

TRINITY INTERNATIONAL COLLEGE

(Tribhuvan University Affiliated)



Lab Report:7 Servlet and JSP

Submitted by:

Name :Anusha Panta
Program : **B. Sc. (CSIT)**
Roll No :10
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Submitted to:

Aman Maharjan

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Unit 7: Servlets and Java Server Pages

8. Write a Servlet program to show how to create and retrieve the value of a cookie.

Program :

CookieHelper.java

```
import javax.servlet.http.*;

public class CookieHelper {
    public static void addCookie(HttpServletResponse response,
        String name, String value) {
        Cookie cookie = new Cookie(name, value);
        cookie.setMaxAge(7 * 24 * 60 * 60);
        response.addCookie(cookie);
    }

    public static String getCookie(HttpServletRequest request,
        String name) {
        Cookie[] cookies = request.getCookies();
        if(cookies == null) return null;
        for(Cookie cookie: cookies) {
            if(cookie.getName().equals(name))
                return cookie.getValue();
        }
        return null;
    }
}
```

NameServlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.*;
import javax.servlet.http.*;

@WebServlet(urlPatterns = {"/NameServlet"})
public class NameServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        String nameInCookie = CookieHelper.getCookie(request, "name");
        if(nameInCookie != null) {
            showWelcomePage(response, nameInCookie);
        }
        return;
    }
}
```

```

}

String submit = request.getParameter("submit");
if(submit != null) {
String name = request.getParameter("name");
CookieHelper.addCookie(response, "name", name);
showWelcomePage(response, name);
return;
}

showNameForm(response);
}

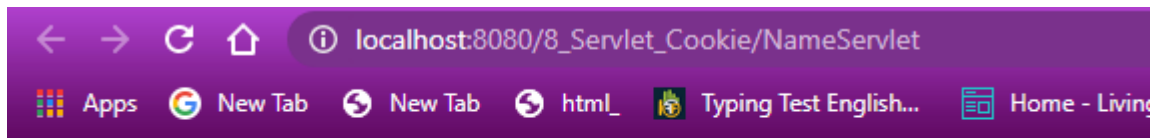
private void showWelcomePage(HttpServletResponse response,
String name)
throws ServletException, IOException {
String html = String.format("<p>Welcome %s</p>", name);
send(response, html);
}

private void showNameForm(HttpServletResponse response)
throws ServletException, IOException {
String html = "<form action='NameServlet' method='GET'>"
+ "Name: <input type='text' name='name'>"
+ "<input type='submit' value='Submit' name='submit'>"
+ "</form>";
send(response, html);
}

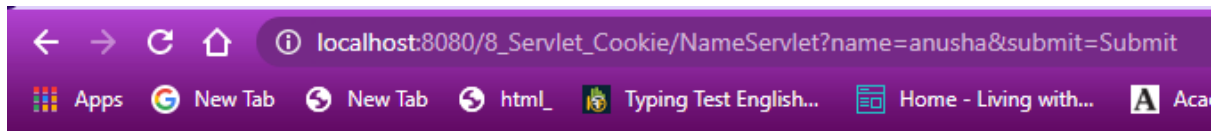
private void send(HttpServletResponse response, String html)
throws ServletException, IOException {
response.setContentType("text/html; charset=UTF-8");
try (PrintWriter out = response.getWriter()) {
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>NameServlet</title>");
out.println("</head>");
out.println("<body>");
out.println(html);
out.println("</body>");
out.println("</html>");
}
}
}

```

Output :



Name:



Welcome anusha

9. Write a JSP program to demonstrate login, logout and secure admin page.

Program:

Loginform.jsp

```
<%--
Document      : 1_loginform
Created on    : 26-Jun-2020, 10:34:42
Author       : user
--%>

<html>
<head>
<title>Login Form</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-
scale=1.0">
</head>
<body>
<h1>Welcome to Login Page !!!!</h1>

<form action="1_loginform_validate.jsp" method="POST">
Username:<input type="text" name="username">
<br/>
Password:<input type="password" name="password">
<br/>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

Loginform_validate.jsp

```
<%  
  
String username = request.getParameter("username");  
String password = request.getParameter("password");  
  
if (username.equalsIgnoreCase("anusha") &&  
password.equalsIgnoreCase("anusha")) {  
    session.setAttribute("user", username);  
  
    response.sendRedirect("1_admin.jsp");  
} else {  
  
    response.sendRedirect("1_loginform.jsp");  
}  
%>
```

Admin.jsp

```
<%--  
Document      : 1_admin  
Created on    : 26-Jun-2020, 10:40:43  
Author       : user  
--%>  
  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<!DOCTYPE html>  
<html>  
<head>  
<meta http-equiv="Content-Type" content="text/html;  
charset=UTF-8">  
<title>Welcome</title>  
</head>  
<body>  
<%  
String username = (String) session.getAttribute("user");  
  
if (username == null ) {  
%>  
<jsp:forward page="1_loginform.jsp"/>  
<%          } else {  
    out.println("<h1>Welcome To Java Class," + username +  
    "</h1>");  
  
%>  
<a href="1_logout.jsp">Logout</a>  
<%          }  
%>
```

```
%>
```

```
</body>  
</html>
```

Logout.jsp

```
<%--  
Document      : 1_logout  
Created on    : 28-Jun-2020, 08:34:09  
Author       : user  
--%>  
  
<%@page contentType="text/html" pageEncoding="UTF-8"%>  
<!DOCTYPE html>  
<html>  
<head>  
<meta http-equiv="Content-Type" content="text/html;  
charset=UTF-8">  
<title>Login System</title>  
</head>  
<body>  
<% session.invalidate();%> <!-- HERE WE ARE INVALIDATE THE  
SESSION, SO THAT NO VALUES WILL BE PRESENT IN SESSION -->  
<jsp:forward page="1_loginform.jsp"/>  
  
</body>  
</html>
```

Output :



Welcome to Login Page !!!!

Username:

Password:



Welcome to Login Page !!!!

Username:

Password:



Welcome To Java Class,anusha

[Logout](#)

10. Write a JSP program to show how to use custom error page.

Program :

Error.jsp

```
<%@page isErrorPage="true" %>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Error</title>
</head>
<body>
<h1>Error</h1>
<p><%= exception.getMessage() %></p>
</body>
</html>
```

Index.jsp

```
<%@page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Error Demo</title>
</head>
<body>
<h1>Division</h1>
<%
if(true)
throw new RuntimeException("Hello error page!");
%>
</body>
</html>
```