**Java Web开发**

**实验二**

**作业报告**

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| --- | --- |
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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

public void doPost(HttpServletRequest request,HttpServletResponse response)

throws ServletException,IOException

{

}

}

1.2.运行截图

1.3心得：通过运用注释法和文件部署法对Servlet有了更深一步的了解。

2. 请编写WelcomeYou.java文件，代码内容如下图，

1） 图中第25行是何意思？

2） 编写好之后请用如下两个地址来分别访问该文件：

http://127.0.0.1:8080/项目工程名/test2/welcome?user=‘李华’

http://127.0.0.1:8080/项目工程名/test2/welcome?user=‘Lihua’

记录下浏览器的显示内容，并分析其原因

2.1代码

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"* import=*"Book.Book"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>BuyBook</title>

</head>

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

session.setAttribute("sum", 0);%>

<%

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

{

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

booklist[0]=**new** Book("a","史记","/Users/wjp/Desktop/timg1.jpeg",25,0,"《史记》是西汉史学家司马迁撰写的纪传体史书，是中国历史上第一部纪传体通史，记载了上至上古传说中的黄帝时代，下至汉武帝太初四年间共3000多年的历史。");

booklist[1]=**new** Book("b","资治通鉴","/Users/wjp/Desktop/timg2.jpg",35,0,"《资治通鉴》（常简作《通鉴》），由北宋司马光主编的一部多卷本编年体史书，共294卷，历时19年完成。主要以时间为纲，事件为目，从周威烈王二十三年（公元前403年）写起，到五代后周世宗显德六年（公元959年）征淮南停笔，涵盖16朝1362年的历史。");

booklist[2]=**new** Book("c","论语","/Users/wjp/Desktop/timg3.jpg",15,0,"论语》是孔子及其弟子的语录结集，由孔子弟子及再传弟子编写而成，至战国前期成书。全书共20篇492章，以语录体为主，叙事体为辅，主要记录孔子及其弟子的言行，较为集中地体现了孔子的政治主张、伦理思想、道德观念及教育原则等。");

session.setAttribute("bookList", booklist);

}

%>

<body>

<table>

<tr>

<th><h1><img src=*"/Users/wjp/Desktop/timg1.jpeg"* width=*"200"* height=*"200"*></h1></th>

<th><h1><a href=*"settlement.jsp"*>您已购买<%=session.getAttribute("sum") %>本书</a></h1></th>

<th></th>

</tr>

<%

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

**if**(booklist!=**null**)

{

out.print("<tr>");

**for** (Book b:booklist) //遍历booklist里面的每一个元素

out.println("<td><img src='"+b.getbookurl()+"'width='300' height='300'></td>");

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

out.print("<tr>");

**for** (Book b:booklist)

out.println("<td align='center'><h1><a href='introduction.jsp?bookid="+b.getbookID()+"'>查看本书简介</a></h1></td>");

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

out.print("<tr>");

**for** (Book b:booklist)

out.println("<td align='center'><h1><a href='buy?bookid="+b.getbookID()+"'>购买</a></h1></td>");

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

}

%>

</table>

</body>

</html>

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"* import=*"Book.Book"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Book's message</title>

</head>

<%

**int** k=0;

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

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

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

**if**(bookid.equals(booklist[i].getbookID()))

k=i;

%>

<body>

<table width=*"1000"*>

<tr>

<td rowspan=*"2"*><img src=*"*<%=booklist[k].getbookurl()%>*"* width=*"300"* height=*"300"*></td>

<td align=*"center"*><h1><%=booklist[k].getbookName() %></h1></td>

</tr>

<tr>

<td align=*"center"*><h1><%=booklist[k].getbookprice()%>元/本</h1></td>

</tr>

<tr>

<td colspan=*"2"*><h2><%=booklist[k].getbookinstro() %></h2></td>

</tr>

</table>

</body>

</html>

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"* import=*"Book.Book"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Book's Car</title>

<style>

**table,th,td**

{

border:*1px solid black*;

border-collapse: *collapse*;

