

ShowSession.java

```
1 package coreservlets;
2
3 import java.io.*;
4
5
6
7
8
9 /** Servlet that uses session-tracking to keep per-client
10 *  access counts. Also shows other info about the session.
11 *  <p>
12 *  From <a
13 *  href="http://courses.coreservlets.com/Course-Materials/">th
14 *  e
15 *  coreservlets.com tutorials on servlets, JSP, Struts,
16 *  JSF, Ajax, GWT,
17 *  Spring, Hibernate, JPA, and Java</a>.
18 */
19
20 @WebServlet("/show-session")
21 public class ShowSession extends HttpServlet {
22     @Override
23     public void doGet(HttpServletRequest request,
24                       HttpServletResponse response)
25         throws ServletException, IOException {
26         response.setContentType("text/html");
27         HttpSession session = request.getSession();
28         synchronized(session) {
29             String heading;
30             Integer accessCount =
31                 (Integer)session.getAttribute("accessCount");
32             if (accessCount == null) {
33                 accessCount = 0;
34                 heading = "Welcome, Newcomer";
35             } else {
36                 heading = "Welcome Back";
37                 accessCount = accessCount + 1;
38             }
39         }
40     }
41 }
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36     // Integer is an immutable data structure. So, you
37     // cannot modify the old one in-place. Instead, you
38     // have to allocate a new one and redo setAttribute.
39     session.setAttribute("accessCount", accessCount);
40     PrintWriter out = response.getWriter();
41     String title = "Session Tracking Example";
42     String docType =
43         "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 \" +
44         "Transitional//EN\">\n";
45     out.println(docType +
46         "<HTML>\n" +
47         "<HEAD><TITLE>" + title +
48         "</TITLE></HEAD>\n" +
49         "<BODY BGCOLOR=\"#FDF5E6\">\n" +
50         "<CENTER>\n" +
51         "<H1>" + heading + "</H1>\n" +
52         "<H2>Information on Your Session:</H2>\n"
53         +
54         "<TABLE BORDER=1>\n" +
55         "<TR BGCOLOR=\"#FFAD00\">\n" +
56         "    <TH>Info Type<TH>Value\n" +
57         "<TR>\n" +
58         "    <TD>ID\n" +
59         "    <TD>" + session.getId() + "\n" +
60         "<TR>\n" +
61         "    <TD>Creation Time\n" +
62         "    <TD>" +
63         new Date(session.getCreationTime()) +
64         "\n" +
65         "<TR>\n" +
66         "    <TD>Time of Last Access\n" +
67         "    <TD>" +
68         new Date(session.getLastAccessedTime()) +
69         "\n" +
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66         "<TR>\n" +
67         "    <TD>Number of Previous Accesses\n" +
68         "    <TD>" + accessCount + "\n" +
69         "</TABLE>\n" +
70         "</CENTER></BODY></HTML>");
71     }
72 }
73 }
74 }
```