**Java Web开发**

**实验六**

**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 | 04172214 余烁浩 |
| 指导教师 | 郭晓燕 |
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# 实验题目

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

# 分析与设计

Shopping.jsp:展示购物首页面；car.jsp：展示所购买的东西的页面；

Buy\_Book.java:用来定义一些属性；ShoppingServlet.java:业务处理，用来对所买的书籍进行统计；img文件夹：用来放一些图片；setcount.jsp:显示商品总价格

# 关键源码（部分）

**package** bean;

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

String bookID;

String bookName;

String bookImgSrc;

String bookInfo;

**int** shopNum;

**double** bookPrice;

**double** totalPrice;

**public** Book(String id, String name,String src,String info,**double** price){

**this**.bookID = id;

**this**.bookName = name;

**this**.bookImgSrc = src;

**this**.bookInfo = info;

**this**.shopNum = 0;

**this**.bookPrice = price;

}

**public** **double** getBookPrice() {

**return** bookPrice;

}

**public** **void** setBookPrice(**double** bookPrice) {

**this**.bookPrice = bookPrice;

}

**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 getBookImgSrc() {

**return** bookImgSrc;

}

**public** **void** setBookImgSrc(String bookImgSrc) {

**this**.bookImgSrc = bookImgSrc;

}

**public** String getBookInfo() {

**return** bookInfo;

}

**public** **void** setBookInfo(String bookInfo) {

**this**.bookInfo = bookInfo;

}

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

**return** shopNum;

}

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

**this**.shopNum = shopNum;

}

**public** **double** getTotalPrice() {

**double** totalPrice = 0;

totalPrice = shopNum \* bookPrice;

**return** totalPrice;

}

**public** **void** addShopNum(){

shopNum++;

}

**public** **void** minusShopNum(){

shopNum--;

}

Servlet

**bookInfoServlet**

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

**throws** ServletException, IOException {

request.setCharacterEncoding("UTF-8");

HttpSession session = request.getSession();

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

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

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

**for**(Book bk : books){

**if**(request.getParameter("id").equals(bk.getBookID())){

request.getRequestDispatcher("bookInfo.jsp?id=" + id).forward(request, response);

**addCountServlet**

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

**throws** ServletException, IOException {

HttpSession session = request.getSession();

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

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

**for**(Book bk : books){

**if**(bk.getBookID().equals(id)){

bk.addShopNum();

}

}

response.sendRedirect("order.jsp");

}

**minusCountServlet**

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

**throws** ServletException, IOException {

HttpSession session = request.getSession();

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

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

**for**(Book bk : books){

**if**(bk.getBookID().equals(id)){

bk.minusShopNum();

}

}

response.sendRedirect("order.jsp");

}

**cartServlet**

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

**throws** ServletException, IOException {

HttpSession session = request.getSession();

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

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

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

**int** i = Integer.*parseInt*(num);

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

**for**(Book bk : books){

**if**(bk.getBookID().equals(id)){

bk.setShopNum(bk.getShopNum()+i);

}

}

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

}

deleteServlet

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

**throws** ServletException, IOException {

request.setCharacterEncoding("UTF-8");

HttpSession session = request.getSession();

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

**for**(Book bk : books){

**if**(bk.getBookID().equals(request.getParameter("id"))){

bk.setShopNum(0);

}

}

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

}

**JSP**

**listBook.jsp**

<%

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

%>

<%

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

//在session中存储采购信息

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

books[0] = **new** Book("01", "JSP&Servlet", "img/1.png","img/info1.png",48);

books[1] = **new** Book("02", "Java经典实例", "img/2.png","img/info2.png",23);

books[2] = **new** Book("03", "Java核心技术", "img/3.png","img/info3.png",69);

books[3] = **new** Book("04", "深入理解JAVA7", "img/4.png","img/info4.png",53);

//存入session对象

session.setAttribute("books", books);

session.setAttribute("sum", 0);

