**Java Web开发**

**实验五**

**作业报告**

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| --- | --- |
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# 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、4.。查看购物车内容。（此题模版test4E，提供给大家参考。）

# 分析与设计

第一题：

在参考老师所给的资料后，对于购物界面使用了Shopping.jsp来展示，并通过创建一个Book类来实现书本的基本属性的设置和访问，其中carServlet.java用于判断是否购买了书，如果买了便输出所买的书本的编号，书名和相应书本所购买的数量，还有ShoppingServlet.java则用于获取从Shopping.jsp传来的request对象中的ID号在ID号不为空的情况下，获取Session对象中的购物车信息，Book数组。找到数组中与ID对应的Book对象，将其属性bookNum数字加1/将数组写回session对象中去。跳转回Shopping.jsp

# 关键源码（部分）

Shopping.jsp

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

<%@page import=*"cc.test.vo.\*"* %>

<%

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>

<base href=*"*<%=basePath%>*"*>

<title>购物车</title>

<meta http-equiv=*"pragma"* content=*"no-cache"*>

<meta http-equiv=*"cache-control"* content=*"no-cache"*>

<meta http-equiv=*"expires"* content=*"0"*>

<meta http-equiv=*"keywords"* content=*"keyword1,keyword2,keyword3"*>

<meta http-equiv=*"description"* content=*"This is my page"*>

</head>

<%

//当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("book")==**null**){

//在session对象中存储图书采购信息

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

BookList[0] = **new** Book("10101", "head first java 中文版 第2版", "img\02.jpg", 0);

BookList[1] = **new** Book("10102", "深入理解Java虚拟机：JVM高级特性与最佳实践", "img\03.jpg", 0);

BookList[2] = **new** Book("10103", "Spring Cloud与Docker微服务架构实战", "img\04.jpg", 0);

//存入session对象中

session.setAttribute("book", BookList);

}

%>

<body>

<img width = *"200px"* height =*"200px"* src = *"img\01.png"*/> <br>

<%

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

%>

<a href=*"cart.view"*>已采购<%=BookList[0].getBookNum()+BookList[1].getBookNum()+BookList[2].getBookNum() %> 本书籍</a><br>

<hr>

<table align=*"center"* border=*"1"* width = *"10px"* height =*"20px"*>

<tr>

<td>

<img width = *"500px"* height =*"500px"* src = *"img\02.jpg"*/>

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head first java 中文版 第2版

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深入理解Java虚拟机：JVM高级特性与最佳实践

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Spring Cloud与Docker微服务架构实战

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<tr>

<td align=*"center"*><a href=*"shopping.view?id=10101"*>采购此书</a></td>

<td align=*"center"*><a href=*"shopping.view?id=10102"*>采购此书</a></td>

<td align=*"center"*><a href=*"shopping.view?id=10103"*>采购此书</a></td>

</tr>

</table>

</body>

</html>

CarServlet.java

package cc.test.Controller;

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;

import cc.test.vo.Book;

public class CarServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

/\*判断得到session对象中存储的book信息是否为空

不为空的前提下，读出Book数组中的内容，并将数目不为1的图书信息显示在网页上。

\*/

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

PrintWriter out=response.getWriter();

HttpSession session=request.getSession();

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

out.println("<HTML>");

out.println(" <HEAD><TITLE>已购买</TITLE></HEAD>");

out.println(" <BODY>");

out.println("已加入购物车的书籍：<br>");

for(int b=0;b<BookList.length;b++){

if(BookList[b].getBookNum()!=0){

out.println("<p>");

out.println(BookList[b].getBookId()+"+"+BookList[b].getBookName()+"<br>");

out.println("书本的数量为:"+BookList[b].getBookNum()+"<br>");

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

}

}

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

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

out.flush();

out.close();

}

public void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request,response);

}

}

ShoppingServlet.java

package cc.test.Controller;

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;

import cc.test.vo.Book;

public class ShopingServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

HttpSession session=request.getSession();

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

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

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

if(id.equals(BookList[i].getBookId())){

BookList[i].setBookNum(BookList[i].getBookNum()+1);

response.sendRedirect("Shopping.jsp");

}

}

}

public void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request,response);

}

}

Book.java

**package** cc.test.vo;

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

**private** String bookId; //书号

**private** String bookName;//书名

String bookImg; //书封面所在地址

**private** **int** bookNum; //购书本数

**public** Book(String bookId, String bookName, String bookImg, **int** bookNum) {

**this**.bookId = bookId;

**this**.bookName = bookName;

**this**.bookImg = bookImg;

**this**.bookNum = 0;

}

**public** String getBookId() {

**return** bookId;

}

**public** String getBookName() {

**return** bookName;

}

**public** String getBookImg() {

**return** bookImg;

}

**public** **int** getBookNum() {

**return** bookNum;

}

**public** **void** setBookNum(**int** bookNum){

**this**.bookNum=bookNum;

}

}

# 运行效果图



