

6. Write a program to demonstrate a Session Tracking using Cookies

loginServlet.java

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

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

public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    public LoginServlet() {
        super();
    }

    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        response.getWriter().append("Served at: ")
            .append(request.getContextPath());
    }

    protected void doPost(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        String user = request.getParameter("user");
        String pwd = request.getParameter("pwd");
        PrintWriter pw = response.getWriter();
        response.setContentType("text/html");
        if (user.equals("admin") && pwd.equals("password")) {
            Cookie c = new Cookie("userid", user);
            response.addCookie(c);
            response.sendRedirect("index.html");
        } else {
            pw.print("Check the login credentials.");
        }
    }
}
```

Profile.java

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

import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
```

```

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

public class Profile extends HttpServlet {
    private static final long serialVersionUID = 1L;

    public Profile() {
        super();
    }

    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter pw = response.getWriter();
        response.setContentType("text/html");
        Cookie[] cookies = request.getCookies();
        if (cookies != null) {
            String userid = "";
            for (Cookie cookie : cookies) {
                if (cookie.getName().equals("userid")) {
                    userid = cookie.getValue();
                    break;
                }
            }
            Cookie c[]=request.getCookies();
            if(c!=null) {
                pw.print("Welcome to "+ c[0].getValue());
            }
            else {
                pw.print("Hey, login first...");
            }
        } else {
            pw.print("Hey, login first...");
        }
    }

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

```

Logout.java

```

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

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

```

```

import javax.servlet.http.HttpServletResponse;

public class Logout extends HttpServlet {
    private static final long serialVersionUID = 1L;

    public Logout() {
        super();
    }

    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter pw = response.getWriter();
        response.setContentType("text/html");
        Cookie c = new Cookie("userid", "");
        c.setMaxAge(0);
        response.addCookie(c);
        pw.print("Logged out....");
        //response.sendRedirect("index.html");
    }

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

```

index.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>

<body>
<h1>Cookiees Tracking </h1>
<h3>Welcome to Index Page </h3>
<a href="login.html">Login</a>
<a href="./Profile">Profile</a>
<a href="./Logout">Logout</a>
</body>

</html>

```

login.html

```

<!DOCTYPE html>
<html>

```

```

<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Login Form</h1>
<form action="LoginServlet" method="post">
    username<input type="text" name="user"><br>
    password<input type="password" name="pwd"><br>
    <input type="submit" value="login">
</form>
</body>
</html>

```

Web.xml

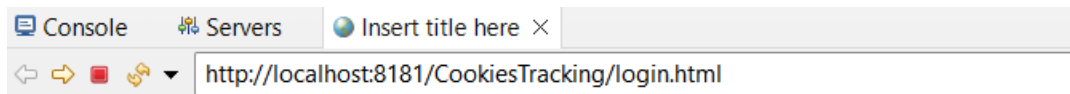
```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID"
version="2.5">
    <display-name>CookiesTracking</display-name>
    <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>
    <servlet>
        <description></description>
        <display-name>LoginServlet</display-name>
        <servlet-name>LoginServlet</servlet-name>
        <servlet-class>LoginServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>LoginServlet</servlet-name>
        <url-pattern>/LoginServlet</url-pattern>
    </servlet-mapping>
    <servlet>
        <description></description>
        <display-name>Logout</display-name>
        <servlet-name>Logout</servlet-name>
        <servlet-class>Logout</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>Logout</servlet-name>
        <url-pattern>/Logout</url-pattern>
    </servlet-mapping>
</web-app>

```

```
<description></description>
<display-name>Profile</display-name>
<servlet-name>Profile</servlet-name>
<servlet-class>Profile</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>Profile</servlet-name>
  <url-pattern>/Profile</url-pattern>
</servlet-mapping>
</web-app>
```

Output




Login Form

username

password



 http://localhost:8181/CookiesTracking/Profile

Welcome to admin

 http://localhost:8181/CookiesTracking/Logout

Logged out....