox"* name=*"quest3"* value=*"1"*> Java语言

<input type=*"checkbox"* name=*"quest3"* value=*"2"*> C语言

<input type=*"checkbox"* name=*"quest3"* value=*"3"*> C++语言<br>

<p> 4.编写Servlet程序应继承哪个类？

<input type=*"text"* name=*"quest4"* size=*"30"*><br>

<p>交卷请点击:<input type=*"submit"* value=*"交卷"*>

重答请点击: <input type=*"reset"* value=*"重答"*>

</form>

</body>

</html>

**程序2.8 SimpleTestServlet.java**

**package** com.demo;

**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;

@WebServlet(name="SimpleTestServlet",urlPatterns={"/simpletest.do"})

**public** **class** SimpleTestServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doPost(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

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

PrintWriter out = response.getWriter();

String quest1 = request.getParameter("quest1");

String quest2 = request.getParameter("quest2");

String[] quest3 = request.getParameterValues("quest3");

String quest4 = request.getParameter("quest4").trim();

**int** score = 0;

**if**(quest1!=**null** && quest1.equals("1")){

score = score+25; // 答对一道题加25分

}

**if**(quest2!=**null**&& quest2.equals("3")){

score = score+25;

}

**if**(quest3!=**null**&&quest3.length==2&&quest3[0].equals("1")&& quest3[1].equals("3")){

score = score+25;

}

**if**(quest4!=**null**&& (quest4.equals("HttpServlet")||

quest4.equals("javax.servlet.http.HttpServlet"))){

score = score+25;

}

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

out.println("<title>测试结果</title>");

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

out.println("你的成绩是："+score+"分");

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

}

}

**程序2.9 fileUpload.jsp**

<%@ page contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<html>

<head>

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

<title>上传文件</title></head>

<body>

${message}<br> **<%-- $表达式语言--%>**

<%-- <%=request.getAttribute("message", message); %> --%>

<form action=*"fileUpload.do"* enctype=*"multipart/form-data"*

method=*"post"*>

**<%--enctype 属性规定在发送到服务器之前应该如何对表单数据进行编码。--%>**

<table>

<tr> <td colspan=*"2"* align=*"center"*>文件上传</td>

</tr>

<tr><td>会员号：</td>

<td><input type=*"text"* name=*"mnumber"* size=*"30"* /></td>

</tr>

<tr> <td>文件名：</td>

<td><input type=*"file"* name=*"fileName"* size=*"30"* /></td>

</tr>

<tr>

<td align=*"right"*><input type=*"submit"* value=*"提交"* /></td>

<td align=*"left"*><input type=*"reset"* value=*"重置"*/></td>

</tr>

</table>

</form>

</body>

</html>

**程序2.10 FileUploadServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.\*;

@WebServlet(name="FileUploadServlet",urlPatterns={"/fileUpload.do"})

@MultipartConfig(location="D:\\",fileSizeThreshold=1024)

**public** **class** FileUploadServlet **extends** HttpServlet{

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doPost(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException,IOException{

// 返回Web应用程序文档根目录

String path = **this**.getServletContext().getRealPath("/");

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

Part p = request.getPart("fileName");

String message="";

**if**(p.getSize() >1024\*1024){ // 上传的文件不能超过1MB大小

p.delete();

message = "文件太大，不能上传！";

}**else**{

path = path + "\\student\\" +mnumber;

File f = **new** File(path);

**if**( !f.exists()){ // **若目录不存在，则创建目录**

f.mkdirs();

}

String h = p.getHeader("content-disposition");

// 得到文件名

String fname = h.substring(h.lastIndexOf("=") + 2, h.length() - 1);

p.write(path + "\\"+ fname);

//String fname = h.substring(h.lastIndexOf("\\") + 1, h.length() - 1);

message = "文件上传成功！";

}

request.setAttribute("message", message);

RequestDispatcher rd = request.getRequestDispatcher("/fileUpload.jsp");

rd.forward(request, response);

} }

**程序2.11 ExcelServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.WebServlet;

@WebServlet(name="ExcelServlet",urlPatterns={"/excel.do"})

**public** **class** ExcelServlet **extends** HttpServlet{

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException{

//指定页面在传输过程中使用的编码方式

response.setHeader("Content-Encoding","gb2312");

// 设置响应的内容类型

response.setContentType("application/vnd.ms-excel;charset=gb2312");

PrintWriter out = response.getWriter();

out.println("学号\t姓名\t性别\t年龄\t所在系");

out.println("95001\t李勇\t男\t20\t信息");

out.println("95002\t刘晨\t女\t19\t数学");

}

}

**补充：FileDownloadServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.\*;

@WebServlet(name="FileDownloadServlet",urlPatterns={"/filedownload.do"})

**public** **class** FileDownloadServlet **extends** HttpServlet{

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException{

response.setContentType("application/jar");

// 设置响应头，将响应内容以指定的文件名存储到客户机上

response.setHeader("Content-Disposition","attachment;filename=servlet-api.jar");

