**Java Web开发**

**实验五**

**作业报告**

|  |  |
| --- | --- |
| 学 院 | 计算机 |
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| 完 成 时 间 | 2019年3月-17 |

# 实验题目

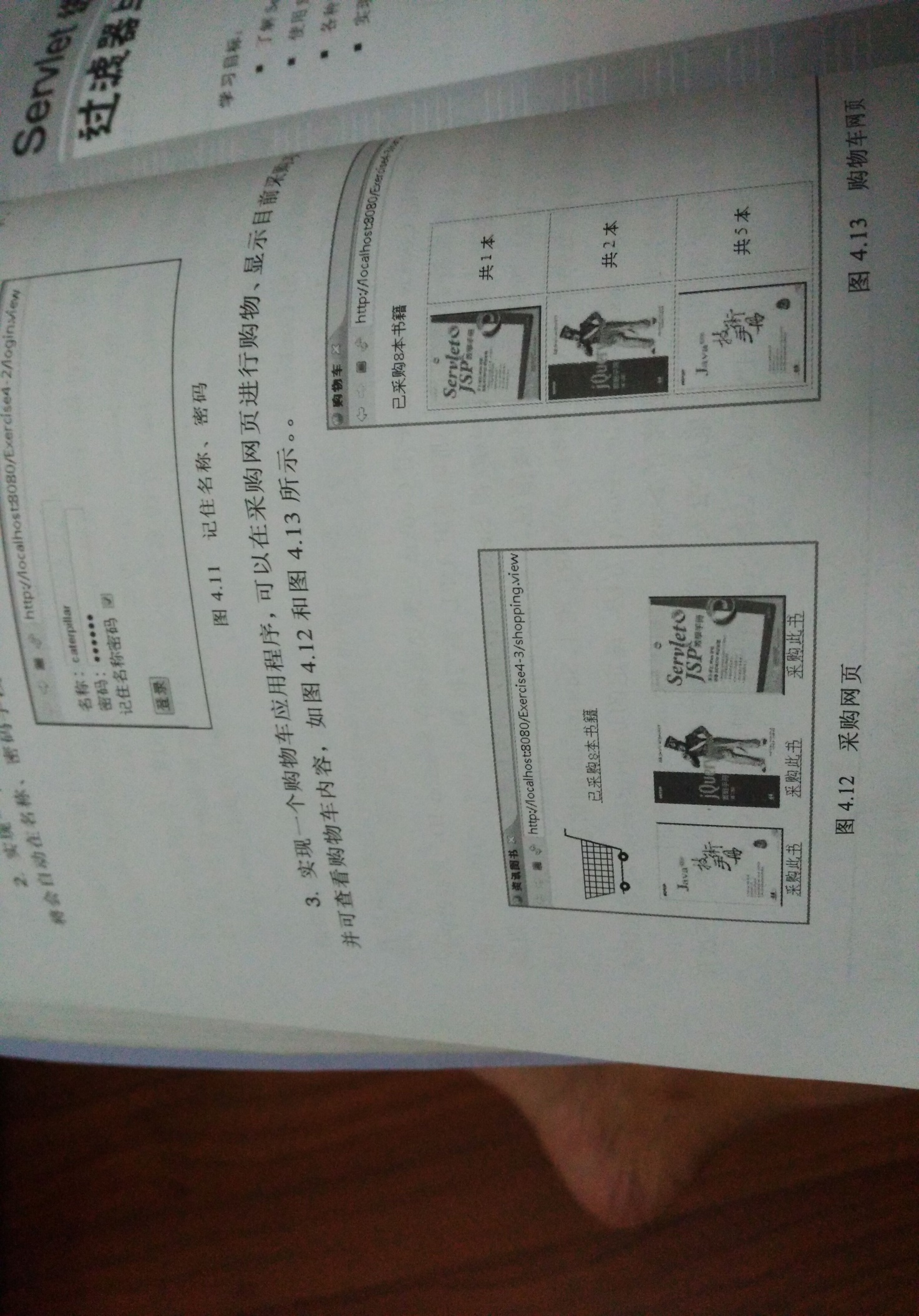
1. 练习老师在理论课上演示的购物车实例，理解购物功能如何实现，理解如何利用session对象保存购物信息，如何设计封装数据类。（请参考“第四章会话管理课上的购物车实例代码.docx”文档）；

如果上课听懂了购物车的原理或者部分理解，可以参考我的实例完成第2题，此题可忽略不写。

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，显示购物数量并查看购物车内容。（此题模版test4E，提供给大家参考。）

