Java Web: 实现基本的登录注册

**一 人员分工如下：**

设计简单的概念以及界面：刘佳钰

资源素材搜集：蒋慧香

执行检测：傅博

对各种问题的探讨及解决：傅博

**二 工具资源准备：**

一台满足开发要求的计算机.本经验中的计算机所装系统为windows10

上述计算机上已配置好Java项目的开发环境,包括Eclipse,数据库,以及tomcat,本经验以MyEclipse7.5,sqlserver2008,tomcat6.0为例

搜集书籍以及网上资源，根据老师所有讲义及相关开发资料在老师的Github库中

https://github.com/zuoshenghuang/curriculum.gitsoftware目录下了解java web的框架，通过了解CSDN、百度贴吧等一些贴主对所需的各种功能一些见解和使用方法，加以学会利用整合。

**三 步骤：**

**一 开启sqlserver2008数据库服务**

1. 按照下面顺序:点击开始--所有程序--Microsoft SQL Server 2008--配置工具--Sql server配置管理器  
   (2)点击列表中的"SQL Server(MSSQLSERVER)",单击"启动"  
   (3),注意观察SQL Server(MSSQLSERVER)的状态已经变为"正在运行"了:

**二 启动数据库管理器创建数据库和表**  
(1)按照下面顺序:点击开始--所有程序--Microsoft SQL Server 2008--SQL Server Management Studio  
(2)输入登录名和密码后,点击连接  
(3)接下来就是在上面那个界面中进行创建数据库和表的操作,假设所创建的数据库名为"baidu"

**三配置JNDI和数据源**  
（1） 配置tomcat安装目录/conf/context.xml文件,配置好后context.xml  
(2)将数据库驱动的jar型文件复制到Tomcat安装目录下的lib目录中  
(3)编写jsp代码，实现查找数据源,以实现项目与数据库的通连,jsp

四 将Jstl.jar和standard.jar两个文件放到项目的lib目录下(这是jsp标签所用到的两个jar包),  
至此项目开发框架已基本建立,接下来就可以具体开发项目的各个部分了

**四 运行环境**

编译：Myecilpse2017ci、tomcat 8.5

数据库MySQL8.0

连接：mysql-connector-java-5.1.48-bin.jar

**五.运行效果**

**3.1初始界面**

****

**3.2登录成功页面**

****

**六 整体代码如下：**

**网页登录代码**

package src.filters;

import java.io.IOException;

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.FilterConfig;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebFilter;

import javax.servlet.http.HttpServletRequest;

@WebFilter(filterName="LoginFilter", urlPatterns = {"\*.do"})

public class LoginFilter implements Filter {

@Override

public void destroy() {

}

@Override

public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain) throws IOException, ServletException {

if(((HttpServletRequest) request).getSession().getAttribute("user") == null)

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

else

chain.doFilter(request, response);

}

@Override

public void init(FilterConfig config) throws ServletException {

}

}

Applistener.java 类

package src.listeners;

import javax.servlet.ServletContextEvent;

import javax.servlet.ServletContextListener;

import javax.servlet.annotation.WebListener;

@WebListener

public class AppListener implements ServletContextListener {

@Override

public void contextDestroyed(ServletContextEvent e) {

}

@Override

public void contextInitialized(ServletContextEvent e) {

// String path = e.getServletContext().getRealPath("/");

// main.UserManager.getInstance().load();

}

}

User.java类

package src.main;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import com.mysql.jdbc.Connection;

import com.mysql.jdbc.Statement;

public class DBConn {

Connection conn = null;

private final String ip;

private final String dbname;

private final String user;

private final String pwd;

private final int port = 3306;

private static final String driver = "com.mysql.jdbc.Driver";

public void connect(){

try {

Class.forName(driver);

String url = "jdbc:mysql://" + ip + ":" + port +"/" + dbname;

conn = (Connection) DriverManager.getConnection(url, user, pwd);

} catch (Exception e) {

e.printStackTrace();

}

}

// String str = "select \* from userpasswd\_tbl;"

public DBConn(String i, String d, String u, String p){ip = i; dbname = d; user = u; pwd = p;}

Connection getConnection(){return conn;}

public boolean isConnected() {return null != conn;}

public void query(String sql) {

if(null == conn)

return;

try {

Statement stmt = (Statement) conn.createStatement();

ResultSet rs = stmt.executeQuery(sql);

while (rs.next()) {

System.out.println(rs.getString(1) + "\t" + rs.getString(2) + "\t" + rs.getString(3));

}

stmt.close();

}

catch(Exception e){e.printStackTrace();}

}

public int update(String sql)

{

if(null == conn)

return 0;

int ret = 0;

try

{

Statement stmt = (Statement) conn.createStatement();

ret = stmt.executeUpdate(sql);

stmt.close();

}

catch(Exception e)

{

e.printStackTrace();

}

return ret;

}

public void close() {

try {

this.conn.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

static void testJDBC() // java DB connector

{

DBConn dc = new DBConn("127.0.0.1", "mydata", "root", "123456");

dc.connect();

dc.query("select \* from userpasswd\_tbl");

dc.close();

