**Project 6**

**Due Sunday 3/13/2016 by 11:59 PM**

**No delay is accepted**

**For each day late submission 2 points penalty is incurred.**

**Post your answer in the folder *Project 6 on the blackboard.***

**If you have any question please email me at mbadii@pace.edu**

***Do not delete anything from this file. Just write your answer under the word: Answer.***

Repeat Project 5 but use database MySQL rather than cookies. Do not change the html document.

The name of the database **mus**t be: mydatabase.

You need a table with two columns. Its name **must** be mytable:

|  |  |
| --- | --- |
| User name | VARCHAR(20) |
| Password | VARCHAR(20) |

<!-- Do not change this html document -->

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Project 6</title>

</head>

<body>

<form action=*"http://localhost/Project/Main"*>

<center>

<br><br>

User Name:

<input name=*"name"* type=*"text"* value=*""*>

<br>

Password:&nbsp;&nbsp;

<input name=*"password"* type=*"password"* value=*""*>

<br><br>

<input name=*"register"* type=*"Submit"* value=*"Register"*>

<input name=*"login"* type=*"Submit"* value=*" Login "*>

</center>

</form>

</body>

</html>

***Answer:***

***HTML is same as above***

***Servlet class :***

***Main.java***

***import java.io.IOException;***

***import java.io.PrintWriter;***

***import java.sql.Connection;***

***import java.sql.DatabaseMetaData;***

***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.Cookie;***

***import javax.servlet.http.HttpServlet;***

***import javax.servlet.http.HttpServletRequest;***

***import javax.servlet.http.HttpServletResponse;***

***/\*\****

***\* Servlet implementation class Main***

***\*/***

***@WebServlet("/Main")***

***public class Main extends HttpServlet {***

***private static final long serialVersionUID = 1L;***

***private String name;***

***private String password;***

***private String register;***

***private String login;***

***static ResultSet rs ;***

***static Connection con;***

***public Main() {***

***super();***

***// TODO Auto-generated constructor stub***

***}***

***/\*\****

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

***\*/***

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

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

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

***register = request.getParameter("register");***

***login = request.getParameter("login");***

***try {***

***Class.forName("com.mysql.jdbc.Driver").newInstance();***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost/test?user=root&password=");***

***Statement stmt = con.createStatement();***

***stmt.execute("CREATE DATABASE IF NOT EXISTS mydatabase");***

***stmt.execute("USE mydatabase");***

***stmt.execute("CREATE TABLE IF NOT EXISTS mytable(username varchar(20),password varchar(20))");***

***}***

***catch (SQLException |InstantiationException | IllegalAccessException | ClassNotFoundException e) {***

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

***e.printStackTrace();***

***}***

***if(check(name, password)){***

***if(login != null)***

***processLogin(request, response);***

***else***

***processRegister(request, response);***

***}***

***else***

***{***

***response.setContentType("text/html");***

***PrintWriter out = response.getWriter();***

***out.println("<html>\n" +***

***"<head><title>Authentication</title></head>\n" +***

***"<body bgcolor=\"#fdf5e6\">\n" +***

***"<h1 align=\"center\"> Please check the userid or password entered</h1>\n" +***

***"</body></html>");***

***}***

***response.getWriter().append("Served at: ").append(request.getContextPath());***

***}***

***private boolean check(String name, String password){***

***if(name.isEmpty() || password.isEmpty())***

***{***

***return false;***

***}***

***else if(name.equalsIgnoreCase(null) || password.equalsIgnoreCase(null))***

***{***

***return false;***

***}***

***else if(name.equalsIgnoreCase("")||password.equalsIgnoreCase(""))***

***{***

***return false;***

***}***

***else***

***{***

***return true;***

***}***

***}***

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

***String message ="";***

***try {***

***Statement stmt = con.createStatement();***

***rs=stmt.executeQuery("Select \* from mytable where username='"+name+"'");***

***if(rs.next())***

***{***

***message="You have already registered !Please login";***

***}***

***else***

***{***

***stmt.execute("insert into mytable(username,password) values(\'"+name+"\',\'"+password+"\')");***

***message ="Thank you for registering "+name;***

***}***

***} catch (SQLException e) {***

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

***e.printStackTrace();***

***}***

***response.setContentType("text/html");***

***PrintWriter out = response.getWriter();***

***out.println("<html>\n" +***

***"<head><title>Authentication</title></head>\n" +***

***"<body bgcolor=\"#fdf5e6\">\n" +***

***"<h1 align=\"center\"> "+message+"</h1>\n" +***

***"</body></html>");***

***}***

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

***String message ="";***

***try {***

***Statement stmt = con.createStatement();***

***rs=stmt.executeQuery("Select \* from mytable where username='"+name+"' and password='"+password+"'");***

***if(rs.next())***

***{***

***message="Welcome back "+name;***

***}***

***else***

***{***

***message="UserId or password incorrect.Please check and login else please register";***

***}***

***} catch (SQLException e) {***

***e.printStackTrace();***

***}***

***response.setContentType("text/html");***

***PrintWriter out = response.getWriter();***

***out.println("<html>\n" +***

***"<head><title>Authentication</title></head>\n" +***

***"<body bgcolor=\"#fdf5e6\">\n" +***

***"<h1 align=\"center\"> "+message+"</h1>\n" +***

***"</body></html>");***

***}***

***}***