

Aim:

To write servlet program for Session tracking using cookies

Program:

Registration form :

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet(urlPatterns = {"/greetings"})
public class greetings extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        Cookie ck[]=request.getCookies();

        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Result</title>");
            out.println("</head>");
            for(int i=0;i<ck.length;i++){
                if("name".equals(ck[i].getName())){
                    out.println("<h1> Welcome "+ck[i].getValue()+"</h1>");}
            }

            out.println("</body>");
            out.println("</html>");
        }
    }
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }
    @Override
    public String getServletInfo() {
        return "Short description";
    }
}

```

Output:

Enter username:

Enter email:

Enter password:

Login page:

```
<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->
<html>
  <head>
    <title>Session tracking</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="http://localhost:8080/ExpNo7/welcome" method="post">
      Enter username:<input type="text" name="username"><br><br>
      Enter email:<input type="text" name="email"><br><br>
      Enter password:<input type="text" name="password">
      <br><br>
      <input type="submit">
    </form>
  </body>
</html>
```

Output:

SUCCESSFULLY ADDED

[Click](#)

Welcome page:

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet(urlPatterns = {"/welcome"})
public class welcome extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        String name=request.getParameter("username");
        String mail=request.getParameter("mail");
        String pw=request.getParameter("password");
        Cookie c=new Cookie("name",name);
        Cookie c1=new Cookie("mail",mail);
        Cookie c2=new Cookie("password",pw);
        c.setMaxAge(10000);
        c1.setMaxAge(10000);
        c2.setMaxAge(10000);
        response.addCookie(c);
        response.addCookie(c1);
        response.addCookie(c2);
        try (PrintWriter out = response.getWriter()) {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Result</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>SUCCESSFULLY ADDED</h1>");
            out.println("<a href='http://localhost:8080/ExpNo7/greetings'>Click</a>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

```

@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}
@Override
public String getServletInfo() {
    return "Short description";
} // </editor-fold>
}

```

Output:

Welcome abc

Observation(20)	
Record(5)	
Total(25)	
Initial	

Result:

Thus, the program to implement servlet program for Session tracking using cookies written, executed and the output is verified.