**Servlets:**

Program No: 1

**Write a Servlet program to validate login**.

1. Open an NetBeans.
2. Create New Project->Java web->select webapplication----finish
3. Default a index.html is created in the folder web.
4. Update the below content in the index.html file

<html>

<head>

<title>Loginpage</title> <meta charset="UTF8">

<meta name="viewport" content="width=device-width, initial-cale=1.0"> </head>

<body>

<form name="f1"action="http://localhost:8080/MyServlet/LoginServlet" method="get">

username<input type="text" name="uname"><br> password<input type="password" name="pass"><br> <input type="submit" value="click">

<input type="reset" value="clear"> </form>

</body>

</html>

1. Click on the project→rightclick—>New->servlet
2. Servlet class is created with the methods. Replace the proccessRequest method with service name.
3. **Modify the selvlet content**

import java.io.IOException; import java.io.PrintWriter;

import javax.servlet.ServletException; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;

/\*\*

* @author Anu \*/

public class LoginServlet extends HttpServlet {

public void **service**(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException { response.setContentType("text/html;charset=UTF-8"); try (PrintWriter out = response.getWriter()) {

**String name=request.getParameter("uname"); String pwd=request.getParameter("pass"); out.println("<html><head><title>Login</title></head>"); out.println("<body bgcolor='pink'>"); if(name.equals("admin")&& pwd.equals("test")) {**

**out.println("<h2>Login successful</h2>");**

**out.println("<form action='http://localhost:8080/ServletDemo/NewServlet ' method='get'>");**

**out.println("<input type='submit' value='proceed'></form>");**

**}**

**else**

**out.println("<h2>Login unsuccessful</h2>");**

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

}

}

* <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs \* @throws IOException if an I/O error occurs

\*/

@Override

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

processRequest(request, response);

}

/\*\*

* Handles the HTTP <code>POST</code> method.
* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs

\*/

@Override

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

processRequest(request, response);

}

/\*\*

* Returns a short description of the servlet.
* @return a String containing servlet description \*/

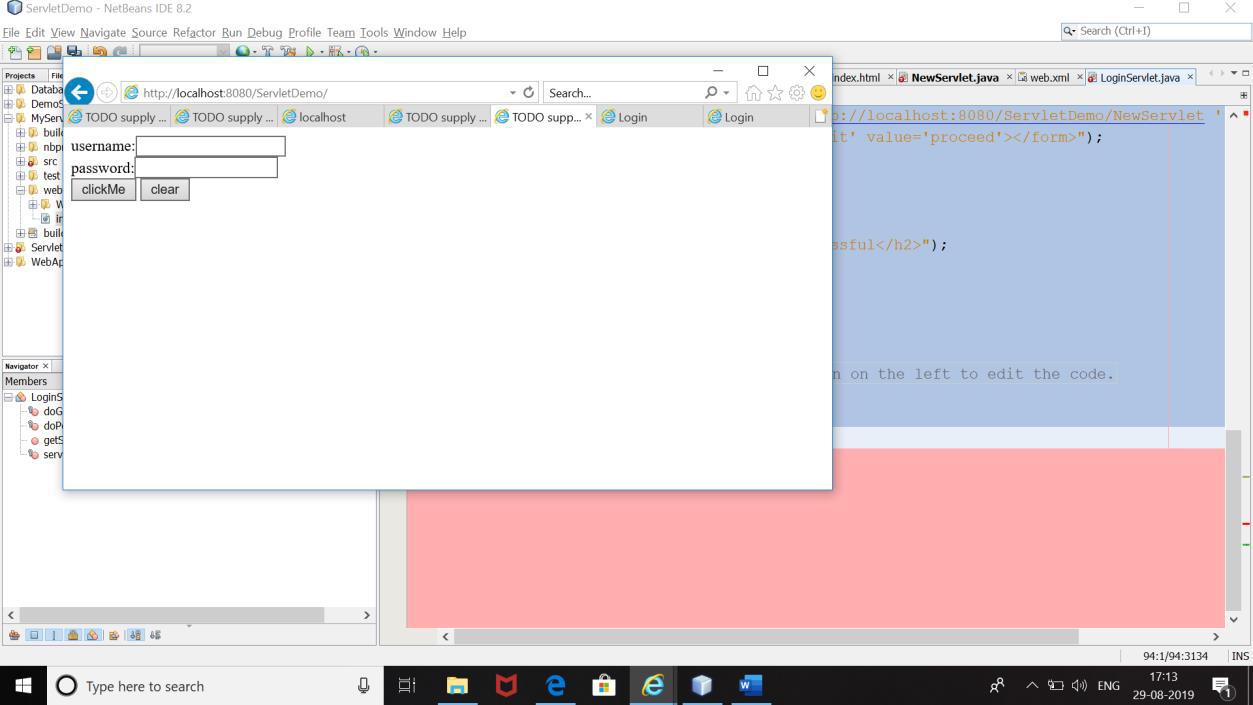
@Override

public String getServletInfo() { return "Short description";

}// </editor-fold>

}

8. Build the project.



**Date Servlet**

import java.io.\*;

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.util.\*;

public class DateServlet extends HttpServlet

{

public void init(){}

public void service(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException

{ PrintWriter out = res.getWriter();

res.setContentType("text/html");

**out.println("Current date & time"+new Date());**

}

}

**Program No: 2**

Write a Servlet program to demonstrate how to access parameters through a servlet.

<html>

<title>"Sample Page</title>

<body>

<center>

<form name = "form2" method = "post" action="http://localhost:8080/DataServlet/cse"> Enter ur Name: <input type="text" name ="nm">

<br><br>

Enter ur age : <input type ="text" name ="age">

<br><br>

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

</form>

</body>

</html>

**1) Open another editor & type the following code: ( web.xml)**

<web-app>

<servlet>

<servlet-name>DApp</servlet-name>

<servlet-class>DServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>DApp</servlet-name>

<url-pattern>/cse</url-pattern>

</servlet-mapping>

</web-app>

**2) Open another editor & type the following Servlet code: ( DServlet.java)**

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.io.\*;

public class DServlet extends HttpServlet

{

public void service(HttpServletRequest req, HttpServletResponse res) throws IOException,

ServletException

{

String name = req.getParameter("nm");

String age = req.getParameter("age");

res.setContentType("text/html");

PrintWriter out = res.getWriter();

out.println("<B>My Name is:"+name);

out.println("<B>and My age is "+age);

out.close();

}

}

**Program No: 3**

**Write a Servlet program to demonstrate Color servlet**

**1) Edit the following code: (Save as Color.html)**

<html>

<body>

<center>

<form name = "Form1" method = "post" action= "http://localhost:8080/ColorServlet/color">

<b>Color :</b>

<select name="color" size="1">

<option value = "red">Red</option>

<option value = "Green">Green</option>

<option value = "Blue">Blue</option>

</select>

<br><br>

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

</form>

</body>

</html>

**2) type the following code: ( web.xml)**

<web-app>

<servlet>

<servlet-name>CServlet</servlet-name>

<servlet-class>ColorServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>CServlet</servlet-name>

<url-pattern>/color</url-pattern>

</servlet-mapping>

</web-app>

**3) Open another editor & type the following Servlet code: ( ColorServlet.java)**

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.io.\*;

public class ColorServlet extends HttpServlet

{ public void service(HttpServletRequest req, HttpServletResponse res) throws

ServletException, IOException

{ String str = req.getParameter("color");

res.setContentType("text/html");

PrintWriter out = res.getWriter();

out.println("<h1>");

out.println("<b> Selected Color is");

out.println(str);

out.close();

}

}

**Demonstrate Cookies with relevant example:**

1. Open and editor & type the following code: (CookieServlet.java)

import javax.servlet.http.\*;

import java.io.\*;

import java.util.\*;

public class CookieServlet extends HttpServlet

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

{ PrintWriter out = response.getWriter();

Cookie[] c = request.getCookies();

String user = null;

String responseString = null;

if ( c != null )

{ for ( int x = 0; x < c.length; x++ )

{ String name = c[x].getName();

if ( name.equals("session\_id") )

{ if((c[x].getValue()).equals("561"))

{ user = new String("ANUCE");

break; }

}

}

}

if ( user == null )

{ response.addCookie(new Cookie("session\_id", "561"));

responseString = new String("Welcome to our site,we have

created a session for you.");

}

else

{ responseString = new String("Hello : " + user); }

out.println("<html>");

out.println("<body>");

out.println(responseString);

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

}

}

import javax.servlet.http.\*;

import java.io.\*;

import java.util.\*;

public class HttpSessionServlet extends HttpServlet {

public void doGet(HttpServletRequest request,HttpServletResponse response)throws IOException

{

PrintWriter out = response.getWriter();

String[] movies = null;

HttpSession s = request.getSession();

if ( s != null )

{

movies = (String[])s.getAttribute("Movies");

}

out.print("<html>");

out.print("<body>");

out.print("<H2>Thank you for purchasing:</H2>");

for ( int x = 0; x < movies.length; x++ )

{

out.print(movies[x] + "<BR>");

}

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

}

public void doPost(HttpServletRequest request,HttpServletResponse response)throws IOException

{

PrintWriter out = response.getWriter();

String movies[] = request.getParameterValues("Movies"); HttpSession s = request.getSession();

if ( s != null )

{ s.setAttribute("Movies", movies); }

out.print("<html>");

out.println("<body>");

out.println("<h2>Contents of Shopping Cart</h2>");

for ( int x = 0; x < movies.length; x++ )

{

out.print(movies[x] + "<br>");

}

out.println("<form action=\"http://localhost:8888/Session/hss\" method=\"get\">"); out.println("<input type=\"submit\" value=\"Proceed to Checkout\"></form>"); out.println("</body></html>");

}

}

1. Create web.xml with the following code: <web-app>

<servlet>

<servlet-name>hss</servlet-name>

<servlet-class>HttpSessionServlet</servlet-class> </servlet>

<servlet-mapping>

<servlet-name>hss</servlet-name>

<url-pattern>/hss</url-pattern>

</servlet-mapping>

</web-app>