**Java Web开发**

**实验五**

**作业报告**

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| --- | --- |
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# 1实验题目

第四章课后练习3购物车，实现一个购物车应用程序，可以购物，显示购物数量并查看购物车内容。（此题模版test4E，提供给大家参考。）

提示：采购此书做成超链接，并用URL重写带关键信息

（a) Shopping.view?bookID=‘0001’，其中0001是你选中图书对应的ID号，每点击一次就在相应的购书数量上加一，并返回当前的选购页面。

（b) 除了要保存图书的ID号、书名，还要保存购书数量，所以session对象保存的信息需要考虑清楚，最好是一个对象

数组或列表。

购物车的效果图

# 关键源码（部分）

Main.jsp

<%@ page language=*"java"* import=*"java.util.\*"* pageEncoding=*"utf-8"*%>

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html>

<body><FONT Size=*7*>

<p>请输入用户名进行登录

<FORM action=*"ShopLogin.view"* method=*"post"* name=*"form"*>

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

<input type=*"submit"* value=*"提交"* name=*"submit"*>

</form>

<%

String ID=(String)session.getId();

String name=(String)session.getAttribute("customerName");

**if**((name!=**null**)&&(name.length()>0))

{

%><p>登陆成功的ID号：<%=ID %>

<p>session

<A href=*"food.jsp"*>欢迎选购商品</A>

<%}

%>

</FONT>

</body>

</html>

ShopLogin.java

package com.session;

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 javax.servlet.http.HttpSession;

@WebServlet("/ShopLogin.view")

public class ShopLogin extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

HttpSession session=request.getSession();

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

if(username.length()==0)

{

response.sendRedirect("main.jsp");

}

else

{

session.setAttribute("customerName", "username");

response.sendRedirect("Shopping.jsp");

}

}

}

Shopping.jsp

<%@ page language=*"java"* import=*"java.util.\*"* import=*"com.session.Book"* pageEncoding=*"utf-8"*%>

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html>

<%

**if**(session.getAttribute("bookList")==**null**)

{

Book[] BookList=**new** Book[4];

BookList[0]=**new** Book("10101","Java核心技术","image\\1.jpg",0);

BookList[1]=**new** Book("10102","软件工程","image\\4.jpg",0);

BookList[2]=**new** Book("10103","数据库概论","image\\2.jpg",0);

BookList[3]=**new** Book("10104","Java7","image\\3.jpg",0);

session.setAttribute("bookList", BookList);

session.setAttribute("sum", 0);

}

%>

<body>

<img src=*"image/car.jpg"* height=*"60px"* width=*"60px"*>

<a href=*"car.view"*>已采购<%=session.getAttribute("sum") %>本书</a>

<br>

<table border=*"1"*>

<%

Book[] bookList=(Book[])session.getAttribute("bookList");

**for**(Book book:bookList)

{

out.println("<tr>");

out.println("<td><img src='"+book.getbookImg()+"'height=200px width=150px></td>");

out.println("<td><a href='shopping.view?id="+book.getbookID()+"'> 采购此书</a></td>");

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

}

%>

</table>

</body>

</html>

ShoppingServlet.java

package com.session;

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 javax.servlet.http.HttpSession;

import com.session.Book;

/\*\*

\* Servlet implementation class ShoppingServlet

\*/

@WebServlet("/shopping.view")

public class ShoppingServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

HttpSession session=request.getSession();

String iD="";

int num=0;

String prods[]=request.getParameterValues("id");

Book[] chart=(Book[])session.getAttribute("bookList");

if(prods!=null)

{

for(int k=0;k<prods.length;k++)

{

iD=prods[k];

for(int i=0;i<chart.length;i++)

{

if(iD.equals(chart[i].getbookID()))

{

chart[i].setshopNum(chart[i].getshopNum()+1);

break;

}

}

}

}

for(int i=0;i<chart.length;i++)

{

num=num+chart[i].getshopNum();

}

session.setAttribute("sum", num);

session.setAttribute("bookList", chart);

response.sendRedirect("Shopping.jsp");

}

}

CarServlet.java

package com.session;

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;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class CarServlet

\*/

@WebServlet("/car.view")

public class CarServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

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

PrintWriter out=response.getWriter();

HttpSession session=request.getSession();

Book[] carList=(Book[])session.getAttribute("bookList");

out.println("<html>");

out.println("<body>");

out.println("<p>");

out.println("已购买"+session.getAttribute("sum")+"本书籍");

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

out.println("<table border='1'>");

for(Book show:carList)

{

out.println("<tr>");

out.println("<td><img src='"+show.getbookImg()+"' height=300px width=150px></td>");

out.println("<td>已购买"+show.getshopNum()+"本</td>");

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

}

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

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

out.println("</html");

out.close();

}

}

Book.java

**package** com.session;

**public** **class** Book {

String bookID;

String bookName;

String bookImg;

**int** shopNum;

**public** Book(String id,String name,String img,**int** num)

{

**this**.bookID=id;

**this**.bookName=name;

**this**.bookImg=img;

**this**.shopNum=num;

}

**public** String getbookID()

{

**return** bookID;

}

**public** **void** setbookId(String bookID)

{

**this**.bookID=bookID;

}

**public** String getbookName()

{

**return** bookName;

}

**public** **void** setbookName(String bookName)

{

**this**.bookName=bookName;

}

**public** String getbookImg()

{

**return** bookImg;

}

**public** **void** setbookImg(String setbookImg)

{

**this**.bookImg=setbookImg;

}

**public** **int** getshopNum()

{

**return** shopNum;

}

**public** **void** setshopNum(**int** shopNum)

{

**this**.shopNum=shopNum;

}

}

# 运行效果图





# 收获与问题

谈一谈你在本实验中所收获的内容及问题。