}

%>

<body>

<%

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

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

%>

<style>

**div**{

margin: *0px 20px 10px 20px* ;

padding:*0px 10px 0px 10px*;

}

**div***:hover*{

border:*solid 3px #c40000*;

}

**div** **span**{

padding:*3px*;

font-size:*20px*;

color:*#C40000*;

display:*block*;

text-align:*center*;

}

</style>

<p>请选择采购的书籍</p>

<a href=*"order.jsp"*> <span class=*"glyphicon glyphicon-shopping-cart"*></span>查看购物车</a>

<form action=*"order.jsp"* method=*"post"*>

<%

**if**(books != **null**){

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

%>

<div style="float: *left*">

<br>

<a href=*"bookInfo.jsp?id=*<%=book.getBookID()%>*"*>

<img style="width:*150px* ;height:*200*" src=*"*<%=book.getBookImgSrc() %>*"*>

</a>

<span>

<a href=*"bookInfo?id=*<%=book.getBookID()%>*"*><%=book.getBookName() %></a></span>

<span><%=book.getBookPrice()%>¥</span>

</div>

<%}%>

<%}%>

</form>

</body>

**Shop.jsp**

<%@page import=*"com.sun.xml.internal.bind.v2.runtime.Name"*%>

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

pageEncoding=*"UTF-8"* import=*"java.util.\*"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";

%>

<!DOCTYPE html>

<html>

<head>

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

<!-- 新 Bootstrap 核心 CSS 文件 -->

<link href=*"https://cdn.bootcss.com/bootstrap/3.3.7/css/bootstrap.min.css"* rel=*"stylesheet"*>

<!-- jQuery文件。务必在bootstrap.min.js 之前引入 -->

<script src=*"https://cdn.bootcss.com/jquery/2.1.1/jquery.min.js"*></script>

<!-- 最新的 Bootstrap 核心 JavaScript 文件 -->

<script src=*"https://cdn.bootcss.com/bootstrap/3.3.7/js/bootstrap.min.js"*></script>

<title></title>

<script type=*"text/javascript"*>

$(**function**(){

$(".productNumberSetting").keyup(**function**(){

**var** num= $(".productNumberSetting").val();

num = parseInt(num);

**if**(isNaN(num))

num= 1;

**if**(num<=0)

num = 1;

$(".productNumberSetting").val(num);

});

$(".increaseNumber").click(**function**(){

**var** num= $(".productNumberSetting").val();

num++;

$(".productNumberSetting").val(num);

});

$(".decreaseNumber").click(**function**(){

**var** num= $(".productNumberSetting").val();

--num;

**if**(num<=0)

num=1;

$(".productNumberSetting").val(num);

});

});

</script>

</head>

<body>

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

**div***.productNumber*{

float: *left*;

margin:*3px 10px 5px 400px*;

position: *absolute*;

}

**span***.productNumberSettingSpan*{

border: *1px solid #999*;

display: *inline-block*;

width: *40px*;

height: *32px*;

padding-top:*7px*;

/\*上内边距 7px，把input顶下去\*/

}

**input***.productNumberSetting*{

border:*0px*;

height: *80%*;

width: *80%*;

}

**span***.updown*{

border:*1px solid #999*;

display: *block*;

width: *20px*;

height: *14px*;

text-align: *center*;

line-height: *14px*;

}

**span***.updown* **img**{

display: *inline-block*;

vertical-align:*top*;

}

**span***.updownMiddle*{

height: *4px*;

display: *block*;

}

**span***.arrow*{

display: *inline-block*;

width: *22px*;

height: *32px*;

vertical-align:*top*;

}

**div***.buyDiv* **button**{

display: *inline-block*;

height: *40px*;

width: *180px*;

}

**div***.buyDiv*{

margin: *20px auto*;

text-align: *center*;

}

**button***.buyButton*{

border: *1px solid #CCCC99*;

background-color: *white*;

text-align: *center*;

line-height: *40px*;

font-size: *16px*;

color: *#CCCC99*;

}

**button***.addCartButton*{

border: *1px solid #CCCC99*;

background-color: *#CCCC99*;

text-align: *center*;

