

## 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>Login page</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=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>
```

- 5) Click on the project → rightclick → New → servlet
- 6) Servlet class is created with the methods. Replace the processRequest method with service name.
- 7) Modify the servlet 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 {

```

```

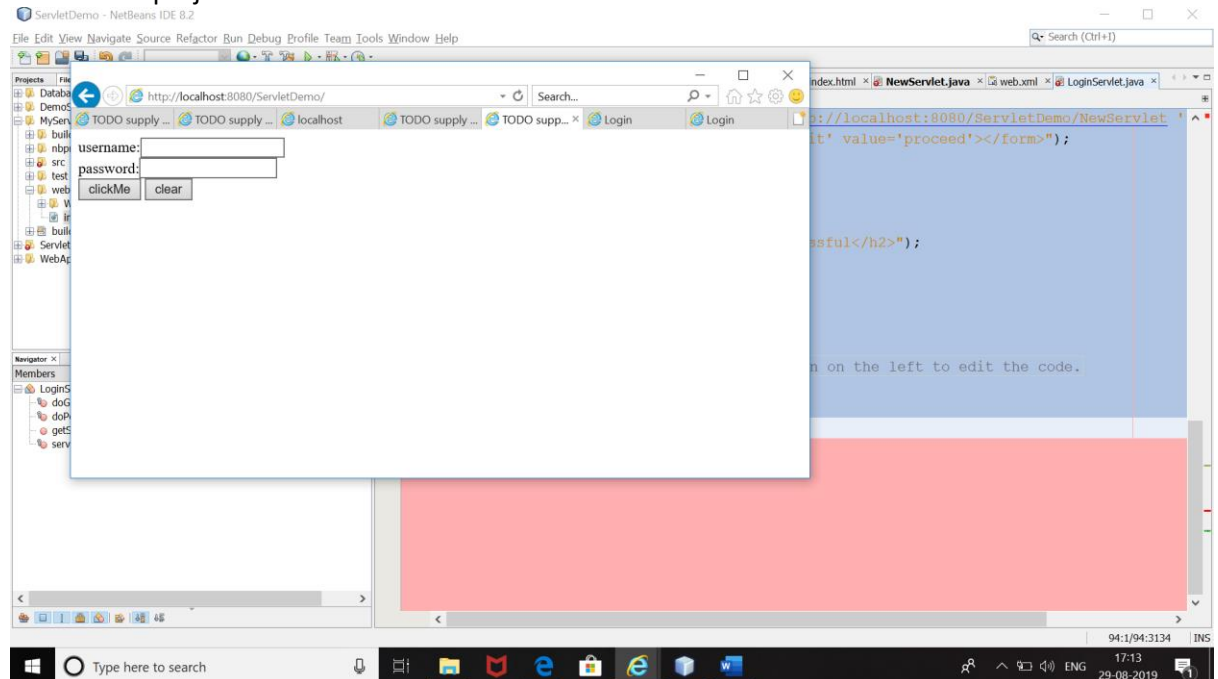
        processRequest(request, response);
    }

    /**
     * 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 an 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>

```