**Java Web开发**

**实验一**

**作业报告**

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# 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。

采购此书做成超链接，并用URL重写带关键信息

1. 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。
2. 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。

# 分析与设计

根据题目要求，计划设计几个文件来完成实验，每个文件的名字、作用。如果是类，要求写出类的变量和方法

Shopping.jsp

Book.java--String bookID;

String bookName;

float bookPrice;

String bookImg;

int shopNum;

carServlet.java

shopServlet.java

# 关键源码（部分）

Shopping.jsp

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

<%@ page import=*"Project5.\*"*%>

<%@ page import=*"java.io.PrintWriter"* %>

<%

String path = request.getContextPath();

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

%>

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

<html>

<head>

<title>购书界面</title>

</head>

<% **if**(session.getAttribute("booklist")==**null** ){

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

Booklist[0]=**new** Book ("0001","JavaScript","image/JavaScript.jpg",0);

Booklist[1]=**new** Book ("0002","java","image/java.jpg",0);

Booklist[2]=**new** Book ("0003","jquery","image/jquery.jpg",0);

Booklist[3]=**new** Book ("0004","JS","image/JS.jpg",0);

session.setAttribute("booklist",Booklist );

session.setAttribute("sum",0);

}

%>

<body>

<a href=*"servlet/carServlet"*>已采购<%=session.getAttribute("sum")%>本书籍 </a><br>

<br>

<table border=*"1"*>

<%

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

**for**(Book book: booklist){

out.println("<tr>");

out.println("<td><img src='"+book.getBookImg()+"'width=\"228\" height=\"228\"> </td>");

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

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

}

%>

</body>

</html>

Book.java

**package** Project5;

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

String bookID;

String bookName;

**float** bookPrice;

String bookImg;

**int** shopNum;

**public** String getBookImg() {

**return** bookImg;

}

**public** **void** setBookImg(String bookImg) {

**this**.bookImg = bookImg;

}

**public** String getBookID() {

**return** bookID;

}

**public** **void** setBookID(String bookID) {

**this**.bookID = bookID;

}

**public** String getBookName() {

**return** bookName;

}

**public** **void** setBookName(String booktName) {

**this**.bookName = booktName;

}

**public** **float** getBookPrice() {

**return** bookPrice;

}

**public** **void** setBookPrice(**float** bookPrice) {

**this**.bookPrice = bookPrice;

}

**public** **int** getShopNum() {

**return** shopNum;

}

**public** **void** setShopNum(**int** shopNum) {

**this**.shopNum = shopNum;

}

**public** Book(){}

**public** Book(String bookID,String bookName,String bookImg,**int** shopNum){

**this**.bookID =bookID ;

**this**.bookName =bookName ;

**this**.bookImg =bookImg ;

**this**.shopNum =shopNum ;

}

}

carServlet.java

**package** Project5;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**public** **class** carServlet **extends** HttpServlet {

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

**throws** ServletException, IOException {

doPost(request,response);

}

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

**throws** ServletException, IOException {

HttpSession session =request.getSession() ;

request.setCharacterEncoding("utf-8") ;

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

Book[] BookList =(Book[])session.getAttribute("booklist");

PrintWriter out=response.getWriter() ;

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

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

out.println("<p>已采购"+session.getAttribute("sum")+"本书");

**for**(Book book:BookList){

**if**(book.getShopNum()>0)

{

out.println("<tr>");

out.println("<td><img src='"+book.getBookImg()+"'width=\"228\" height=\"228\"> </td>");

out.println("<td>共"+book.getShopNum() +"本</td>");

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

}

}

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

}

shopServlet.java

**package** Project5;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** javax.servlet.http.HttpSession;

**public** **class** shopServlet **extends** HttpServlet {

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

**throws** ServletException, IOException {

doPost(request,response);

}

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

**throws** ServletException, IOException {

HttpSession session =request.getSession() ;

request.setCharacterEncoding("utf-8") ;

**int** Sum=(Integer)session.getAttribute("sum");

Book[] BookList =(Book[])session.getAttribute("booklist");

String ID=(String)request.getParameter("id");

**for**(Book book:BookList){

**if**(book.getBookID().equals(ID))

{

book.setShopNum(book.getShopNum()+1);

Sum++;

}

}

session.setAttribute("booklist",BookList);

session .setAttribute("sum",Sum);

response.sendRedirect("shopping.jsp");

}

}

# 运行效果图

# 





# 收获与问题

Img所放的位置，在WebRoot下面创建一个文件夹image将图片放入，<img src='"+book.getBookImg()+"'width=\"228\" height=\"228\">

Public void setAttibute(String key,Object obj)将obj添加到session对象中，并为添加对象指定了一个索引关键字，如果添加的两个对象的关键字相同，则先前添加的对象被清楚

Public Object getAttribute(String key)获取的session对象含有关键字是key对象，由于任何对象都可以添加到session对象中，因此用该方法取回对象时应强制转换为原来的类型