**Java Web开发**

**实验五**

**作业报告**

|  |  |
| --- | --- |
| 学 院 | 计算机 |
| 所在系 班 级 | 2017软件工程系11班 |
| 学 号 姓 名 | 10170102黄嘉欣 |
| 指 导 教 师 | 罗永升 |
| 完 成 时 间 | 2018年4月 |

# 1.1实验题目

1. 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

* 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。

# 1.2分析与设计

**Book.java:** 书本的类包括书的ID号，书名，书本图片，购书数量，书本价格

**Shopping.jsp:** 购物页面显示商品的东西

**Cart.jsp:** 显示购物车里面选购的东西和购买数量

**ShoppingServlet.java:** 当点击购物页面Shopping.jsp的“采购此书”时，进行处理相应商品数量加1，购物车总数量加1的操作，再跳转回购物页面显示商品的东西及相应数量

**CartServlet.java:**跳转显示购物车里面选购的东西和购买数量

# 1.3关键源码（部分）

**Book.java:**

**package** test5;

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

String id; //商品ID

String name; //商品名称

String img; //商品图片

**float** price; //商品价格

**int** num; //购买商品数量

**public** Book(String id,String name,String img,**float** price){

**this**.id = id;

**this**.name = name;

**this**.img = img;

**this**.price=(**float**) price;

**this**.num = 0;

}

**public** **void** setid(String id){

**this**.id = id;

}

**public** String getid(){

**return** id;

}

**public** **void** setname(String name){

**this**.name = name;

}

**public** String getname(){

**return** name;

}

**public** **void** setimg(String img) {

**this**.img = img;

}

**public** String getimg() {

**return** img;

}

**public** **void** setprice( **float** price){

**this**.price= price;

}

**public** **float** getprice(){

**return** price;

}

**public** **void** setnum(**int** num){

**this**.num= num;

}

**public** **int** getnum(){

**return** num;

}

}

**Shopping.jsp:**

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

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

<html>

<FORM action=*"./shopping.view"* method=*get* name=*form*>

<%

//第一次访问采购网页，session对象中还没有book购物车信息时，进行初始化。

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

//在session对象中存储图书采购信息

test5.Book[] BookList = **new** test5.Book[3];

BookList[0] = **new** test5.Book("10101", "大学语文", "BookImg/10101.jpg", 0);

BookList[1] = **new** test5.Book("10102", "大学物理", "BookImg/10102.jpg", 0);

BookList[2] = **new** test5.Book("10103", "高等数学", "BookImg/10103.jpg", 0);

//存入session对象中

session.setAttribute("bookList",BookList);

session.setAttribute("sum",0);

}

%>

<body>

<img src=*"BookImg/car.jpg "* height=*"100px"* width=*"100px"*>

<a href=*"Cart.jsp"*>已采购<%=session.getAttribute("sum") %>本书籍</a>

<br>

<table border=*"1"*>

<%

test5.Book[] bookList=(test5.Book[])session.getAttribute("bookList");

**for**(test5.Book book:bookList){

out.println("<tr>");

out.println("<td> <img src='"+book.getimg()+"'> </td>");

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

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

}

%>

</body>

</html>

**Cart.jsp:**

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

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

<html>

<FORM action=*"./cart.view"* method=*get* name=*form*>

<head>

<meta charset=*"UTF-8"*>

</head>

<body>

已采购<%=session.getAttribute("sum") %>本书籍<br>

<%

test5.Book[] bookList=(test5.Book[])session.getAttribute("bookList");

**for**(test5.Book book:bookList){

out.println("<tr>");

out.println("<td> <img src='"+book.getimg()+"'> </td>");

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

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

}

%>

</body>

</html>

**CartServlet.java:**

**package** test5;

**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("/test5/cart.view")

**public** **class** CarServlet **extends** HttpServlet {

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

**throws** ServletException, IOException {

response.setContentType("text/html");

request.setCharacterEncoding("utf-8");

HttpSession session=request.getSession();

**int** Bnum=0;

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

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

**if**(bookList[i].getnum()>0){

Bnum = Bnum+bookList[i].getnum();

}

}

session.setAttribute("Bnum", Bnum);

request.getRequestDispatcher("Cart.jsp").forward(request, response);

}

}

**ShoppingServlet.java:**

package test5;

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;

@WebServlet("/test5/shopping.view")

public class ShoppingServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

//处理request对象的中文乱码

request.setCharacterEncoding("utf-8");

HttpSession session=request.getSession();

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

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

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

try{

if(bookList!=null){

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

if(bookList[i].id.equals(id)){

session.setAttribute("num",bookList[i].num++);

session.setAttribute("sum", sum+1);

}

}

}

session.setAttribute("bookList", bookList);

}catch(Exception ex){

System.out.println(ex);

}

request.getRequestDispatcher("shopping.jsp").forward(request, response);

}

}

# 1.4运行效果图





