**Java Web开发**

**实验八**

**作业报告**

|  |  |
| --- | --- |
| 学 院 | 计算机 |
| 所在系 班 级 | 2017软件工程系06班 |
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| 完 成 时 间 | 2019年5月 |

# 实验题目

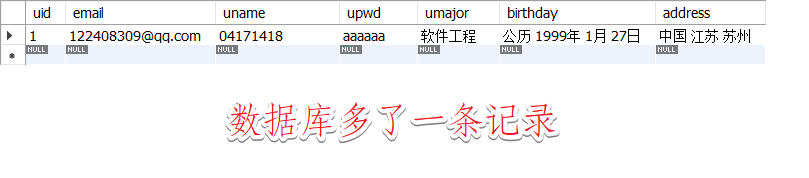
1、（必做）请用模型2MVC模式完成1个功能，功能自选，例如：登录、注册、发帖、计算税收等；

功能：注册

界面：







代码：

前端代码就不放全部了

register.html



RegisterServlet.java:

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

**throws** ServletException, IOException {

response.setCharacterEncoding("utf-8");

request.setCharacterEncoding("UTF-8");

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

PrintWriter out = response.getWriter();

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

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

String password2 = request.getParameter("password2");

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

Part part = request.getPart("photo");

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

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

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

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

String birthday = birthdir + " " + year + " " + month + " " + day;

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

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

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

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

String D = address + " " + province + " " + city;

List<String> error = **new** ArrayList<String>();

UserService us=**new** UserServiceImpl();

**if**(us.checkEmail(email)) {

error.add("邮箱格式不对！");

}

**if** (us.checkName(name)) {

error.add("用户名已存在");

}

**if** (us.isInvalidPasswd(password, password2)) {

error.add("密码不对！");

}

String resultPage = FAIL;

**if** (!error.isEmpty()) {

request.setAttribute("error", error);

} **else** {

resultPage = SUCCESS;

us.createData(email, name, password, major, birthday, D,part);

}

request.getRequestDispatcher(resultPage).forward(request, response);

}

UserService.java:

**public** **interface** UserService {

//查询是否有用户

User findUser(String name, String password, String major);

**boolean** checkEmail(String email);

**boolean** checkName(String name);

**boolean** isInvalidPasswd(String password, String password2);

**void** createData(String email, String name, String password, String major, String birthday, String D,Part part);

}

UserServiceImpl.java:

**public** **class** UserServiceImpl **implements** UserService {

@Override

**public** User findUser(String name, String password, String major) {

UserDao ud=**new** UserDaoImpl();

**return** ud.selectOne(name,password,major);

}

@Override

**public** **boolean** checkEmail(String email) {

**if** (email == **null** || !email.matches("^[\_a-z0-9-]+([.]" + "[\_a-z0-9-]+)\*@[a-z0-9-]+([.][a-z0-9-]+)\*$")) {

**return** **true**;

} **else** {

**return** **false**;

}

}

@Override

**public** **boolean** checkName(String name) {

UserDao ud=**new** UserDaoImpl();

**return** ud.haveName(name);

}

@Override

**public** **boolean** isInvalidPasswd(String password, String password2) {

**return** password == **null** || password.length() < 6 || password.length() > 8 || !password.equals(password2);

}

@Override

**public** **void** createData(String email, String name, String password, String major, String birthday,

String d, Part part) {

UserDao ud=**new** UserDaoImpl();

ud.createData(email,name,password,major,birthday,d);

}

}

UserDao.java:

**public** **interface** UserDao {

User selectOne(String name, String password, String major);

**boolean** haveName(String name);

**void** createData(String email,String name, String password,String major, String birthday, String d);

}

UserDaoImpl.java:

**public** **class** UserDaoImpl **implements** UserDao{

@Override

**public** User selectOne(String name, String password, String major) {

User user=**null**;

String sql = **null**;

sql = "select \* from usertest where uname=? and upwd=? and umajor=?";