提示：采购此书做成超链接，并用URL重写带关键信息

* 1. Shopping.view?bookID=‘0001’，其中0001是你选中图书对应的ID号，每点击一次就在相应的购书数量上加一，并返回当前的选购页面。
  2. 除了要保存图书的ID号、书名，还要保存购书数量，所以session对象保存的信息需要考虑清楚，最好是一个对象数组或列表。



购物车的效果图

# 关键源码

登陆页面login.jsp：

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

<html>

<body><font size=*3*>

<form action=*"ShopLogin"* method=*post* name=*form*>

<p><br>登陆页面 </br>

<br>

请输入您的账号:<input type=*"text"* name=*"account"* value=*"123456"*><br><br>

请输入您的密码:<input type=*"text"* name=*"password"*><br>

<input type=*"submit"* name=*"submit"* value=*"登陆"*>

</form>

</font>

</body>

</html>

主页面main.jsp:

<%@ page import=*"cc.openhome.\*"* contentType=*"text/html;charset=utf-8"* language=*"java"* import=*"java.util.\*"*%>

<html>

<body>

<%

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

**int** count=0;

**for**(Book b:books)

{

count=count+b.getShopNum();

}

%>

<table border=*"0"*>

<thead>

<tr>

<th><img src=*"img/001.png"* width=*50* height=*50*></th>

<td><a href=*"Shop.jsp"*>已采购<%=count%>本书</a>

</td>

</tr>

<tr>

<%**for**(Book a:books) {%>

<td><img src=*"*<%=a.getPicture() %>*"* width=*100* height=*100*><br>

<p>价格:<%=a.getPrice() %></p><br>

<a href=*"count?bookID=*<%=a.getBookID()%>*"*>采购此书</a></td>

<%} %>

</tr>

</thead>

</table>

</form>

</body>

</html>

购物车页面Shop.jsp:

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

<html>

<body>

<%

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

**int** count=0;

**float** allPrice=0;

**for**(Book b:books)

{

count=count+b.getShopNum();

allPrice=allPrice+b.getPrice()\*(**float**)b.getShopNum();

}

DecimalFormat df = **new** DecimalFormat("###.##");

Double AllPrice = Double.parseDouble(df.format((**double**)allPrice));

%>

<form action=*"cart.view"* method=*post* name=*form*>

<p>已采购<%=count%>本书

<p>需支付:<%=AllPrice %>元

<table border=*"1"*>

<thead>

<%

**for**(Book book:books)

{

%>

<tr>

<th><img src=*"*<%=book.getPicture()%>*"* width=*100* height=*100*></th>

<td><p>共<%=book.getShopNum()%>本</p></td>

</tr>

<%} %>

</thead>

</table>

<br>

<a href=*"main.jsp"*>继续购买</a>

</body>

</html>

ShopLogin.java:

package cc.openhome;

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(name="ShopLogin",urlPatterns={"/ShopLogin"})

public class ShopLogin extends HttpServlet{

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

request.setCharacterEncoding("UTF-8");

HttpSession session=request.getSession();

Book[] book;

if(session.getAttribute("book")==null){

book=initBook();

session.setAttribute("book", book);

response.sendRedirect("main.jsp");

}

else

{

request.getRequestDispatcher("/main.jsp").forward(request, response);

}

}

public Book[] initBook()

{

Book[] books=new Book[3];

books[0]=new Book("A001","JAVA",22.22,"img/java.jpg");

books[1]=new Book("A002","C++",33.33,"img/c++.jpg");

books[2]=new Book("A003","数据库",44.44,"img/shujuku.png");

return books;

}

}

Count.jsp：

package cc.openhome;

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;

/\*\*

\* Servlet implementation class count

\*/

@WebServlet(name="count",urlPatterns={"/count"})

public class count extends HttpServlet {

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

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

HttpSession session=request.getSession();

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

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

for(Book b:book)

{

if(b.getBookID().equals(bookID))

{

b.setShopNum(b.getShopNum()+1);

session.setAttribute("book", book);

}

}

request.getRequestDispatcher("/main.jsp").forward(request, response);

}

}

Book.java

**package** cc.openhome;

**import** java.io.Serializable;

/\*\*

\* Servlet implementation class Chart

\*/

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

String bookID;

String bookName;

**float** price;

**int** shopNum;

String picture;

**int** count;

**public** Book(String id,String name,**double** pri,String pic)

{

**this**.bookID=id;

**this**.bookName=name;

**this**.price=(**float**)pri;

**this**.shopNum=0;

**this**.picture=pic;

}

**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** **float** getPrice()

{

**return** price;

}

**public** **void** setPrice(**float** price)

{

**this**.price=price;

}

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

{

**return** shopNum;

}

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

{

**this**.shopNum=shopNum;

}

**public** String getPicture()

{

**return** picture;

}

**public** **void** setPicture(String picture)

{

**this**.picture=picture;

}

}

# 运行效果图

