**Java Web开发**

**实验三**

**作业报告**

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| --- | --- |
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| 完 成 时 间 | 2019年3月17日 |

# 实验题目

实验内容：

1、上周没有完成作业的同学请继续完成，完成了作业的同学请为购物车增加功能：

2、参考成熟的购物系统，为购物车增加功能，完善购物车：删除商品，查看商品具体信息，计算商品总价，修改商品购买件数等等。界面尽量美观。

提示：Java文件即Book.java的设计需要重构，需要分离商品基本信息和购买信息，需要有类分别来保存单件商品的购买信息和所有商品的购买信息。所以至少要三个Java类才能完成购物的基本功能。

Servlet也需要响应更多的操作，可以在一个Servlet中也可以分多个文件响应。并在适当的地方调用Java方法。

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# 关键源码（部分）

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

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

<html>

<head>

<h1>登录页面</h1>

</head>

<body bgcolor=*"#00FFFF"*>

<form action=*"login.do"* method=*"post"* name =*"form"*>

用户名:

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

<br><br>

<input type=*"submit"* value=*"登录"*>

</form>

</body>

</html>

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

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

<%

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>

<img src=*"img/000.jpg"* height=*"160px"* width=*"160px"*>

<a href=*"cart.view"*>已采购<%=session.getAttribute("sum") %>本书籍，点击确定</a>

<br><br><br>

<a action=*"introduce.view"* method=*"post"*><%=session.getAttribute("bookName") %></a><br><br><br>

<table border=*"13"*>

<%

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

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

out.println("<tr>");

out.println("<td> <img src='"+book.getBookImg()+"'height='220px' width='380px'><a href='introduce.view?id="+book.getBookID()+"'>点此查看信息</a></td>");

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

out.println("<td><a href='delete.view?id="+book.getBookID()+"'>书本数量减1</a></td>");

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

}

%>

</table>

</body>

package shop;

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("/shopping.view")

public class ShoppingServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

doPost(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

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

HttpSession session=request.getSession();

request.setCharacterEncoding("utf-8");

String id;

int num;

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

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

int a=0;

if(getID!=null){

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

if(getID.equals(book[i].getBookID())){

a++;

int b=book[i].getShopNum();

b++;

book[i].setShopNum(b);

break;

}

}

}

int sum;

sum=book[0].getShopNum()+book[1].getShopNum()+book[2].getShopNum();

session.setAttribute("sum", sum);

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

}

}

package shop;

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("/login.do")

public class LoginServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

doPost(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

HttpSession session=request.getSession();

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

String a="0";

if(name==null&&name.length()<1){

name="";

response.sendRedirect("Login.jsp");

}else{

Book[]book=initChart();

String bookName = "--------------------------------";

session.setAttribute("bookList", book);

session.setAttribute("sum", 0);

session.setAttribute("bookName", bookName);

response.sendRedirect("shopping.jsp");

}

}

public Book[] initChart() {

Book[] BookList=new Book[4];

BookList[0] = new Book("10101", "Java核心技术", "img/10101.jpg", 0);

BookList[1] = new Book("10102", "Java经典实例", "img/10102.jpg", 0);

BookList[2] = new Book("10103", "Java7", "img/10103.jpg", 0);

BookList[3] = new Book("10104", "JSP&Servlet", "img/10104.jpg",0);

return BookList;

}

}

package shop;

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("/introduce.view")

public class introduce 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 {

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

HttpSession session=request.getSession();

request.setCharacterEncoding("utf-8");

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

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

PrintWriter out = response.getWriter();

String bookName = null;

if(getID!=null){

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

if(getID.equals(book[i].getBookID())){

out.println(bookName=book[i].getBookName()+"欢迎学习");

break;

}

}

}

session.setAttribute("bookName", bookName);

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

}

public void init() throws ServletException {

// Put your code here

}

}

package shop;

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("/delete.view")

public class delete 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 {

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

HttpSession session=request.getSession();

request.setCharacterEncoding("utf-8");

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

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

if(getID!=null){

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

if(getID.equals(book[i].getBookID())){

book[i].delete();

break;

}

}

}

int sum;

sum=book[0].getShopNum()+book[1].getShopNum()+book[2].getShopNum();

session.setAttribute("sum", sum);

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

}

public void init() throws ServletException {

// Put your code here

}

}

package shop;

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("/cart.view")

public class chartServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

doPost(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

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

HttpSession session=request.getSession();

request.setCharacterEncoding("utf-8");

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

int sum=book[0].getShopNum()+book[1].getShopNum()+book[2].getShopNum();

PrintWriter out = response.getWriter();

out.println("<html><body><font size=8>");

out.println("已采购"+sum+"本书籍<br>");

out.println("<td><a>每本15元共"+sum\*15+"元</a></td>");

out.println("<table border=11>");

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

if(book[i].getShopNum()>0){

out.println("<tr>");

out.println("<td> <img src='"+book[i].getBookImg()+"'height='220px' width='280px'> </td>");

out.println("<td><a>"+book[i].getBookName()+"共"+book[i].getShopNum()+"本</a></td>");

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

}

}

out.println("<a href='shopping.jsp'>返回修改购物</a>");

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

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

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

}

}

**package** shop;

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

String bookID;

String bookName;

String bookImg;

**int** shopNum=0;

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

**return** shopNum;

}

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

**this**.shopNum=shopNum;

}

**public** String getBookImg(){

**return** bookImg;

}

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

**this**.bookImg=bookImg;

}

**public** **void** delete(){

**this**.shopNum=0;

}

}

# 运行效果图





