**天津理工大学**

**计算机科学与工程学院**

**实验报告**

**20 14 至 20 15 学年 第 一 学期**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **课程名称** | **J2EE程序设计** | | | | | | |
| **学号** | **20175228** | | **学生姓名** | | **韩金泷** | **年级** | **2017级** |
| **专业** | **计算机科学与技术** | | **教学班号** | | **1班** | **实验地点** |  |
| **实验时间** | **2020 年 4 月 22 日 第一节 至 第二节** | | | | | | |
| **主讲教师** | **董玉涛** | | | | | | |
| **辅导教师** | **无** | | | | | | |
| **实验（ 一 ）** | | **实验名称** | | 用户登录处理Web程序 | | | |
| **软件环境** | | A、 实现语言  J2EE  B、环境要求：  JDK1.8  MariaDB 10 | | | | | |
| **硬件环境** | | Windows 10 | | | | | |
| **实验目的** | | | | | | | |
| 制作一个简单的用户登录处理Web程序。  在登录页面中输入正确的用户名、密码、确认密码则可以正常登录，并自动跳转到欢迎页面，并且在欢迎页面中显示当前所有已经登录的用户名列表。  数据库中用户名唯一。  登录错误则自动跳转回到登录页面，并在登录页面中提示"登录错误"。  数据库字段及内容自行设计，页面显示方式自行设计。  提交内容为Maven工程、数据库脚本文件(logindb.sql)以及针对本程序的使用说明简述(readme.txt) | | | | | | | |
| **实验内容（应包括实验题目、实验要求、实验任务等）** | | | | | | | |

**附录（可包括源程序清单或其它说明）**

实验源代码如下：

在eclipse中新建项目如下：

## 截图样式

登陆首页

注册

登陆成功

DBManager.java

**package**

**import**

**import**

**import**

**public** **class** DBManager {

**private** **static** **final** String *DBDRIVER* = SQLServer.Driver";

**private** **static** **final** String *DBNAME* = "performance5601";

**private** **static** **final** String *DBUSER* = "sa";

**private** **static** **final** String *DBPASSWORD* = "111";

**public** **static** Connection getConnection() **throws** SQLException {

String url = + *DBNAME*

+ "?characterEncoding=utf-8";

**try** {

Class.*forName*(*DBDRIVER*);

} **catch** (ClassNotFoundException e) {

e.printStackTrace();

}

**return** DriverManager.*getConnection*(url, *DBUSER*, *DBPASSWORD*);

}

}

DaoOperation.java

**package**

**import**

**import**

**import**

**import**

**import**

**import**

**import**

**public** **class** DaoOperation {

**public** **static** **int** insertData(Object... params) **throws** SQLException {

String sql = "insert into user(username,password) values(?,?)";

Connection conn = **null**;

PreparedStatement preStmt = **null**;

conn = DBManager.*getConnection*();

preStmt = conn.prepareStatement(sql);

*setParams*(preStmt, params);

**int** flag = preStmt.executeUpdate();

**if** (preStmt != **null**)

preStmt.close();

**if** (conn != **null**)

conn.close();

**return** flag;

}

**private** **static** **void** setParams(PreparedStatement preStmt, Object... params)

**throws** SQLException {

**if** (params == **null** || params.length == 0)

**return**;

**for** (**int** i = 1; i <= params.length; i++) {

Object param = params[i - 1];

**if** (param == **null**) {

preStmt.setNull(i, Types.*NULL*);

} **else** **if** (param **instanceof** Integer) {

preStmt.setInt(i, (Integer) param);

} **else** **if** (param **instanceof** String) {

preStmt.setString(i, (String) param);

} **else** **if** (param **instanceof** Double) {

preStmt.setDouble(i, (Double) param);

} **else** **if** (param **instanceof** Long) {

preStmt.setDouble(i, (Long) param);

} **else** **if** (param **instanceof** Timestamp) {

preStmt.setTimestamp(i, (Timestamp) param);

} **else** **if** (param **instanceof** Boolean) {

preStmt.setBoolean(i, (Boolean) param);

} **else** **if** (param **instanceof** Date) {

preStmt.setDate(i, (Date) param);

}

}

}

**public** **static** **int** UpdateInfo(Object... params) **throws** SQLException{

String sql = "update user set password=?";

Connection conn = **null**;

PreparedStatement preStmt = **null**;

conn = DBManager.*getConnection*();

preStmt = conn.prepareStatement(sql);

*setParams*(preStmt, params);

**int** num = preStmt.executeUpdate();

**if** (preStmt != **null**)

preStmt.close();

**if** (conn != **null**)

conn.close();

**return** num ;

}

**public** **static** **void** delete(**int** stuId) **throws** SQLException{

String sql = "delete from user where username=?" ;

Connection conn = **null**;

PreparedStatement preStmt = **null**;

conn = DBManager.*getConnection*();

preStmt = conn.prepareStatement(sql+stuId);

preStmt.executeUpdate();

**if** (preStmt != **null**)

preStmt.close();

**if** (conn != **null**)

conn.close();

**return** ;

}

**public** **static** Boolean select(String username , String password) **throws** SQLException{

String sql = "select \* from user where username=? and password=?" ;

Connection conn = **null**;

PreparedStatement preStmt = **null**;

conn = DBManager.*getConnection*();

preStmt = conn.prepareStatement(sql);

preStmt.setString(1, username);

preStmt.setString(2, password);

ResultSet rs = preStmt.executeQuery() ;

**boolean** flag = **false** ;

**while**(rs.next()){

flag = **true** ;

}

**if** (preStmt != **null**)

preStmt.close();

**if** (conn != **null**)

conn.close();

**return** flag;

}

**public** **static** ResultSet selectALL() **throws** SQLException{

String sql = "select \* from user" ;

Connection conn = **null**;

PreparedStatement preStmt = **null**;

conn = DBManager.*getConnection*();

preStmt = conn.prepareStatement(sql);

ResultSet rs = preStmt.executeQuery() ;

**if** (preStmt != **null**)

preStmt.close();

**if** (conn != **null**)

conn.close();

**return** rs;

}

}

**登陆查询**

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

// **TODO** Auto-generated method stub

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

String password = request.getParameter("password1") ;

Boolean flag = **false**;

**try** {

flag = DaoOperation.*select*(username,password);

} **catch** (SQLException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

**if**(flag){

response.sendRedirect("result.jsp");

}**else**{

response.sendRedirect("error.jsp");

}

}

**注册插入**

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

// **TODO** Auto-generated method stub

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

String password1 = request.getParameter("password1") ;

**try** {

DaoOperation.*insertData*(username,password1) ;

} **catch** (SQLException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

response.sendRedirect("index.jsp");

**return** ;

}

Html页面

<!DOCTYPE html>

<html>

<head>

<title>登陆</title>

<meta http-equiv=*"keywords"* content=*"keyword1,keyword2,keyword3"*>

<meta http-equiv=*"description"* content=*"this is my page"*>

<meta http-equiv=*"content-type"* content=*"text/html; charset=UTF-8"*>

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

</head>

<body>

<h1 style="text-align:*center*">欢迎登陆</h1>

<div style="margin:*auto*;text-align:*center*">

<form action=*"login.do"* method=*"post"* >

<br/>

<p> 用户名 : <input type=*"text"* name=*"username"* /></p>

<p>登录密码 : <input type=*"password"* name=*"password1"*/></p>

<input type=*"submit"* value=*"登录"*/>

</form>

<br/>

<input type=*"button"* value=*"注册"* onclick="window.location='register.jsp'"/>

</div>

</body>

</html>