

Write a Servlet application for login page, which is checking the username and password with the content in the database table. If username and password are matching, display welcome message else display error message.

Use the following query in MySQL for creating users.

create table users (id int primary key, username varchar(20), password varchar(20));

Answer :

```
--//Sun Microsystems, Inc.//DTD Web Application 2.3//EN (doctype with catalog)
1 <!DOCTYPE web-app PUBLIC
2 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
3 "http://java.sun.com/dtd/web-app_2_3.dtd" >
4
5 <web-app>
6   <display-name>Archetype Created Web Application</display-name>
7   <servlet>
8     <servlet-name>LoginServlet</servlet-name>
9     <display-name>LoginServlet</display-name>
10    <description></description>
11    <servlet-class>com.loginpage.controller.LoginServlet</servlet-class>
12  </servlet>
13  <servlet-mapping>
14    <servlet-name>LoginServlet</servlet-name>
15    <url-pattern>/Login</url-pattern>
16  </servlet-mapping>
17
18  <welcome-file-list>
19    <welcome-file>index.jsp</welcome-file>
20  </welcome-file-list>
21 </web-app>
```

```
1 package com.loginpage.controller;
2
3 import java.io.IOException;
4
15 public class LoginServlet extends HttpServlet {
16
17   private static final long serialVersionUID = 1L;
18
19   protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
20
21     response.setContentType("text/html");
22     String username = request.getParameter("username");
23     String password = request.getParameter("password");
24
25     try {
26
27       Class.forName("com.mysql.cj.jdbc.Driver");
28
29       Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/lab?useSSL=false", "root", "1234");
30
31       PreparedStatement pst = con.prepareStatement("select * from users where username = ? and password = ?");
32
33       pst.setString(1, username);
34       pst.setString(2, password);
35
36       ResultSet rs = pst.executeQuery();
37
38       if (rs.next()) {
39
40         response.setContentType("text/html");
41         PrintWriter out = response.getWriter();
42         out.println("<html><body>");
43         out.println("<h1>Welcome, " + username + "!</h1>");
44         out.println("</body></html>");
45       }
46     } catch (Exception e) {
47       response.setContentType("text/html");
48       PrintWriter out = response.getWriter();
49       out.println("<html><body>");
50       out.println("<h1>Error</h1>");
51       out.println("</body></html>");
52     }
53   }
54 }
```

```

45
46         } else {
47
48             response.setContentType("text/html");
49             PrintWriter out = response.getWriter();
50             out.println("<html><body>");
51             out.println("<h1>Error: Invalid username or password</h1>");
52             out.println("</body></html>");
53         }
54
55         rs.close();
56         pst.close();
57         con.close();
58
59     }
60     catch (SQLException | ClassNotFoundException e) {
61         e.printStackTrace();
62     }
63     finally {
64         response.setContentType("text/html");
65         PrintWriter out = response.getWriter();
66         out.println("<html><body>");
67         out.println("<h1>Finally Block</h1>");
68         out.println("</body></html>");
69     }
70 }
71 }

```

```

1  LoginServlet.java  index.jsp  web.xml  loginpage/pom.xml
2  <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
3  pageEncoding="ISO-8859-1" %>
4  <!DOCTYPE html>
5  <html>
6  <head>
7  <meta charset="ISO-8859-1">
8  <title>Login Page</title>
9  </head>
10 <body>
11 <div class="container"><br><br>
12 <form action="Login" method="post">
13 <div>
14 <label>Enter Your User Name</label>
15 <input type="text" name="username" placeholder="User Name">
16 </div>
17 <br><br>
18 <div>
19 <label>Enter Your Password</label>
20 <input type="password" name="password" placeholder="User Password">
21 </div>
22 <br><br>
23 <input type="submit" value="LOGIN" name="btnLogin">
24 </form>
25 </div>
26 </body>
27 </html>

```

Output :

Enter Your User Name

Enter Your Password