**Java Web开发**

**实验六**

**作业报告**

|  |  |
| --- | --- |
| 学 院 | 计算机 |
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# 实验题目

1. 实验目标：

1、 学习更好的设计Java类。从而灵活使用session对象；

2、 完善购物车的功能；

3、 优化购物车的结构。

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。

# 关键源码（部分）

ShopLogin.java

package webtext;

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==null||(username.length()<=0))

{

response.sendRedirect("Login.jsp");

}

else

{

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

response.sendRedirect("Shopping.jsp");

}

}

}

Login.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>

<head>

<title>登陆界面</title>

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

<link rel=*"stylesheet"* href=*"http://cdn.bootcss.com/bootstrap/3.3.0/css/bootstrap.min.css"*>

<style type=*"text/css"*>

**body**

{

background-size:*cover*;

font-size:*16px*;

}

*.form*

{

background: *rgba(255,255,255,0.4)*;

padding:*20px*;

padding-left:*40px*;

padding-right:*40px*;

}

</style>

</head>

<body background=*"img/c1.jpg"* >

<div class=*"container"* style="margin-top: *200px*;">

<form role=*"form"* action=*"shopLogin.view"*

class=*"col-sm-offset-4 col-sm-4 form form-horizontal"* method=*"post"* >

<h3 class=*"text-center"*>用户登陆</h3>

<div class=*"form-group "* >

<label class=*"col-sm-2 control-label"* ><span class=*"glyphicon glyphicon-user"*></span>User</label>

<div class=*"col-sm-10"* >

<input type=*"text"* class=*"from-control"* name=*"username"* placeholder=*"请输用户名"*>

</div>

<div class=*"form-group"*>

<label class=*"col-sm-2 control-label"*></label>

<div class=*"col-sm-10"*>

<%

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

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

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

{

%>

<p>登陆成功的ID号<%=ID %>

<p>session

<a href=*"Shopping.jsp"*><font color=*"red"*> 欢迎选购商品！</font></a>

<%

}

%>

</div>

</div>

<div class=*"form-group"*>

<button type=*"submit"* class=*"btn btn-primary center-block"*>登陆</button>

</div>

</form>

</div>

</body>

</html>

Book.java

**package** webtext;

**public** **class** Book

{

String bookID;

String bookName;

String bookImg;

**int** shopNum;

String Message;

**double** price;

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

{

**this**.bookID=id;

**this**.bookName=name;

**this**.bookImg=img;

**this**.shopNum=num;

**this**.Message=mes;

**this**.price=pr;

}

**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 bookImg)

{

**this**.bookImg=bookImg;

}

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

{

**return** shopNum;

}

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

{

**this**.shopNum=shopNum;

}

**public** String getMessage()

{

**return** Message;

}

**public** **void** setprice(String Message)

{

**this**.Message=Message;

}

**public** **double** getprice()

{

**return** price;

}

**public** **void** setprice(**double** price)

{

**this**.price=price;

}

}

CarServlet.java

**package** webtext;

**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("/car.view")

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

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

**throws** ServletException, IOException {

String id;

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("<a href='Shopping.jsp'>返回</a>");

out.println("<p>");

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

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

out.println("<p>");

out.println("商品总价，总价为:"+session.getAttribute("Price")+"元");

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

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

**for**(Book show:carList)

{

out.println("<tr>");

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

out.println("<td>"+show.getprice()+"元</td>");

out.println("<td><a href='Cart.jsp?id0="+show.getbookID()+"'>查看商品信息</a></td>");

out.println("<td><a href='shopping.view?id1="+show.getbookID()+"'>添加</a></td>");

out.println("<td><a href='shopping.view?id3="+show.getbookID()+"'>减少</a></td>");

out.println("<td><a href='shopping.view?id2="+show.getbookID()+"'>删除</a></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();

}

}

ShoppingServlet.java

**package** webtext;

**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("/shopping.view")

**public** **class** ShoppingServlet **extends** HttpServlet {

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

**throws** ServletException, IOException {

request.setCharacterEncoding("UTF-8");