List<User> list=**new** DBUtils<User>().executeQuary(sql, "school.entity.User", name,password,major);

**if**(!list.isEmpty()) {

user=list.get(0);

}**else** {

user=**null**;

}

**return** user;

}

@Override

**public** **boolean** haveName(String name) {

String sql="select \* from usertest where uname=?";

List<User> list =**new** DBUtils<User>().executeQuary(sql, "school.entity.User", name);

**if**(list.isEmpty()) {

**return** **false**;

}**else** {

**return** **true**;

}

}

@Override

**public** **void** createData(String email,String name, String password,String major,String birthday,String D) {

String sql="insert into usertest (email,uname,upwd,umajor,birthday,address) values(?,?,?,?,?,?)";

DBUtils.*executeDML*(sql, email,name,password,major,birthday,D);

}

}

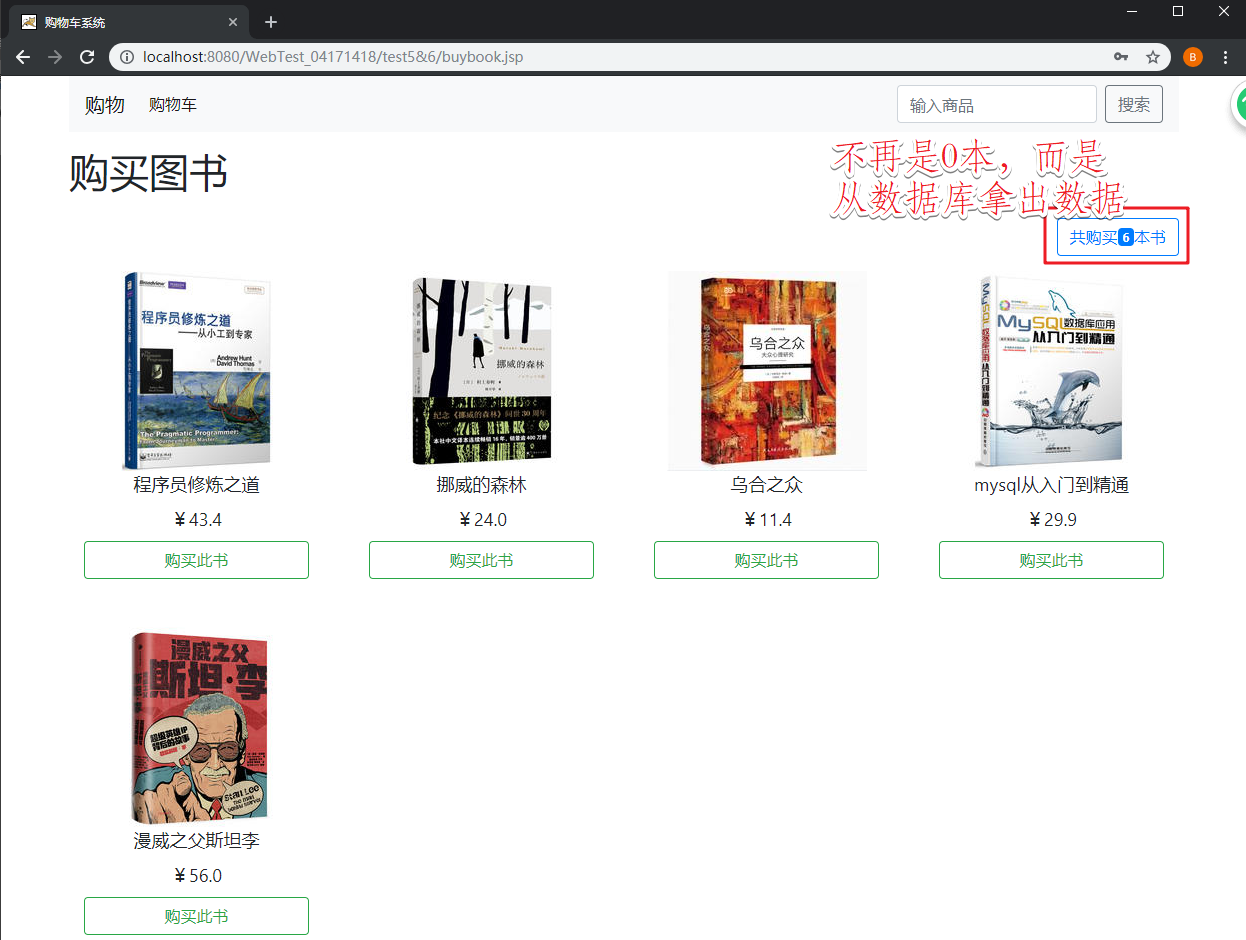
下面还有选做

选做：

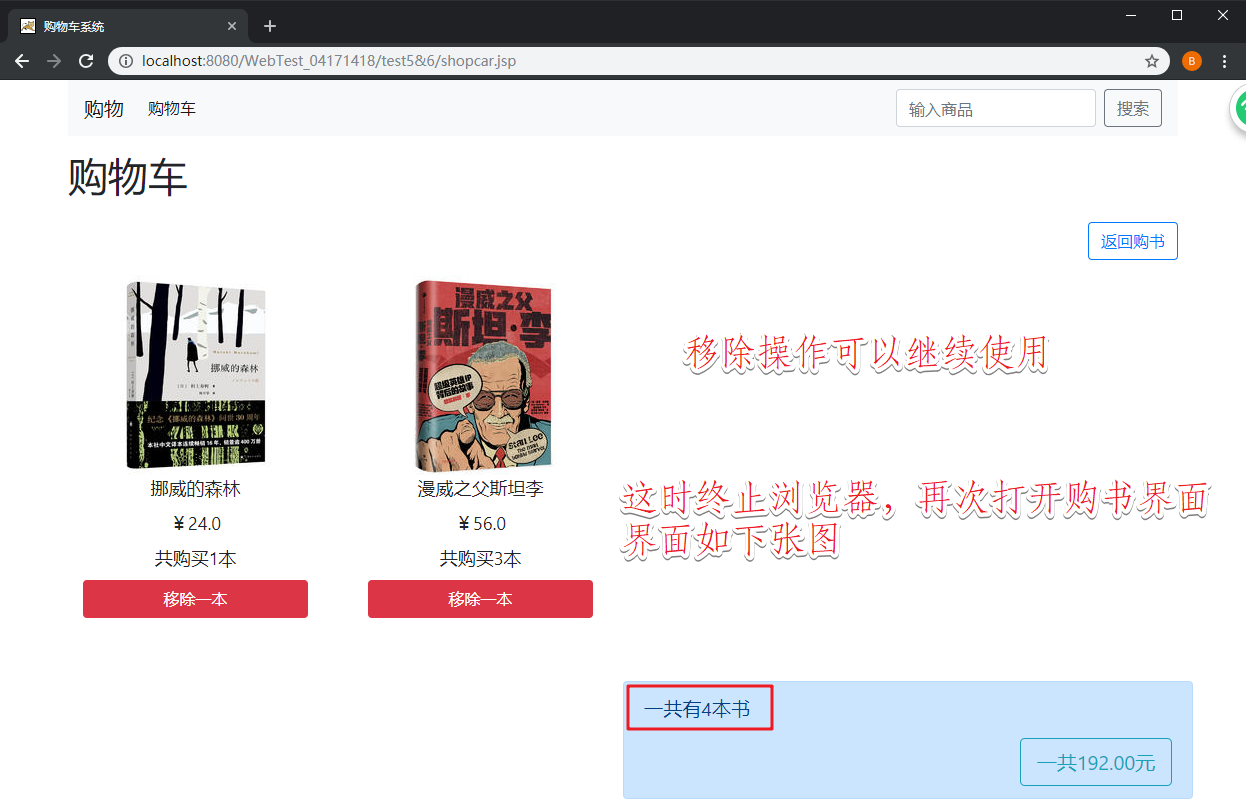
继续完善网上购图书程序，采用MVC模式，完成增加计算商品总价及添加商品数量等功能，用JavaBean改写，其中购物车和商品价格等内容都用JavaBean实现，JSP页面实现增加、删除所选图书，显示所选图书及其价格的功能。尽量用EL表达式或JSTL标签库，少用程序片及表达式。

