import java.io.IOException;

import java.sql.Connection;

import java.sql.SQLException;

import javax.servlet.RequestDispatcher;

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 = { "/login" })

public class LoginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

public LoginServlet() {

super();

}

// Show Login page.

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

// Forward to /WEB-INF/views/loginView.jsp

// (Users can not access directly into JSP pages placed in WEB-INF)

RequestDispatcher dispatcher //

= this.getServletContext().getRequestDispatcher("/WEB-INF/views/loginView.jsp");

dispatcher.forward(request, response);

}

// When the user enters userName & password, and click Submit.

// This method will be executed.

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

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

String rememberMeStr = request.getParameter("rememberMe");

boolean remember = "Y".equals(rememberMeStr);

UserAccount user = null;

boolean hasError = false;

String errorString = null;

if (userName == null || password == null || userName.length() == 0 || password.length() == 0) {

hasError = true;

errorString = "Required username and password!";

} else {

Connection conn = MyUtils.getStoredConnection(request);

try {

// Find the user in the DB.

user = DBUtils.findUser(conn, userName, password);

if (user == null) {

hasError = true;

errorString = "User Name or password invalid";

}

} catch (SQLException e) {

e.printStackTrace();

hasError = true;

errorString = e.getMessage();

}

}

// If error, forward to /WEB-INF/views/login.jsp

if (hasError) {

user = new UserAccount();

user.setUserName(userName);

user.setPassword(password);

// Store information in request attribute, before forward.

request.setAttribute("errorString", errorString);

request.setAttribute("user", user);

// Forward to /WEB-INF/views/login.jsp

RequestDispatcher dispatcher //

= this.getServletContext().getRequestDispatcher("/WEB-INF/views/loginView.jsp");

dispatcher.forward(request, response);

}

// If no error

// Store user information in Session

// And redirect to userInfo page.

else {

HttpSession session = request.getSession();

MyUtils.storeLoginedUser(session, user);

// If user checked "Remember me".

if (remember) {

MyUtils.storeUserCookie(response, user);

}

// Else delete cookie.

else {

MyUtils.deleteUserCookie(response);

}

// Redirect to userInfo page.

response.sendRedirect(request.getContextPath() + "/userInfo");

}

}

}