

Department of Computer Science and Engineering

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10 March 2021

UCS1601 - Internet Programming

Assignment 4: Session Tracking

Objective:

Write a servlet program to track multiple users. Set a time limit for a user's session. Compare the session id's before and after the session expiration.

Code:

HTML:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <title>Simple Servlet Program</title>
5     <meta charset="utf-8">
6     <link rel="stylesheet" href="styles.css">
```

```

7 </head>
8
9 <body>
10     <h1>Welcome to the Session session!</h1>
11     <hr><br>
12     <form action="http://localhost:8080/A4/Session" method="
GET">
13         <input type="text" name="username">
14         <br><br>
15         <input type="submit" value="Start">
16     </form>
17 </body>
18 </html>

```

CSS:

```

1 body{
2     font-size: 16pt;
3     font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI
', 'Roboto', 'Oxygen',
4     'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', '
Helvetica Neue',
5     sans-serif;
6
7 }
8
9
10 h1{
11     font-size: 50pt;
12     text-align: center;
13     color: blue;
14 }
15
16 table, td, th, tr{
17     border: 2px solid black;
18     text-align: center;
19     width: 75%;
20     border-collapse: collapse;
21 }

```

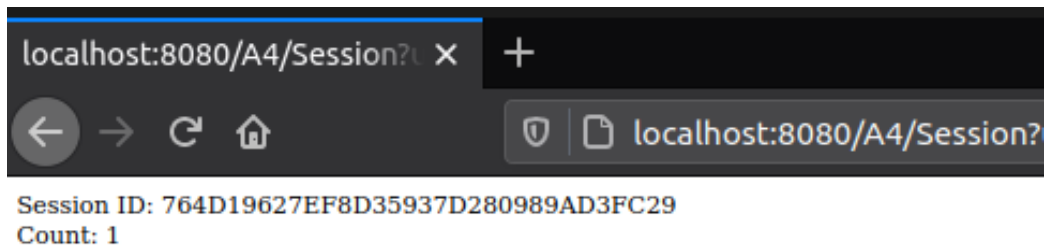
Java:

```
1 import java.io.*;
2 import javax.servlet.*;
3 import javax.servlet.http.*;
4
5 //Tomcat 10 or later: change imports from "javax.x" to "
  jakarta.x"
6
7 //Reference: https://www3.ntu.edu.sg/home/ehchua/programming/
  java/JavaServlets.html
8
9 public class Session extends HttpServlet{
10     public void doGet(HttpServletRequest request,
11         HttpServletResponse response)
12         throws ServletException, IOException{
13         response.setContentType("text/html;");
14         try{
15             int count;
16             PrintWriter out = response.getWriter();
17             HttpSession session = request.getSession();
18
19             session.setMaxInactiveInterval(10);
20             if(session.getAttribute("count") != null){
21                 count = (int)session.getAttribute("count"
22 );
23             }
24             else{
25                 count = 0;
26             }
27             count++;
28             session.setAttribute("count", count);
29             out.println("Session ID: "+session.getId()+"<
30 br>");
31             out.println("Count: "+count);
32         }
33         catch(Exception e){
34             System.out.println(e);
35         }
36     }
37 }
```

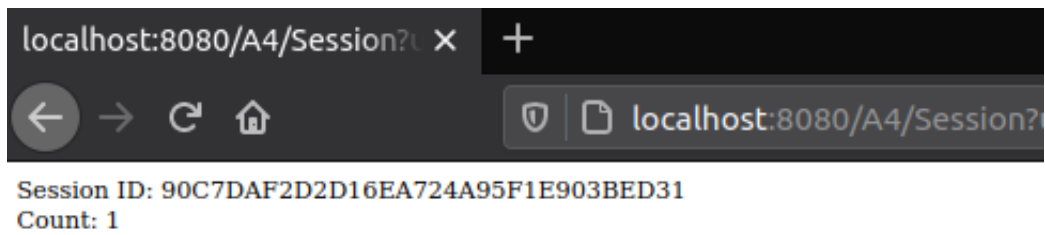
XML:

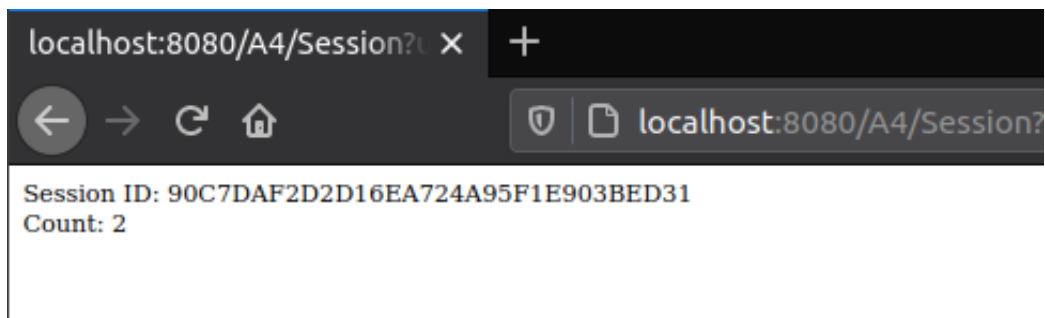
```
1 <web-app>
2   <servlet>
3     <servlet-name>Session</servlet-name>
4     <servlet-class>Session</servlet-class>
5   </servlet>
6
7   <servlet-mapping>
8     <servlet-name>Session</servlet-name>
9     <url-pattern>/Session</url-pattern>
10  </servlet-mapping>
11
12  <welcome-file-list>
13    <welcome-file>index.html</welcome-file>
14  </welcome-file-list>
15 </web-app>
```

Output:

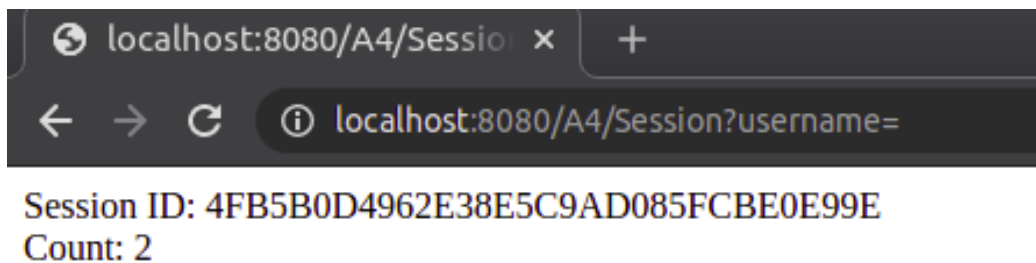
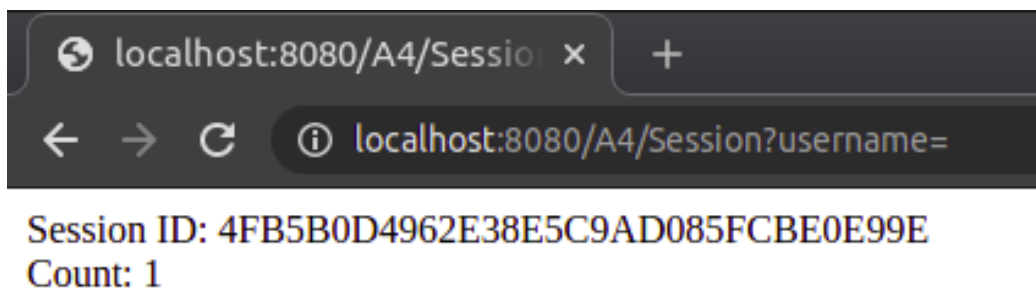


After session expiry:





Different browser:



After session expiry:

