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|  <b>Marwadi University</b><br>Marwadi Chandarana Group |  | <b>Marwadi University</b><br><b>Faculty of Technology</b><br><b>Department of Information and Communication Technology</b> |  |
| <b>Subject: Advanced Java</b><br><b>(01CT1623)</b>   | <b>Aim:</b> Session management using servlet                                     |  |  |
| <b>Experiment :- 6</b>   | <b>Date:- 01-04-2025</b>   | <b>Enrollment No:- 92200133003</b>   |  |

### **CODE :-**

#### **SessionCounterListner:**

```
package com.sessionmanagement;

import javax.servlet.http.HttpSessionEvent;
import javax.servlet.http.HttpSessionListener;

public class SessionCounterListner implements HttpSessionListener {
    private static int activeSessions = 0;

    @Override
    public void sessionCreated(HttpSessionEvent se) {
        activeSessions++;
        System.out.println("New session created. Active sessions: " + activeSessions);
    }

    @Override
    public void sessionDestroyed(HttpSessionEvent se) {
        if (activeSessions > 0) {
            activeSessions--;
        }
        System.out.println("Session destroyed. Active sessions: " + activeSessions);
    }

    public static int getActiveSessions() {
        return activeSessions;
    }
}
```

#### **LogOutServlet :**

```
package com.sessionmanagement;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

@WebServlet("/LogoutServlet")
public class LogoutServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        HttpSession session = request.getSession(false);
        if (session != null) {
            session.invalidate();
            out.println("<p>Session invalidated successfully.</p>");
        } else {
            out.println("<p>No active session found.</p>");
        }
        out.println("<a href='SessionServlet'>Start New Session</a>");
    }
}
```

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|---|--|------------------------------------|
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| <b>Subject: Advanced Java</b><br><b>(01CT1623)</b>  | <b>Aim:</b> Session management using servlet   |                                    |
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### SessionsServlet :

```
package com.sessionmanagement;

import com.sessionmanagement.SessionCounterListener;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

@WebServlet("/SessionServlet")
public class SessionServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Get or create session
        HttpSession session = request.getSession(true);

        // Store user name in session
        String userName = (String) session.getAttribute("userName");
        if (userName == null) {
            userName = "Guest_" + session.getId().substring(0, 5);
            session.setAttribute("userName", userName);
        }

        out.println("<html><body>");
        out.println("<h3>Session Tracking Example</h3>");
        out.println("<p>Session ID: " + session.getId() + "</p>");
        out.println("<p>Welcome, " + userName + "!</p>");
        out.println("<p>Active Sessions: " + SessionCounterListener.getActiveSessions() + "</p>");

        out.println("<br><a href='SessionServlet'>Refresh Page</a>");
        out.println("<br><a href='LogoutServlet'>Invalidate Session</a>");

        out.println("</body></html>");
    }
}
```

### OUTPUT :

