**程序3.1 FileDownloadServlet.java**

**package** com.demo;

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

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

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

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

@WebServlet("/fileDownload.do")

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

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

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

HttpServletResponse response)

**throws** ServletException, IOException {

// 设置文件的内容类型

response.setContentType("image/gif");

// 设置Content-Disposition响应头，指定文件名

response.setHeader("Content-Disposition",

"attachment;filename=duke.gif");

// 获得输出流对象

OutputStream os = response.getOutputStream();

ServletContext context = getServletContext();

// 返回输入流对象

InputStream is =

context.getResourceAsStream("/files/duke.gif");

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

**int** bytesread = 0;

// 从输入流中读取1K字节，然后写到输出流中

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

// 将数据发送到客户端

os.write(bytearray, 0, bytesread);

}

os.flush();

is.close();

}

}

**程序3.2 ShowSessionServlet.java**

**package** com.demo;

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

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

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

**import** java.util.Date;

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

@WebServlet("/ShowSessionServlet")

**public** **class** ShowSessionServlet **extends** HttpServlet{

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

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

HttpServletResponse response)

**throws** ServletException, IOException {

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

// 创建或返回用户会话对象

HttpSession session = request.getSession(**true**);

String heading = **null**;

// 从会话对象中检索accessCount属性

Integer accessCount = (Integer)session.getAttribute("accessCount");

**if**(accessCount==**null**){

accessCount = **new** Integer(1);

heading = "欢迎您，首次登录该页面！";

}**else**{

heading = "欢迎您，再次访问该页面！";

accessCount = accessCount+1;

}

// 将accessCount作为属性存储到会话对象中

session.setAttribute("accessCount",accessCount);

PrintWriter out = response.getWriter();

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

out.println("<title>会话跟踪示例</title></head>");

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

out.println("<h4>"+heading

+"<a href='ShowSessionServlet'>再次访问</a>"+"</h4>");

out.println("<table border='0'>");

out.println("<tr bgcolor=\"ffad00\"><td>信息</td><td>值</td>\n");

String state = session.isNew()?"新会话":"旧会话";

out.println("<tr><td>会话状态：<td>"+state+"\n");

out.println("<tr><td>会话ID:<td>"+session.getId()+"\n");

out.println("<tr><td>创建时间:<td>");

out.println(""+**new** Date(session.getCreationTime())+"\n");

out.println("<tr><td>最近访问时间:<td>");

out.println(""+**new** Date(session.getLastAccessedTime())+"\n");

out.println("<tr><td>最大不活动时间:<td>"+

session.getMaxInactiveInterval()+"\n");

out.println("<tr><td>Cookie:<td>"+request.getHeader("Cookie")+"\n");

out.println("<tr><td>已被访问次数:<td>"+accessCount+"\n");

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

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

}

}

**程序3.3 GuessNumberServlet.java**

**package** com.demo;

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

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

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

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

@WebServlet("/GuessNumberServlet")

**public** **class** GuessNumberServlet **extends** HttpServlet{

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

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

HttpServletResponse response)

**throws** ServletException, IOException {

**int** magic = (**int**)(Math.*random*()\*101);

HttpSession session = request.getSession();

session.setAttribute("num",**new** Integer(magic));

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

PrintWriter out = response.getWriter();

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

out.println("我想出一个0到100之间的数，请你猜！");

out.println("<form action='/chap03/GuessNumberServlet' method='post'>");

out.println("<input type='text' name='guess' />");

out.println("<input type='submit' value='确定'/>");

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

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

}

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

HttpServletResponse response)

**throws** ServletException, IOException {

**int** guess = Integer.*parseInt*(request.getParameter("guess"));

HttpSession session = request.getSession();

**int** magic = (Integer)session.getAttribute("num");

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

PrintWriter out = response.getWriter();

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

**if**(guess==magic){

session.invalidate(); // 销毁会话对象

out.println("祝贺你，答对了!");

out.println("<a href = '/chap03/GuessNumberServlet'>再猜一次.</a>");

}**else** **if**(guess>magic){

out.println("太大了! 请重猜!");

}**else**{

out.println("太小了! 请重猜!");

}

out.println("<form action='/chap03/GuessNumberServlet' method='post'>");

out.println("<input type='text' name='guess' />");

out.println("<input type='submit' value='确定'/>");