File f = **new** File("C:\\servlet-api.jar");

FileInputStream is = **new** FileInputStream(f);

ServletOutputStream os = response.getOutputStream();

**byte**[] bytearray = **new** **byte**[1024];

**int** bytesread = 0;

**while**( (bytesread = is.read(bytearray) ) != -1 ){

os.write(bytearray, 0, bytesread);

}

os.flush();

}

}

**程序2.12 ShowTimeServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** java.util.\*;

**import** java.text.SimpleDateFormat;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.WebServlet;

@WebServlet("/ShowTimeServlet")

**public** **class** ShowTimeServlet **extends** HttpServlet{

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException{

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

response.setHeader("Refresh","5");

PrintWriter out = response.getWriter();

Date date = **new** Date();

SimpleDateFormat sdf = **new** SimpleDateFormat("yyyy-MM-dd a HH:mm:ss");

String s = sdf.format(date); // 对日期对象格式化

out.println("<html>");

out.println("<body>");

out.println("<h3 align=\"center\">每5秒钟刷新一次页面</h3><p>");

out.println("<h3 align=\"center\">现在的时间是："+s+"</h3><p>");

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

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

}

}

**程序2.13 RedirectServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**import** javax.servlet.annotation.\*;

@WebServlet(name="SendRedirect",urlPatterns={"/redirect.do"})

**public** **class** RedirectServlet **extends** HttpServlet{

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** IOException,ServletException{

String userAgent = request.getHeader("User-Agent");

// 在请求对象上存储一个属性

request.setAttribute("param1", "请求作用域属性");

// 在会话对象上存储一个属性

request.getSession().setAttribute("param2", "会话作用域属性");

**if**((userAgent!=**null**)&&(userAgent.indexOf("MSIE")!=-1)){

response.sendRedirect("welcome1.jsp");

}**else**{

response.sendRedirect("http://localhost:8080/");

}

}

}

**程序2.6 welcome1.jsp**

<%@ page contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<html>

<body>

<h4>Your are welcome!</h4>

${param1}

${param2}

</body>

</html>

**程序2.14 StatusServlet.java**

**package** com.demo;

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.\*;

**import** java.io.PrintWriter;

@WebServlet("/StatusServlet")

**public** **class** StatusServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException, IOException {

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

PrintWriter out = response.getWriter();

String qq = request.getParameter("q");

**if**(qq==**null**){

out.println("没有提供请求参数。");

}**else** **if**(qq.equals("0")){

out.println(response.getStatus()+"<br>");

out.println("Hello,Guys!");

}**else** **if**(qq.equals("1")){

response.setStatus(HttpServletResponse.***SC\_FORBIDDEN***);

}**else** **if**(qq.equals("2")){

response.setStatus(HttpServletResponse.***SC\_UNAUTHORIZED***);

}**else**{

response.sendError(404,"resource cannot founddd!");

}

}

}

**程序2.15 web.xml**

<?xml version=*"1.0"* encoding=*"UTF-8"* ?>

<web-app xmlns=*"http://java.sun.com/xml/ns/javaee"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"*

version=*"2.5"*>

<display-name> Webapp Test </display-name>

<context-param>

<param-name>email</param-name>

<param-value>hacker@163.com</param-value>

</context-param>

<servlet>

<servlet-name>loginServlet</servlet-name>

<servlet-class>com.demo.LoginServlet</servlet-class>

<init-param>

<param-name>greeting</param-name>

<param-value>Good Morning</param-value>

</init-param>

<load-on-startup>2</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>loginServlet</servlet-name>

<url-pattern>/login.do</url-pattern>

</servlet-mapping>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.jsp</welcome-file>

</welcome-file-list>

<session-config>

<session-timeout>20</session-timeout>

</session-config>

</web-app>

**程序2.16 ConfigDemoServlet.java**

**package** com.demo;

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.annotation.\*;

**import** javax.servlet.http.\*;

@WebServlet(name="ConfigDemoServlet",

urlPatterns = {"/configDemo.do"},

initParams = {

@WebInitParam(name = "email", value = "hacker@163.com"),

@WebInitParam(name = "telephone", value = "8899123")

})

**public** **class** ConfigDemoServlet **extends** HttpServlet{

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

String servletName = **null**;

ServletConfig config = **null**;

String email = **null**;

String telephone = **null**;

**public** **void** init(ServletConfig config) {

**this**.config = config;

servletName = config.getServletName();

email = config.getInitParameter("email");

telephone = config.getInitParameter("telephone");

}

**public** **void** doGet(HttpServletRequest request,

HttpServletResponse response)

**throws** ServletException,IOException{

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

PrintWriter out = response.getWriter();

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

out.println("<head><title>配置对象</title></head>");

out.println("Servlet名称："+servletName+"<br>");

out.println("Email地址："+email+"<br>");

out.println("电话："+telephone);

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

}

}