}

public static void main(String[] args) {

testJDBC();

//RedisConn.testRedis();

}

}

package src.main;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

import src.sun.misc.BASE64Encoder;

public class MD5 {

public static String toBase64MD5(String text)

{

BASE64Encoder base64 = new BASE64Encoder();

return base64.encode(MD5.digest(text.getBytes()));

}

public static byte[] digest(byte[] message) {

try {

return MessageDigest.getInstance("MD5").digest(message);

} catch (NoSuchAlgorithmException e) {

}

return null;

}

public static void main(String argv[])

{

String name = "test the web security by md5";

System.out.println(toBase64MD5(name));

}

}

连接数据库基本代码

package src.main;

import java.io.FileInputStream;

import java.io.IOException;

import java.util.Properties;

public class UserManager {

private static UserManager instance = new UserManager();

private Properties props = new Properties();

public static UserManager getInstance() {

instance.load();

return instance;

}

public boolean load(){

try {

//FileInputStream iFile = new FileInputStream(System.getProperty("catalina.base") + "/myconf/users.props");

FileInputStream iFile = new FileInputStream("D:/myconf/users.props");

props.clear();

props.load(iFile);

for(Object v : props.values())

{

System.out.println((String) v);

}

iFile.close();

return true;

} catch (IOException e) {

e.printStackTrace();

return false;

}

}

public boolean checkUserPassword(String u, String p)

{

String pass = props.getProperty(u);

if(pass == null)

return false;

System.out.println(u + "\t" + p);

if(! p.equals(pass))

return false;

return true;

}

}

package src.main;

import java.util.HashMap;

import java.util.Map;

public class Validdation {

static Map<String, String>map = new HashMap<String, String>();

static {

map.put("admin", "adminpass");

map.put("hzs", "hzspass");

}

public static boolean isValid(String u, String p) {

String v = map.get(u);

if(v == null)

return false;

return v.equals(p);

}

}

LoginServlet.java 类

package src.servlets;

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 src.main.UserManager;

import src.main.Validdation;

@WebServlet(name = "Login", urlPatterns = { "/Login.action" })

public class LoginServlet extends HttpServlet {

private static final long serialVersionUID = -1L;

private boolean isValid(String u, String p) {

return true;

/\*

\* if(! u.equals("pt")) return false;

\*

\* if(! p.equals("123456")) return false;

\*

\* return true;

\*/

// return Validdation.isValid(u, p);

//return UserManager.getInstance().checkUserPassword(u, p);

// return false;

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse

\* response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

System.out.println("--------------------");

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

String pass = request.getParameter("passwd");

System.out.println("username:" + name + "\tpasswd:" + pass);

if (isValid(name, pass)) {

System.out.println("OK");

request.getSession().setAttribute("user", name);

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

} else

{

System.out.println("不匹配");

request.getSession().setAttribute("info", "用户名密码不匹配");

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

}

}

/\*\*

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

\* response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

System.out.println("=====================");

/\*

\* String name = request.getParameter("username"); String pass =

\* request.getParameter("passwd"); System.out.println("====," + name +

\* "\tpasswd:" + pass);

\*

\* if(this.isValid(name, pass)){ System.out.println("ok");

\* request.getSession().setAttribute("user", name);

\* request.getRequestDispatcher("/succ.jsp").forward(request,response); } else {

\* System.out.println("failed"); }

\*/

/\*

\* if(UserManager.getInstance().checkUserPassword(name, pass)) {

\* System.out.println("=====================");

\* request.getSession().setAttribute("user", name);

\* request.getRequestDispatcher("/succ.jsp").forward(request,response); }else {

\* request.getSession().setAttribute("info", "用户名密码不匹配");

\* request.getRequestDispatcher("/fail.jsp").forward(request,response); }

\*/

}

}

package src.servlets;

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 org.apache.logging.log4j.LogManager;

import org.apache.logging.log4j.Logger;

@WebServlet(name="Logout",urlPatterns={"/Logout.action"})

public class LogoutServlet extends HttpServlet {

/\*\*

\*

\*/

private static final long serialVersionUID = -6L;

private static Logger logger = LogManager.getLogger(LogoutServlet.class);

/\*\*

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

\*/

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

String uname = (String)request.getSession().getAttribute("user");

uname = uname == null ? "unknown" : uname;

logger.info(uname + ",logout");

request.getSession().setAttribute("user", null);

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

}

/\*\*

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

\*/

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

return;

}

}

package src.servlets;

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;

@WebServlet(name="Signup",urlPatterns={"/Signup.action"})

public class SignupServlet extends HttpServlet {

private static final long serialVersionUID = -1L;

/\*\*

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

\*/

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

System.out.println("GGGGGGGGGGGGGGGGG");

}

/\*\*

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

\*/

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

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

String pass = request.getParameter("passwd");

String pass2 = request.getParameter("passwd2");

System.out.println(name + "\t" + pass + "\t" + pass2);

System.out.println("PPPPPPPPPPPPPPPPPPPP");

}

}

Jsp.......................