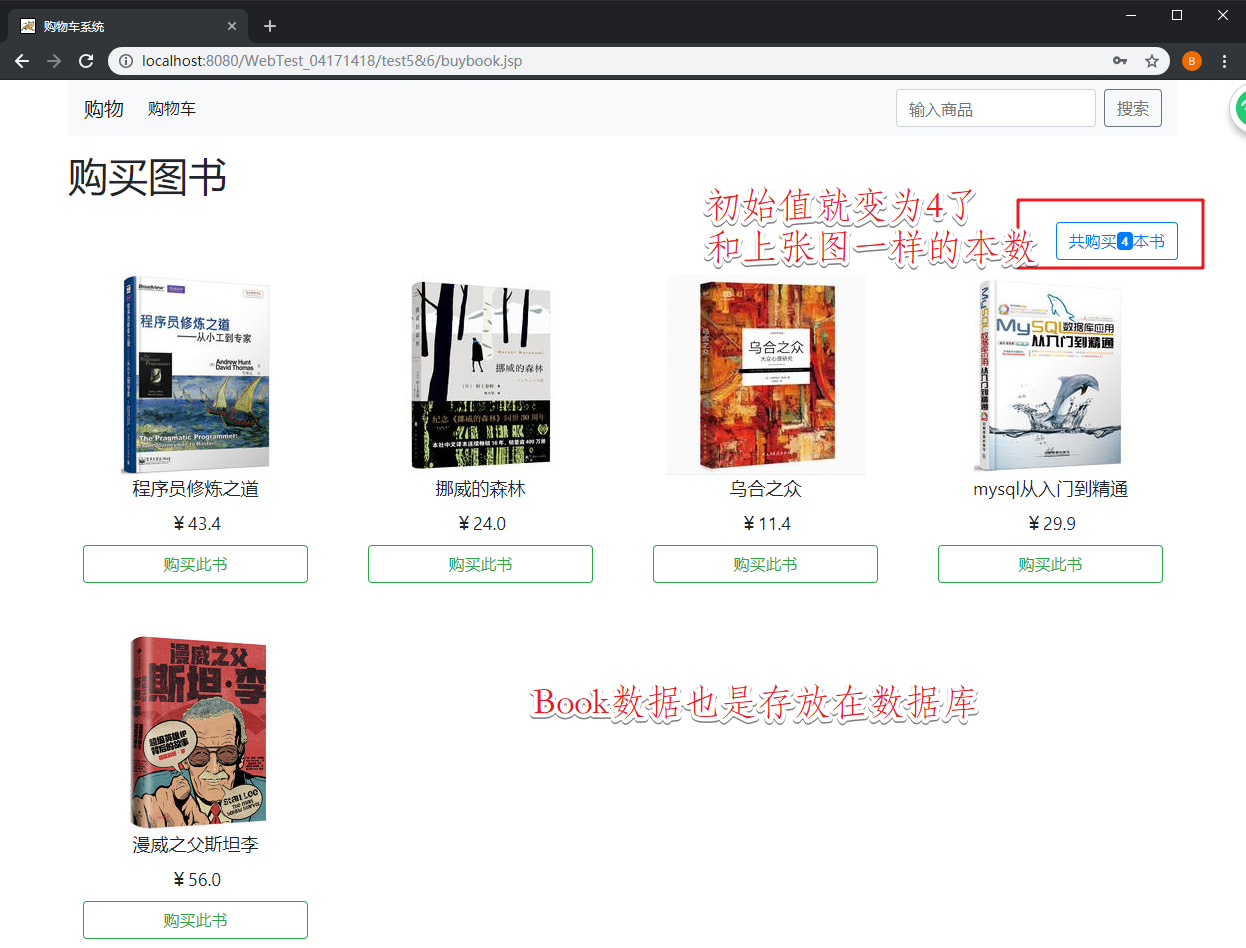
界面：

：

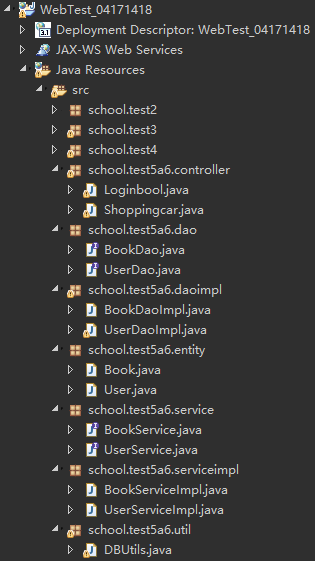
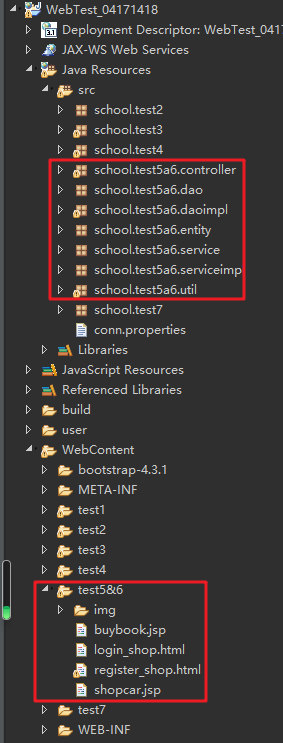


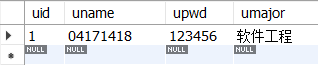
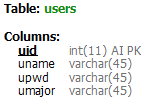


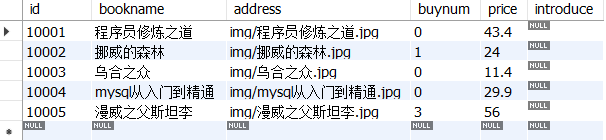
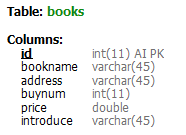




代码：







buybook.jsp

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

pageEncoding=*"UTF-8"* import=*"school.test5a6.\*"* %>

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

<!DOCTYPE html>

<html lang=*"zh-CN"*>

<head>

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<link rel=*"stylesheet"* type=*"text/css"* href=*"../bootstrap-4.3.1/css/bootstrap.min.css"*>

<script src=*"../bootstrap-4.3.1/js/jquery-3.3.1.slim.min.js"*></script>

<script src=*"../bootstrap-4.3.1/js/popper.js/1.14.7/umd/popper.min.js"*></script>

<script src=*"../bootstrap-4.3.1/js/bootstrap.min.js"*></script>

<title>购物车系统</title>

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

*.row*{

margin-top: *15px*;

margin-bottom: *15px*;

}

</style>

</head>

<body>

<div class=*"container"*>

<nav class=*"navbar navbar-expand-lg navbar-light bg-light"*>

<a class=*"navbar-brand"* href=*"buybook.jsp"*>购物</a>

<button class=*"navbar-toggler"* type=*"button"* data-toggle=*"collapse"* data-target=*"#navbarSupportedContent"* aria-controls=*"navbarSupportedContent"* aria-expanded=*"false"* aria-label=*"Toggle navigation"*>

<span class=*"navbar-toggler-icon"*></span>

</button>

<div class=*"collapse navbar-collapse"* id=*"navbarSupportedContent"*>

<ul class=*"navbar-nav mr-auto"*>

<li class=*"nav-item active"*>

<a class=*"nav-link"* href=*"shopcar.jsp"*>购物车<span class=*"sr-only"*>(current)</span></a>

