**Java Web开发**

**实验八**

**作业报告**

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| --- | --- |
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| 完 成 时 间 | 2019年5月-4 |

# 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；

2、（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。

购物车提示：javaBean：

Book.java：存储一本图书的信息

BookList.java：一条记录，用于记录订单的一条信息(可省略)

CartBook.java：购物车，用于存储用户所有购物信息

JSP：

index.jsp：购图书首页

addbook.jsp:添加一条图书信息至购物车。

delbook.jsp:删除一条图书信息至购物车

showCart.jsp:显示购物车的信息

# 分析与设计

先整个密码验证，再整个增删记录

# 关键源码（部分）

Login.jsp

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

<html>

<head>

<title>登录网页</title>

</head>

<body>

<form action=*"login.view"* method=*"get"* name=*form*>

id：<input type=*"text"* name=*"uid"*><br>

pwd：<input type=*"password"* name=*"pwd"*><br>

<input type=*"submit"* value=*"登录"*>

</form>

</body>

</html>

Fail.jsp

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

<html>

<head>

<title>登录网页</title>

</head>

<body>

您密码错误<br>

<a href=*"login.jsp"*>首页</a>

</body>

</html>

Bookshop.jsp

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

pageEncoding=*"UTF-8"*%>

<%@ page import=*"java.io.\*,java.util.\*,java.sql.\*"*%>

<%@ page import=*"javax.servlet.http.\*,javax.servlet.\*"* %>

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

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

<jsp:useBean id=*"mathbean"* class=*"mytest5.mathbean"* scope=*"page"*/>

<html>

<head>

<title>购物网页</title>

</head>

<body>

${sessionScope.uid}您好<br>

<a href=*""*>已采购<jsp:getProperty property=*"sum"* name=*"mathbean"*/>本书</a>

总价为<jsp:getProperty property=*"price"* name=*"mathbean"*/><br>

<sql:setDataSource var=*"snapshot"* driver=*"com.mysql.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/book?useUnicode=true&characterEncoding=utf-8&&serverTimezone=GMT%2B8"*

user=*"root"* password=*"hdkhdk2014"*/>

<sql:query dataSource=*"*${snapshot}*"* var=*"result"*>

SELECT \* from goods;

</sql:query>

<table border=*"1"* width=*"100%"*>

<tr>

<th>封面</th>

<th>书名</th>

<th>价格</th>

<th>购买数量</th>

<th>购买</th>

<th>取消购买</th>

</tr>

<c:forEach var=*"row"* items=*"*${result.rows}*"*>

<tr>

<th><img src=*"*${row.img}*"*></th>

<th>${row.name}</th>

<th>${row.price}</th>

<th>${row.num}</th>

<th><a href=*"buy.do?id=*${row.id}*"*>购买此书</a></th>

<th><a href=*"remove.do?id=*${row.id}*"*>不购买此书</a></th>

</tr>

</c:forEach>

</body>

</html>

Mathbean.java

package mytest5;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class mathbean {

int sum;

double price;

static final String JDBC\_DRIVER = "com.mysql.cj.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost:3306/book?serverTimezone=GMT%2B8";

// 数据库的用户名与密码，需要根据自己的设置

static final String USER = "root";

static final String PASS = "hdkhdk2014";

public double getSum() {

Connection conn = null;

Statement stmt = null;

try {

Class.forName("com.mysql.cj.jdbc.Driver");

} catch (ClassNotFoundException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

stmt = conn.createStatement();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

String sql;

sql = "SELECT id,num,price FROM goods";

ResultSet rs = null;

try {

rs = stmt.executeQuery(sql);

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

try {

while (rs.next()) {

// 通过字段检索

int num = rs.getInt("num");

sum = sum + num;

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

while (rs.next()) {

double p = rs.getInt("num") \* rs.getFloat("price");

price = price + p;

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

return sum;

}

public void setSum(int sum) {

this.sum = sum;