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

<!DOCTYPE html>

<html>

<head>

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

<title>Cognitive Lab</title>

</head>

<body>

Fail:${info}

</body>

</html>

<%@ page language=*"java"* import=*"java.util.\*"* pageEncoding=*"ISO-8859-1"*%>

<%

String path = request.getContextPath();

String basePath = request.getScheme()+"://"+request.getServerName()+":"+request.getServerPort()+path+"/";

%>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html>

<head>

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

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

<meta http-equiv=*"pragma"* content=*"no-cache"*>

<meta http-equiv=*"cache-control"* content=*"no-cache"*>

<meta http-equiv=*"expires"* content=*"0"*>

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

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

<!--

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

-->

</head>

<body>

This is my JSP page. <br>

</body>

</html>

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

<!DOCTYPE html>

<html>

<head>

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

<title>Cognitive Lab</title>

</head>

<body>

<form method=*"POST"* action=*'Login.action'* >

<table>

<tr>

<th align=*"right"*>用户名:</th>

<td align=*"left"*><input type=*"text"* name=*"username"*></td>

</tr>

<tr>

<th align=*"right"*>密码</th>

<td align=*"left"*><input type=*"password"* name=*"passwd"*></td>

</tr>

<tr>

<td align=*"right"*><input type=*"submit"* value=*"登录"*></td>

<td align=*"left"*><input type=*"reset"* value=*"重置"*></td>

</tr>

</table>

</form>

</body>

</html>

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

<!DOCTYPE html>

<html>

<head>

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

<title>Cognitive Lab</title>

</head>

<body>

Welcome: ${user}..登录成功！！！ <a href=*"Logout.action"*>Log out</a><p>

${loadInfo}

</body>

</html>

Html

.................................

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<body>

<form method=*"GET"* action=*'Login.action'* >

<table>

<tr>

<th align=*"right"*>用户名:</th>

<td align=*"left"*><input type=*"text"* name=*"username"*></td>

</tr>

<tr>

<th align=*"right"*>密码</th>

<td align=*"left"*><input type=*"password"* name=*"passwd"*></td>

</tr>

<tr>

<td align=*"right"*><input type=*"submit"* value=*"登录"*></td>

<td align=*"left"*><input type=*"reset"* value=*"重置"*></td>

</tr>

</table>

</form>

</body>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<body>

<script type=*"text/javascript"*>

<!-- 正则表达式匹配密码规则-->

**function** isSafePassword(s) {

**var** patrn = /^[a-zA-Z]{1}([a-zA-Z0-9]|[.\_@]){5,7}$/;

**if** (!patrn.exec(s))

**return false**

**return true**

}

**function** isMailAddress(s){

**var** patrn = /^([A-Za-z0-9\_\-\.])+\@([A-Za-z0-9\_\-\.])+\.([A-Za-z]{2,4})$/;

**if** (!patrn.exec(s))

**return false**

**return true**

}

**function** check(){

**var** username = document.getElementById("userid").value

**if**(isMailAddress(username)){

document.getElementById('form-main').submit();

}

**else**{

alert("XXXXX");

}

}

</script>

<form id=*"form-main"* method=*"POST"* action=*'Login.action'*>

<table>

<tr>

<th align=*"right"*>用户名:</th>

<td align=*"left"*><input type=*"text"* id=*"userid"* name=*"username"*></td>

</tr>

<tr>

<th align=*"right"*>密码</th>

<td align=*"left"*><input type=*"password"* id=*"passid"* name=*"passwd"*></td>

</tr>

<tr>

<td align=*"right"*><input type=*"button"* onclick="check()"

value=*"OK"*></td>

<td align=*"left"*><input type=*"reset"* value=*"重置"*></td>

</tr>

</table>

</form>

</body>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<body>

<form method=*"POST"* action=*'Login.action'* >

<table>

<tr>

<th align=*"right"*>用户名:</th>

<td align=*"left"*><input type=*"text"* name=*"username"*></td>

</tr>

<tr>

<th align=*"right"*>密码</th>

<td align=*"left"*><input type=*"password"* name=*"passwd"*></td>

</tr>

<tr>

<td align=*"right"*><input type=*"submit"* value=*"登录"*></td>

<td align=*"left"*><input type=*"reset"* value=*"重置"*></td>

</tr>

</table>

</form>

</body>

</body>

</html>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<body>

<form method=*"POST"* action=*'Signup.action'* >

<table>

<tr>

<th align=*"right"*>用户名:</th>

<td align=*"left"*><input type=*"text"* name=*"username"*></td>

</tr>

<tr>

<th align=*"right"*>密码</th>

<td align=*"left"*><input type=*"password"* name=*"passwd"*></td>

</tr>

<tr>

<th align=*"right"*>再输入密码</th>

<td align=*"left"*><input type=*"password"* name=*"passwd2"*></td>

</tr>

<tr>

<td align=*"right"*><input type=*"submit"* value=*"登录"*></td>

<td align=*"left"*><input type=*"reset"* value=*"重置"*></td>

</tr>

</table>

</form>

</body>

</body>

</html>