}

</style>

</head>

<%

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

**if**(session.getAttribute("total")==**null**)

session.setAttribute("total", 0);

**int** ss=0;

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

{

ss=ss+booklist[i].getbookprice()\*booklist[i].getbooknumber();

//session.setAttribute("all",(int)session.getAttribute("all")+booklist[i].getbookprice()\*booklist[i].getbooknumber());

}

session.setAttribute("total",ss);

%>

<body>

<h1>已采购<%=session.getAttribute("sum") %>本书&nbsp&nbsp&nbsp&nbsp&nbsp&nbsp&nbsp&nbsp<a href=*"buybook.jsp"*>返回购书</a></h1>

<h1>总计<%=session.getAttribute("total") %>元</h1>

<table>

<%

**for** (Book b:booklist)

{

out.print("<tr>");

out.println("<td><img src='"+b.getbookurl()+"' width='300' height='300'></td>");

out.println("<td align='center' width='150'><h1>"+b.getbooknumber()\*b.getbookprice()+"元</h1></td>");

out.println("<td align='center' width='250'><h1><a href='addsb?bookid="+b.getbookID()+"&name=add'><input type='submit' value='+'></a>共"+b.getbooknumber()+"本<a href='caimai?bookid="+b.getbookID()+"&name=delet'><input type='submit' value='-'></a></h1></td>");

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

}

%>

</table>

</body>

</html>

**package** Book;

**public** **class** Book **implements** java.io.Serializable{

String bookID;

String bookName;

String bookurl;

String bookinstro;

**int** bookprice;

**int** booknumber;

**public** Book(String id,String name,String url,**int** price,**int** number,String instroduce)

{

**this**.bookID=id;

**this**.bookName=name;

**this**.bookurl=url;

**this**.bookprice=price;

**this**.bookinstro=instroduce;

**this**.booknumber=number;

}

**public** String getbookID() {

**return** bookID;

}

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

**this**.bookID=bookID;

}

**public** String getbookName() {

**return** bookName;

}

**public** **void** setbookName(String bookName) {

**this**.bookName=bookName;

}

**public** String getbookurl() {

**return** bookurl;

}

**public** **void** setbookurl(String bookurl) {

**this**.bookurl=bookurl;

}

**public** **int** getbookprice() {

**return** bookprice;

}

**public** **void** setbookprice(**int** bookprice) {

**this**.bookprice=bookprice;

}

**public** String getbookinstro() {

**return** bookinstro;

}

**public** **void** setbookinstro(String bookinstro) {

**this**.bookinstro=bookinstro;

}

**public** **int** getbooknumber() {

**return** booknumber;

}

**public** **void** setbooknumber(**int** booknumber) {

**this**.booknumber=booknumber;

}

}

package Book;

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("/buy")

public class buy extends HttpServlet {

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

request.setCharacterEncoding("UTF-8");

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

HttpSession session=request.getSession();

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

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

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

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

{

if(bookid.equals(blist[i].getbookID()))

{

sum++;

blist[i].setbooknumber(blist[i].getbooknumber()+1);

break;

}

}

session.setAttribute("sum",sum);

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

}

}

package Book;

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("/addsb")

public class addsb extends HttpServlet {

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

request.setCharacterEncoding("UTF-8");

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

HttpSession session=request.getSession();

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

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

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

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

if(submit.equals("add"))

{

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

{

if(bookid.equals(blist[i].getbookID()))

{

sum++;

blist[i].setbooknumber(blist[i].getbooknumber()+1);

// session.setAttribute("all", (int)session.getAttribute("all")+blist[i].getbookprice());

break;

}

}

}

if(submit.equals("delet"))

{

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

{

if(bookid.equals(blist[i].getbookID()))

{

sum--;

blist[i].setbooknumber(blist[i].getbooknumber()-1);

//session.setAttribute("all", (int)session.getAttribute("all")-blist[i].getbookprice());

break;

}

}

}

session.setAttribute("sum",sum);

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

}

}

2.2运行截图