/\*内容水平居中\*/

line-height: *40px*;

/\*内容垂直居中\*/

font-size: *16px*;

color: *white*;

}

**button***.a:hover*{

text-decoration: *none*;

}

</style>

<div class=*"allDiv"*>

<div class=*"productNumber"*>

<span>数量</span>

<span>

<span class=*"productNumberSettingSpan"*>

<input type=*"text"* value=*"1"* class=*"productNumberSetting"* name=*"num"* id=*"num"*>

</span>

<span class=*"arrow"*>

<a class=*"increaseNumber"* href=*"#nowhere"*>

<span class=*"updown"*>

+

</span>

</a>

<span class=*"updownMiddle"*> </span>

<a class=*"decreaseNumber"* href=*"#nowhere"*>

<span class=*"updown"*>

-

</span>

</a>

</span>

件</span>

</div>

<div class=*"buyDiv"*>

<a href=*"order.jsp"* class=*"buyLink"*><button class=*"buyButton"*>立即购买</button></a>

</div>

</div>

</body>

</html>

**bookInfo.jsp**

<form action=*"cart"* method=*"post"*>

<%

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

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

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

%>

<%

String imgSrc = "";

String infoImg = "";

**double** price = 0;

**for**(Book bk : books){

**if**(id.equals(bk.getBookID())){

imgSrc = bk.getBookImgSrc();

infoImg = bk.getBookInfo();

price = bk.getBookPrice();

}

}

%>

<input type=*"hidden"* value=*"*<%=id %>*"* name = *"id"*>

<div class=*"productImg"*>

<img style="width:*300px*; height:*400px*" src=*"*<%=imgSrc%>*"*>

</div>

<div class=*"productInfo"*>

<img style="height:*400px；width*:*600px*" src=*"*<%=infoImg%>*"*>

</div>

<div class=*"price"*>价格：<span><%=price%>¥</span></div>

<%@include file=*"shop.jsp"* %>

**Order.jsp**

<%

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

**double** sum = 0;

%>

<form action=*""*></form>

<table style="width:*80%*; margin:*20px*" class=*"table"*>

<tr><td><a href=*"listBook.jsp"*>返回主页面</a></td></tr>

<tr class=*"success"*>

<td>Img</td>

<td>书名</td>

<td>单价</td>

<td>数量</td>

<td>小计</td>

<td>删除</td>

</tr>

<%

**if**(books != **null**){

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

**if**(book.getShopNum() > 0){

sum += book.getTotalPrice();

%>

<tr>

<td><img style="width:*20px*" src = *"*<%=book.getBookImgSrc()%>*"*></td>

<td><%=book.getBookName() %></td>

<td><%=book.getBookPrice()%></td>

<td>

<div class=*"productNumber"*>

<span>

<span class=*"productNumberSettingSpan"*>

<input type=*"text"* value=*"*<%=book.getShopNum()%>*"* class=*"productNumberSetting"* readonly=*"readonly"*>

</span>

<span class=*"arrow"*>

<span class=*"updown increaseNumber"*>

<a href=*"addCount?id=*<%=book.getBookID()%>*"*>+</a>

</span>

<span class=*"updownMiddle"*> </span>

<span class=*"updown decreaseNumber"*>

<a href=*"minusCount?id=*<%=book.getBookID()%>*"*>-</a>

</span>

</span>件

</span>

</div>

</td>

<td><%=book.getTotalPrice()%><span> ¥</span></td>

<td><a href=*"delete?id=*<%=book.getBookID()%>*"*><span class=*"glyphicon glyphicon-trash"*></span></a></td>

</tr>

<%} %>

<%}%>

<%}%>

<tr class=*"info"*>

<td>合计</td>

<td></td>

<td></td>

<td></td>

<td><%=sum%><span> ¥</span></td>

<td><a href=*"calculate.jsp"* style="color:*#C40000*">结算</a></td>

</tr>

</table>

# 运行效果图