</li>

</ul>

<form class=*"form-inline my-2 my-lg-0"*>

<input class=*"form-control mr-sm-2"* type=*"search"* placeholder=*"输入商品"* aria-label=*"Search"*>

<button class=*"btn btn-outline-secondary my-2 my-sm-0"* type=*"submit"*>搜索</button>

</form>

</div>

</nav>

<div class=*"row"*>

<h1 class=*"col-md-6"*>购买图书</h1>

</div>

<div class=*"row "*>

<a href=*"shopcar.jsp"* class=*"col-12"*><button id=*"0"* name=*"shoppingcar"* class=*"btn btn-outline-primary float-right"*>共购买<span class=*"badge badge-primary"*>${sessionScope.total}</span>本书</button></a>

</div>

<div class=*"row"*>

**<c:forEach items="${sessionScope.bookList}" var="bl">**

**<div class="col-md-3 text-center">**

**<c:forEach begin="0" end="4" varStatus="i">**

**<div class="col-md-12 text-center">**

**<c:choose>**

**<c:when test="${i.index==0}"><img src="${bl.address}"></c:when>**

**<c:when test="${i.index==1}"><label style="font-size: large;">${bl.bookname}</label></c:when>**

**<c:when test="${i.index==2}"><label style="font-size: large;">￥${bl.price}</label></c:when>**

**<c:when test="${i.index==3}">**

**<a style="text-decoration:none" href="Shoppingcar.do?action=buy&id=${bl.id}"><button name="${bl.id}" id="${bl.id}" class="btn btn-outline-success btn-block">购买此书</button></a><br><br>**

**</c:when>**

**</c:choose>**

**</div>**

**</c:forEach>**

**</div>**

**</c:forEach>**

</div>

</div>

</body>

</html>

shopcar.jsp

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

pageEncoding=*"UTF-8"* import=*"school.test5a6.\*"* import=*"javax.servlet.http.HttpSession"*

import=*"java.text.DecimalFormat"*%>

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

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

<!DOCTYPE html>

<html lang=*"zh-CN"*>

<head>

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1, shrink-to-fit=no"*>

<link rel=*"stylesheet"* type=*"text/css"* href=*"../bootstrap-4.3.1/css/bootstrap.min.css"*>

<script src=*"../bootstrap-4.3.1/js/jquery-3.3.1.slim.min.js"*></script>

<script src=*"../bootstrap-4.3.1/js/popper.js/1.14.7/umd/popper.min.js"*></script>

<script src=*"../bootstrap-4.3.1/js/bootstrap.min.js"*></script>

<title>购物车系统</title>

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

*.row*{

margin-top: *15px*;

margin-bottom: *15px*;

}

</style>

</head>

<body>

<div class=*"container"*>

<nav class=*"navbar navbar-expand-lg navbar-light bg-light"*>

<a class=*"navbar-brand"* href=*"buybook.jsp"*>购物</a>

<button class=*"navbar-toggler"* type=*"button"* data-toggle=*"collapse"* data-target=*"#navbarSupportedContent"* aria-controls=*"navbarSupportedContent"* aria-expanded=*"false"* aria-label=*"Toggle navigation"*>

<span class=*"navbar-toggler-icon"*></span>

</button>

<div class=*"collapse navbar-collapse"* id=*"navbarSupportedContent"*>

<ul class=*"navbar-nav mr-auto"*>

<li class=*"nav-item active"*>

<a class=*"nav-link"* href=*"shopcar.jsp"*>购物车<span class=*"sr-only"*>(current)</span></a>

</li>

</ul>

<form class=*"form-inline my-2 my-lg-0"*>

<input class=*"form-control mr-sm-2"* type=*"search"* placeholder=*"输入商品"* aria-label=*"Search"*>

<button class=*"btn btn-outline-secondary my-2 my-sm-0"* type=*"submit"*>搜索</button>

</form>

</div>

</nav>

<div class=*"row"*>

<h1 class=*"col-md-6"*>购物车</h1>

</div>

<div class=*"row "*>

<a href=*"buybook.jsp"* class=*"col-12"*><button id=*"0"* name=*"shoppingcar"* class=*"btn btn-outline-primary float-right"*>返回购书</button></a>

