

AIM:- Demonstrate Servlet

Collaboration Index.html

```

<title>Servlet Login</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
    <h1 style="margin-left:40%">Servlet Collaboration</h1>
    <form action="validate" method="get">
        <h2>Request Dispatcher</h2>
        Username : <input type="text" name="user_name" placeholder="nlad"/><br><br>
        Password : <input type="password" name="user_pswd" placeholder="1234" /><br><br>
        By Request Dispatcher : <input type="submit" name="SUBMIT" /><br>
    </form>
    <hr>
    <form action="send_redirect_validate">
        <h2>Send Redirect()</h2>
        Username : <input type="text" name="user_name2" placeholder="nlad"/><br><br>
        Password : <input type="password" name="user_pswd2" placeholder="1234"/><br><br>
        By Send Redirect () : <input type="submit" name="SUBMIT"/><br>
    </form>
    <hr>
    <form action="cook1">
        <h2>Cookies</h2>

        Enter Your Name : <input type="text" name="myname" placeholder="Your Name"/><br><br>
        Your Favourite Song : <input type="text" name="song" placeholder="Enter here"/><br><br>
        By Send Redirect () : <input type="submit" name="SUBMIT"/><br>

    </form>
    <hr>
    <form action="session_validate1" >
        <h2>Using Session Management</h2>
        Username : <input type="text" name="user_name3" placeholder="nlad"/><br><br>
        Password : <input type="password" name="user_pswd3" placeholder="1234"/><br><br>
        By Send Redirect () : <input type="submit" name="SUBMIT"/><br>
    </form>

```

OUTPUT

Request Dispatcher

Username :

Password :

By Request Dispatcher :

Send Redirect()

Username :

Password :

By Send Redirect () :

Cookies

Enter Your Name :

Your Favourite Song :

By Send Redirect () :

Using Session Management

Username :

Password :

By Send Redirect () :

- 1. Request Dispatchéí (foíwaíd(), include())

Seívlet 1

```


    /*
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
response.setContentType("text/html;charset=UTF-8");
try ( PrintWriter out = response.getWriter() ) {
    /* TODO output your page here. You may use following sample code. */
    String usrnname=(String)request.getParameter("user_name");
    String usrpsswd=(String)request.getParameter("user_pswd");
    if(usrname.equals("nlad") && usrpsswd.equals("1234")){
        RequestDispatcher rd= request.getRequestDispatcher("welcome_user");
        rd.forward(request, response);

    }else{
        out.print("Invalid username or password");
        RequestDispatcher rd=request.getRequestDispatcher("index.html");
        rd.include(request,response);
    }
}
}


```

Seívlet 2

```


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

    PrintWriter out = response.getWriter();
    String username=request.getParameter("user_name");
    out.println("Hey "+username+" ! Welcome back "+ " from forward method :))");
}


```

OUTPUT

Request Dispatcher

Username :

Password :

By Request Dispatcher :

← → C ⓘ localhost:8080/Login/validate?user_name=nlad&user_pswd=1234&SUBMIT=Submit

Hey nlad ! Welcome back from forward method :))

b) sendRedirect()

Seívlet 1

```
/*
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try ( PrintWriter out = response.getWriter() ) {
        /* TODO output your page here. You may use following sample code. */
        String usrname=(String)request.getParameter("user_name2");
        String usrpswd=(String)request.getParameter("user_pswd2");

        if(usrname.equals("nlad") && usrpswd.equals("1234")){
            response.sendRedirect("welcome_user2?user_name2="+usrname);
        }else{

            out.print("<html><body>Invalid username or password </body></html>");
        }
    }
}
```

Seívlet 2

```
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
response.setContentType("text/html;charset=UTF-8");
try ( PrintWriter out = response.getWriter() ) {
/* TODO output your page here. You may use following sample code. */
String name=(String)request.getParameter("user_name2");
out.println("Hey "+name+" ! Welcome back from sendRedirect method :))))");
}
}
```

OUTPUT

Send Redirect()

Username :

Password :

By Send Redirect () :



Hey nlad ! Welcome back from sendRedirect method :))))

c) Cookies

Servlet 1

```

/*
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try ( PrintWriter out = response.getWriter() ) {
        /* TODO output your page here. You may use following sample code. */
        String name =request.getParameter("myname");
        String song_name =request.getParameter("song");
        out.print("<br><br>Hey "+name+" ! , Welcome to Music Party :)");

        out.print("<form action='cook2'><br>");
        out.print("&nbsp;&nbsp;<input type='submit' value='Get Started'>");
        out.print("</form>");

        Cookie c=new Cookie("name",name);
        Cookie c1=new Cookie("song",song_name);
        response.addCookie(c);
        response.addCookie(c1);
    }
}

```

Servlet 2

```

/*
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try ( PrintWriter out = response.getWriter() ) {
        /* TODO output your page here. You may use following sample code. */

        Cookie c[]=request.getCookies();
        out.print("Whoa "+c[0].getValue()+" :o ");
        out.print("<br>Your's Favourite Song is ' "+c[1].getValue()+" ' Great Choice Buddy ! ");
    }
}

```

OUTPUT

Cookies

Enter Your Name :

Your Favourite Song :

By Send Redirect () :

Hey neel ! , Welcome to Music Party :)



Whoa neel :o
Your's Favourite Song is ' Wicked Games ' Great Choice Buddy !

d) Session

Servlet 1

```

protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try ( PrintWriter out = response.getWriter() ) {
        /* TODO output your page here. You may use following sample code. */
        String session_user=(String)request.getParameter("user_name3");
        String session_password=(String)request.getParameter("user_pswd3");
        HttpSession session=request.getSession();
        session.setAttribute("user",session_user);
        session.setAttribute("user_pass",session_password);

        if(session_user.equals("nlad") && session_password.equals("1234")){
            response.sendRedirect("session2");
        }
        else{
            response.sendRedirect("index.html");
        }
    }
}

```

Servlet 2

```

protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try ( PrintWriter out = response.getWriter() ) {
        /* TODO output your page here. You may use following sample code. */
        HttpSession session=request.getSession();
        String username =(String) session.getAttribute("user");
        String userpass =(String) session.getAttribute("user_pass");
        out.println("Hey "+username+" ! Welcome back from session :))))");
    }
}

```

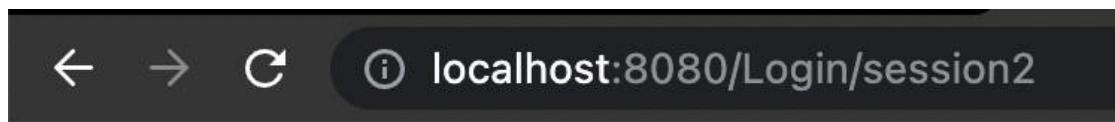
OUTPUT

Using Session Management

Username :

Password :

By Send Redirect () :



Hey nlad ! Welcome back from session :))))