实验五

* 此实验包括:

两个Servlet分别为：**ShoppingServlet.java** 和 **cart.java**

一个JSP文件：**shopping.jsp**

一个Javabeen文件：**Book.java**

* 使用了HttpSession , URL重写 , 请求转发 ：
  1. HttpSession:在servlet中若要获取cookie里session的信息时，需要声明和初始化一个HttpSession对象。
  2. URL重写：URL重写时GET请求参数的应用，某些信息以超链接来传递参数，然后Servlet用GET方法获取参数。在Servlet中可以直接使用request.getparameter(“参数名”)来获取。

例如本实验中的<a href='shopping.view?id="+book.getBookId()+"'>采购此书</a>

* 1. 请求转发：request.getRequestDispatcher(“URL”).forward(request, response)

以下网站有对重定向和请求转发的详细解释：

<https://www.cnblogs.com/chenkeyu/p/7230714.html>

* 相关详细代码：

**Servlet:**

ShoppingServelet.java

package com.shopping;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class ShoppingServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

HttpSession session = request.getSession(); //声明初始化HttpSession

Object sum = session.getAttribute("sum"); //获取总书籍

Book[] bookList=(Book[])session.getAttribute("bookList"); //获取session属性,书籍信息bookList

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

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

if(bookList[i].getBookId().equals(id)){ //以书籍ID来选取书籍

bookList[i].addNum(); //相应书籍采购数增加

session.setAttribute("sum",Integer.parseInt(sum.toString())+1); //更改session属性,书本总数

request.getRequestDispatcher("shopping.jsp").forward(request, response); //重定向到shopping.jsp

}

}

}

}

Cart.java

package com.shopping;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class cart extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

//参考网站:http://www.manongjc.com/article/32048.html

//下面语句解决out.println()中文乱码问题,作用为:告知客户端使用的编码方式为"UTF-8"

response.setHeader("Content-Type", "text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

HttpSession session = request.getSession();

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

out.println("<HTML>");

out.println(" <HEAD><TITLE>购物车</TITLE></HEAD>");

out.println(" <BODY>");

out.println("<h1> 已采购"+session.getAttribute("sum")+" 本书籍 </h1>");

//遍历打印购物车信息

out.println("<table>");

for(Book book:bookList){

out.println("<tr align='center'>");

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

out.println("<td> 共"+book.getNum()+"本</td>");

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

}

out.println("<tr><td></td><td><a href='shopping.jsp'>返回主页</a></td></tr>");

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

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

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

out.flush();

out.close();

}

}

**JSP:**

Shopping.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>

<%

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

Book[] BookList = **new** Book[2];

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);

//使用HttpSession存储书籍信息

session.setAttribute("bookList", BookList);

session.setAttribute("sum",0);

}

%>

<head>

<base href=*"*<%=basePath%>*"*>

<title>My JSP 'shopping.jsp' starting page</title>

<!--

<link rel="stylesheet" type="text/css" href="styles.css">

-->

</head>

<body>

<!-- 将Book类包括进来 -->

<%@ page import=*"com.shopping.Book"* %>

<a href=*"cart.view"*>已采购<%=session.getAttribute("sum") %></a><br>

<table >

<%

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

//遍历打印书籍图片信息

out.println("<tr align='center'>");

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

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

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

}

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

//便利打印书籍购买超链接信息

out.println("<tr align='center'>");

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

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

}

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

%>

</table>

</body>

</html>

**Javabeen:**

Book.java

**package** com.shopping;

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

**private** String bookId;

**private** String bookJpg;

**private** String bookName;

**private** **int** num = 0;

**public** Book(String bookId, String bookName, String bookJpg, **int** num){

setBookId(bookId);

setBookName(bookName);

setBookJpg(bookJpg);

setNum(num);

}

**private** **void** setBookId(String id){bookId = id;}

**private** **void** setBookName(String Name){bookName = Name;}

**private** **void** setBookJpg(String jpg){bookJpg = jpg;}

**private** **void** setNum(**int** num){**this**.num = num;}

**public** String getBookId(){ **return** bookId;}

**public** String getBookName(){ **return** bookName;}

**public** String getBookJpg(){ **return** bookJpg;}

**public** **int** getNum(){ **return** num;}

**public** **void** addNum(){ num++;}

}

* 相关页面效果图：

  