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

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

}

}

**程序3.4 SendCookieServlet.java**

**package** com.demo;

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

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

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

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

@WebServlet("/SendCookie")

**public** **class** SendCookieServlet **extends** HttpServlet{

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

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

HttpServletResponse response)

**throws** IOException,ServletException{

Cookie userCookie = **new** Cookie("username", "hacker");

userCookie.setMaxAge(60\*60\*24\*7);

response.addCookie(userCookie);

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

PrintWriter out = response.getWriter();

out.println("<html><title>发送Cookie</title>");

out.println("<body><h3>已向浏览器发送一个Cookie。</h3></body>");

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

}

}

**程序3.5 ReadCookieServlet.java**

**package** com.demo;

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

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

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

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

@WebServlet("/ReadCookie")

**public** **class** ReadCookieServlet **extends** HttpServlet{

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

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

HttpServletResponse response)

**throws** IOException,ServletException{

String cookieName = "username";

String cookieValue = **null**;

Cookie[] cookies = request.getCookies();

**if** (cookies!=**null**){

**for**(**int** i = 0;i<cookies.length;i++){

Cookie cookie = cookies[i];

**if**(cookie.getName().equals(cookieName))

cookieValue = cookie.getValue();

}

}

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

PrintWriter out=response.getWriter();

out.println("<html><title>读取Cookie</title>");

out.println("<body><h3>从浏览器读回一个Cookie</h3>");

out.println("Cookie名:"+cookieName+"<br>");

out.println("Cookie值:"+cookieValue+"<br>");

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

}

}

**程序3.6 login.jsp**

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

pageEncoding=*"UTF-8"*%>

<html>

<head><title>登录页面</title></head>

<body>

${sessionScope.message}<br>

<form action=*"CheckUserServlet"* method=*"post"*>

请输入用户名和口令：<br>

用户名:<input type=*"text"* name=*"username"* /><br>

口　令:<input type=*"password"* name=*"password"* /><br>

<input type=*"checkbox"* name=*"check"* value=*"check"* />自动登录<br>

<input type=*"submit"* value=*"提交"*/>

<input type=*"reset"* value=*"重置"*/>

</form>

</body>

</html>

**程序3.7 CheckUserServlet.java**

**package** com.demo;

**import** java.io.IOException;

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

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

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

@WebServlet("/CheckUserServlet")

**public** **class** CheckUserServlet **extends** HttpServlet {

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

String message = **null**;

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

HttpServletResponse response)

**throws** ServletException, IOException {

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

String value1 = "",value2="";

Cookie cookie = **null**;

Cookie[] cookies = request.getCookies();

**if** (cookies!=**null**){

**for**(**int** i = 0;i<cookies.length;i++){

cookie = cookies[i];

**if**(cookie.getName().equals("username"))

value1 = cookie.getValue();

**if**(cookie.getName().equals("password"))

value2 = cookie.getValue();

}

**if**(value1.equals("admin")&&value2.equals("admin")){

message = "欢迎您！"+value1+"再次登录该页面！";

request.getSession().setAttribute("message", message);

response.sendRedirect("welcome.jsp");

}**else**{

response.sendRedirect("login.jsp");

}

}**else**{

response.sendRedirect("login.jsp");

}

}

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

HttpServletResponse response)

**throws** ServletException, IOException {

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

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

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

**if**(!username.equals("admin") || !password.equals("admin")){

message = "用户名或口令不正确，请重试！";

request.getSession().setAttribute("message",message);

response.sendRedirect("login.jsp");

}**else**{

// 如果用户选中了“自动登录”复选框，向浏览器发送2个Cookie

**if**((request.getParameter("check")!=**null**) &&

(request.getParameter("check").equals("check"))){

Cookie nameCookie = **new** Cookie("username", username);

Cookie pswdCookie = **new** Cookie("password", password);

nameCookie.setMaxAge(60\*60);

pswdCookie.setMaxAge(60\*60);

response.addCookie(nameCookie);

response.addCookie(pswdCookie);

}

message = "你已成功登录！";

request.getSession().setAttribute("message",message);

response.sendRedirect("welcome.jsp");

}

}

}

**welcome.jsp**

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

pageEncoding=*"utf-8"*%>

<html>

<head>

<title>欢迎页面</title>

</head>

<body>

<h4>欢迎你!</h4>

${sessionScope.message}

</body>

</html>