</div>

<div class=*"row"*>

**<c:forEach items=*"*${sessionScope.bookList}*"* var=*"bl"*>**

**<c:if test=*"*${bl.buynum!=0}*"*>**

**<div class=*"col-md-3 text-center"*>**

**<c:forEach begin=*"0"* end=*"5"* varStatus=*"i"*>**

**<div class=*"col-md-12 text-center"*>**

**<c:if test=*"*${i.index==0}*"*><img src=*"*${bl.address}*"*></c:if>**

**<c:if test=*"*${i.index==1}*"*><label style="font-size: *large*;">${bl.bookname}</label></c:if>**

**<c:if test=*"*${i.index==2}*"*><label style="font-size: *large*;">￥${bl.price}</label></c:if>**

**<c:if test=*"*${i.index==3}*"*><label style="font-size: *large*;">共购买${bl.buynum}本</label></c:if>**

**<c:if test=*"*${i.index==4}*"*>**

**<a style="text-decoration:*none*" href=*"Shoppingcar.do?action=remove&id=*${bl.id}*"*><button name=*"*${bl.id}*"* id=*"*${bl.id}*"* class=*"btn btn-block btn-danger"*>移除一本</button></a><br><br>**

**</c:if>**

**</div>**

**</c:forEach>**

**</div>**

**</c:if>**

**</c:forEach>**

</div>

<div class=*"row"*>

<div class=*"alert-primary alert offset-6 col-sm-6"* role=*"alert"*>

<p style="font-size: *larger*;">一共有${sessionScope.total}本书</p>

<button class=*"btn btn-lg float-right btn-outline-info"*>一共**<fmt:formatNumber value=*"*${sessionScope.money}*"* pattern=*"0.00"*></fmt:formatNumber>**元</button>

</div>

</div>

</div>

</body>

</html>

Loginbool.java

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

**throws** ServletException, IOException {

response.setCharacterEncoding("utf-8");

request.setCharacterEncoding("UTF-8");

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

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

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

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

UserService us=**new** UserServiceImpl();

User u=us.findUser(name,password,major);

**if**(u==**null**) {

request.getRequestDispatcher(FAIL).forward(request, response);

}**else** {

HttpSession session=request.getSession();

BookService bs=**new** BookServiceImpl();

List<Book> bookList=bs.allbooks();

**int** total=bs.getinittotal(bookList);

**double** money=bs.getinitmoney(bookList);

session.setAttribute("bookList", bookList);

session.setAttribute("total", total);

session.setAttribute("money", money);

response.sendRedirect("buybook.jsp");

}

}

Shoppingcar.java

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

response.setCharacterEncoding("utf-8");

request.setCharacterEncoding("UTF-8");

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

String action=request.getParameter("action"); //获取action参数值

**if**(action==**null**)

action="";

**if**(action.equals("buy")) //触发了“购买”请求

buy(request,response); //调用buy()方法实现商品的购买

**if**(action.equals("remove")) //触发了“移除”请求

remove(request,response); //调用remove()方法实现商品的移除

}

**private** **void** buy(HttpServletRequest request, HttpServletResponse response) **throws** IOException {

HttpSession session=request.getSession();

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

List<Book> books=(List<Book>) session.getAttribute("bookList");

**int** total=(**int**)session.getAttribute("total");

**double** money=(**double**)session.getAttribute("money");

**for**(**int** i=0;i<books.size();i++) {

**if**(books.get(i).getId().equals(Integer.*parseInt*(Id))) {

books.get(i).setBuynum(books.get(i).getBuynum()+1);

total++;

money+=books.get(i).getPrice();

}

}

session.setAttribute("bookList", books);

session.setAttribute("total", total);

session.setAttribute("money", money);

BookService bs=**new** BookServiceImpl();

bs.updateBooksBuynum(books);

response.sendRedirect("buybook.jsp");