}

public double getPrice() {

Connection conn = null;

Statement stmt = null;

try {

Class.forName("com.mysql.cj.jdbc.Driver");

} catch (ClassNotFoundException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

stmt = conn.createStatement();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

String sql;

sql = "SELECT id,num,price FROM goods";

ResultSet rs = null;

try {

rs = stmt.executeQuery(sql);

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

try {

while (rs.next()) {

double p = rs.getInt("num") \* rs.getFloat("price");

price = price + p;

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

return price;

}

public void setPrice(double price) {

this.price = price;

}

public mathbean() {

}

}

Remove.java

package mytest5;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet(urlPatterns = { "/mytest5/remove.do" })

public class remove extends HttpServlet {

static final String JDBC\_DRIVER = "com.mysql.cj.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost:3306/book?serverTimezone=GMT%2B8";

// 数据库的用户名与密码，需要根据自己的设置

static final String USER = "root";

static final String PASS = "hdkhdk2014";

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

// TODO Auto-generated method stub

doPost(req, resp);

}

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

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

Connection conn = null;

Statement stmt = null;

System.out.println("到了");

System.out.println();

try {

Class.forName("com.mysql.cj.jdbc.Driver");

} catch (ClassNotFoundException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

try {

stmt = conn.createStatement();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

String sql = null;

if (id.equals("0001")) {

try {

sql = "UPDATE `book`.`goods` SET `num` = `num`-1 WHERE (`id` = '0001');";

int m = stmt.executeUpdate(sql);

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

}

if (id.equals("0002")) {

try {

sql = "UPDATE `book`.`goods` SET `num` = `num`-1 WHERE (`id` = '0002');";

int m = stmt.executeUpdate(sql);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

if (id.equals("0003")) {

try {

sql = "UPDATE `book`.`goods` SET `num` = `num`-1 WHERE (`id` = '0003');";

int m = stmt.executeUpdate(sql);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

resp.sendRedirect("bookshop.jsp");

}

}

Login.java

package mytest5;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

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(urlPatterns = { "/mytest5/login.view" })

public class login extends HttpServlet {

static final String JDBC\_DRIVER = "com.mysql.cj.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost:3306/book?serverTimezone=GMT%2B8";

// 数据库的用户名与密码，需要根据自己的设置

static final String USER = "root";

static final String PASS = "hdkhdk2014";

String home = "bookshop.jsp";

String fail = "fail.jsp";

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

doPost(req, resp);

}

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

HttpSession session = req.getSession();

Connection conn = null;

Statement stmt = null;

// 注册 JDBC 驱动

try {

Class.forName("com.mysql.cj.jdbc.Driver");

} catch (ClassNotFoundException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

// 打开链接

System.out.println("连接数据库...");

try {

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

// 执行查询

System.out.println(" 实例化Statement对象...");

try {

stmt = conn.createStatement();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

String sql;

sql = "SELECT id, pwd FROM s";

ResultSet rs = null;

try {

rs = stmt.executeQuery(sql);

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

req.setCharacterEncoding("utf-8");

String uid = req.getParameter("uid");

String password = req.getParameter("pwd");

try {

rs.next();

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

try {

if (uid.equals(rs.getString("id")) && password.equals(rs.getString("pwd"))) {

session.setAttribute("uid", uid);

req.getRequestDispatcher(home).forward(req, resp);

} else {

resp.sendRedirect(fail);

}

} catch (SQLException e) {

// TODO Auto-generated catch block

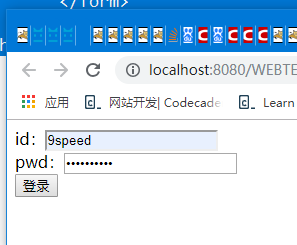
e.printStackTrace();

}

}

}

# 运行效果图





# 收获与问题

连数据库后便轻松多了，不用整那些数据类乱七八糟的变量名