**CODE :-**

**SessionCounterListner:**

package com.sessionmanagement;

import javax.servlet.http.HttpSessionEvent;

import javax.servlet.http.HttpSessionListener;

public class SessionCounterListener 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>");

}

}

**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 :**

