**7.Servlet(login and signup):**

**Client file:**

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import java.io.IOException;

public class Client extends HttpServlet {

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

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

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

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

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

request.setAttribute("username", username);

request.setAttribute("password", password);

request.getRequestDispatcher("Server").forward(request, response);

}

}

**Server file:**

import java.io.\*;

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import java.io.IOException;

public class Server extends HttpServlet {

private static final long serialVersionUID = 1L;

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

// TODO Auto-generated method stub

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

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

PrintWriter out=response.getWriter();

out.println("<html><head><title>User Info</title>");

out.println("<link rel='stylesheet' type='text/css' href='css/style.css'>");

out.println("</head><body>");

out.println("<div class='output-container' >");

out.println("<h2>The user Information</h2>");

out.println("<p><strong>Username:</strong>"+ username +"</p>");

out.println("<p><strong>Password:</strong> " + password + "</p>");

out.println("</div>");

out.println("</body></html>");

}

}

**Index file:**

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"ISO-8859-1"*>

<**title**>User Login</**title**>

<**style**>

body {

font-family: *Arial, sans-serif*;

background-color: *#f2f2f2*;

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

}

form {

background-color: *white*;

padding: *20px 30px*;

border-radius: *10px*;

box-shadow: *0px 0px 10px rgba(0,0,0,0.1)*;

width: *300px*;

}

h2 {

text-align: *center*;

margin-bottom: *20px*;

}

input[type="text"] {

width: *100%*;

padding: *8px*;

margin: *8px 0*;

box-sizing: *border-box*;

}

input[type="password"] {

width: *100%*;

padding: *8px*;

margin: *8px 0*;

box-sizing: *border-box*;

}

input[type="submit"] {

background-color: *#4CAF50*;

color: *white*;

border: *none*;

padding: *10px 15px*;

width: *100%*;

border-radius: *5px*;

cursor: *pointer*;

font-size: *16px*;

}

input[type="submit"]:hover {

background-color: *#45a049*;

}

label {

display: *block*;

margin-top: *10px*;

}

</**style**>

</**head**>

<**body**>

<**form** action=*"Client"* method=*"post"*>

<**h2**>Login</**h2**>

<**label** for=*"username"*>Username:</**label**>

<**input** type=*"text"* name=*"username"* required>

<**label** for=*"password"*>Password:</**label**>

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

<**input** type=*"submit"* value=*"Submit"*>

</**form**>

</**body**>

</**html**>

**Web.xml:**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"https://jakarta.ee/xml/ns/jakartaee"* xsi:schemaLocation=*"https://jakarta.ee/xml/ns/jakartaee https://jakarta.ee/xml/ns/jakartaee/web-app\_6\_0.xsd"* id=*"WebApp\_ID"* version=*"6.0"*>

<display-name>Servlet</display-name>

<servlet>

<servlet-name>Client</servlet-name>

<servlet-class>Client</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Client</servlet-name>

<url-pattern>/Client</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>Server</servlet-name>

<servlet-class>Server</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Server</servlet-name>

<url-pattern>/Server</url-pattern>

</servlet-mapping>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.jsp</welcome-file>

<welcome-file>default.htm</welcome-file>

</welcome-file-list>

</web-app>