}

**private** **void** remove(HttpServletRequest request, HttpServletResponse response) **throws** IOException {

HttpSession session=request.getSession();

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

List<Book> books=(List<Book>) session.getAttribute("bookList");

**int** total=(**int**)session.getAttribute("total");

**double** money=(**double**)session.getAttribute("money");

**for**(**int** i=0;i<books.size();i++) {

**if**(books.get(i).getId().equals(Integer.*parseInt*(Id))) {

books.get(i).setBuynum(books.get(i).getBuynum()-1);

total--;

money-=books.get(i).getPrice();

}

}

session.setAttribute("bookList", books);

session.setAttribute("total", total);

session.setAttribute("money", money);

BookService bs=**new** BookServiceImpl();

bs.updateBooksBuynum(books);

response.sendRedirect("shopcar.jsp");

}

Book.java

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

**public** Integer id;

**public** String bookname;

**public** String address;

**public** Integer buynum;

**public** Double price;

**public** String introduce;

**public** Book() {

**super**();

}

**public** Book(Integer id, String bookname, String address, Integer buynum, Double price, String introduce) {

**super**();

**this**.id = id;

**this**.bookname = bookname;

**this**.address = address;

**this**.buynum = buynum;

**this**.price = price;

**this**.introduce = introduce;

}

…………

}

BookDao.java

**public** **interface** BookDao {

List<Book> allbooks();

**void** updateBooksBuynum(Integer buynum , Integer id);

List<Book> getBooksBuynum(Integer id);

List<Book> getBooksPrice(Integer id);

}

BookDaoImpl.java

**public** **class** BookDaoImpl **implements** BookDao{

@Override

**public** List<Book> allbooks() {

String sql=**null**;

sql="select \* from books";

List<Book> list=**new** DBUtils<Book>().executeQuary(sql, "school.test5a6.entity.Book");

**return** list;

}

@Override

**public** **void** updateBooksBuynum(Integer buynum , Integer id) {

String sql=**null**;

sql="update books set buynum=? where id=?";

DBUtils.*executeDML*(sql, buynum,id);

}

@Override

**public** List<Book> getBooksBuynum(Integer id) {

String sql=**null**;

sql="select buynum from books where id=?";

List<Book> list=**new** DBUtils<Book>().executeQuary(sql, "school.test5a6.entity.Book",id);

**return** list;

}

@Override

**public** List<Book> getBooksPrice(Integer id) {

String sql=**null**;

sql="select price from books where id=?";

List<Book> list=**new** DBUtils<Book>().executeQuary(sql, "school.test5a6.entity.Book",id);

**return** list;

}

}

BookService.java

**public** **interface** BookService {

List<Book> allbooks();

**void** updateBooksBuynum(List<Book> books);

**int** getinittotal(List<Book> bookList);

**double** getinitmoney(List<Book> bookList);

}

BookServiceImpl.java

**public** **class** BookServiceImpl **implements** BookService {

@Override

**public** List<Book> allbooks() {

BookDao bd=**new** BookDaoImpl();

**return** bd.allbooks();

}

@Override

**public** **void** updateBooksBuynum(List<Book> books) {

BookDao bd=**new** BookDaoImpl();

**for**(**int** i=0;i<books.size();i++) {

bd.updateBooksBuynum(books.get(i).buynum , books.get(i).id);

}

}

@Override

**public** **int** getinittotal(List<Book> bookList) {

BookDao bd=**new** BookDaoImpl();

**int** total=0;

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

total+=bd.getBooksBuynum(bookList.get(i).id).get(0).buynum;

}

**return** total;

}

@Override

**public** **double** getinitmoney(List<Book> bookList) {

BookDao bd=**new** BookDaoImpl();

**double** money=0;

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

money+=(bd.getBooksBuynum(bookList.get(i).id).get(0).buynum)\*(bd.getBooksPrice(bookList.get(i).id).get(0).price);

}

**return** money;

}

}