String iD="";

String ID="";

String Sd="";

String dd="";

**int** num=0;

**double** sum=0;

HttpSession session=request.getSession();

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

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

iD=request.getParameter("id1");

ID=request.getParameter("id2");

dd=request.getParameter("id3");

PrintWriter out=response.getWriter();

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

{

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

{

**if**(dd.equals(chart[i].getbookID())&&chart[i].getshopNum()>0)

{

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

}

}

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

{

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

}

session.setAttribute("sum", num);

session.setAttribute("bookList", chart);

response.sendRedirect("car.view");

}

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

{

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

{

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

{

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

}

}

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

{

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

}

session.setAttribute("sum", num);

session.setAttribute("bookList", chart);

response.sendRedirect("car.view");

}

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

{

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

{

**if**(ID.equals(chart[i].getbookID()))

{

chart[i].setshopNum(0);

}

}

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

{

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

}

session.setAttribute("sum", num);

session.setAttribute("bookList", chart);

response.sendRedirect("car.view");

}

**else** **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");

}

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

{

sum=sum+(**double**) (chart[i].getshopNum()\*chart[i].getprice());

}

session.setAttribute("Price", sum);

}

}

Cart.jsp

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

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

<%

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>

<a href=*"car.view"*>返回</a>

<%

String id=request.getParameter("id0");

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

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

{

**if**(id.equals(List[i].getbookID()))

{

%>

<h1 class=*"text-center"*><% List[i].getbookName(); %>简介 </h1>

<p><%=List[i].getMessage()%></p>

<p>价格：<%=List[i].getprice()%>元</p>

<%

}

}

%>

</body>

</html>

Shopping.jsp

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

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

<%

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**&&session.getAttribute("Message")==**null**)

{

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

BookList[0]=**new** Book("10101","Java核心技术","img\\10101.jpg",0,"《JAVA核心技术》（第8版）是2011年电子工业出版社出版的图书，作者是昊斯特曼、Gary Cornell。本书针对JavaSE6平台进行了全面更新，<p>囊括了Java平台标准版(JavaSE/J2SE)的全部基础知识，提供了大量完整且具有实际意义的应用实例。</p>",25.00);

BookList[1]=**new** Book("10102","软件工程","img\\10102.jpg",0,"软件工程是一门研究用工程化方法构建和维护有效的、实用的和高质量的软件的学科。<p>它涉及程序设计语言、数据库、软件开发工具、系统平台、标准、设计模式等方面。</p>",35.00);

BookList[2]=**new** Book("10103","数据库概论","img\\10103.jpg",0,"《数据库系统概论》是2006年高等教育出版社出版的图书，作者是王珊、萨师煊。王珊教授，是中国人民大学信息学院教授、博士生导师。中国计算机学会副理事长，<p>中国计算机学会数据库专委会主任，教育部第五届科学技术委员会委员，中国科学技术协会第六届全国委员会委员等</p>",45.00);

BookList[3]=**new** Book("10104","Java7","img\\10104.jpg",0,"Java 7，代号「海豚(Dolphin)」，是Java历史上一次非常重大的版本更新。Java 7 由Sun公司(2009年4月20日被Oracle以74亿美元收购)于2011年7月7日首次推出，并于2011年7月28日正式面向开发人员发布。<p>Java 7 的开发周期分为13个阶段，并于2011年2月18日全部达成。平均每个阶段又更新发布了8个内部小版本，每个版本主要进行功能增强和bug修复。</P>",38.00);

session.setAttribute("Price", 0);

session.setAttribute("bookList", BookList);

session.setAttribute("sum", 0);

}

%>

<body>

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

<a href=*"car.view"*>已采购<%=session.getAttribute("sum") %>本书，点击查看购物车</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()+"'></td>");

out.println("<td>"+book.getprice()+"元</td>");

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

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

}

%>

</table>

</body>

</html>

# 运行效果图





