**Objective:-** A servlet program to do session tracking and session counter using sessionListener.

**Code :-**

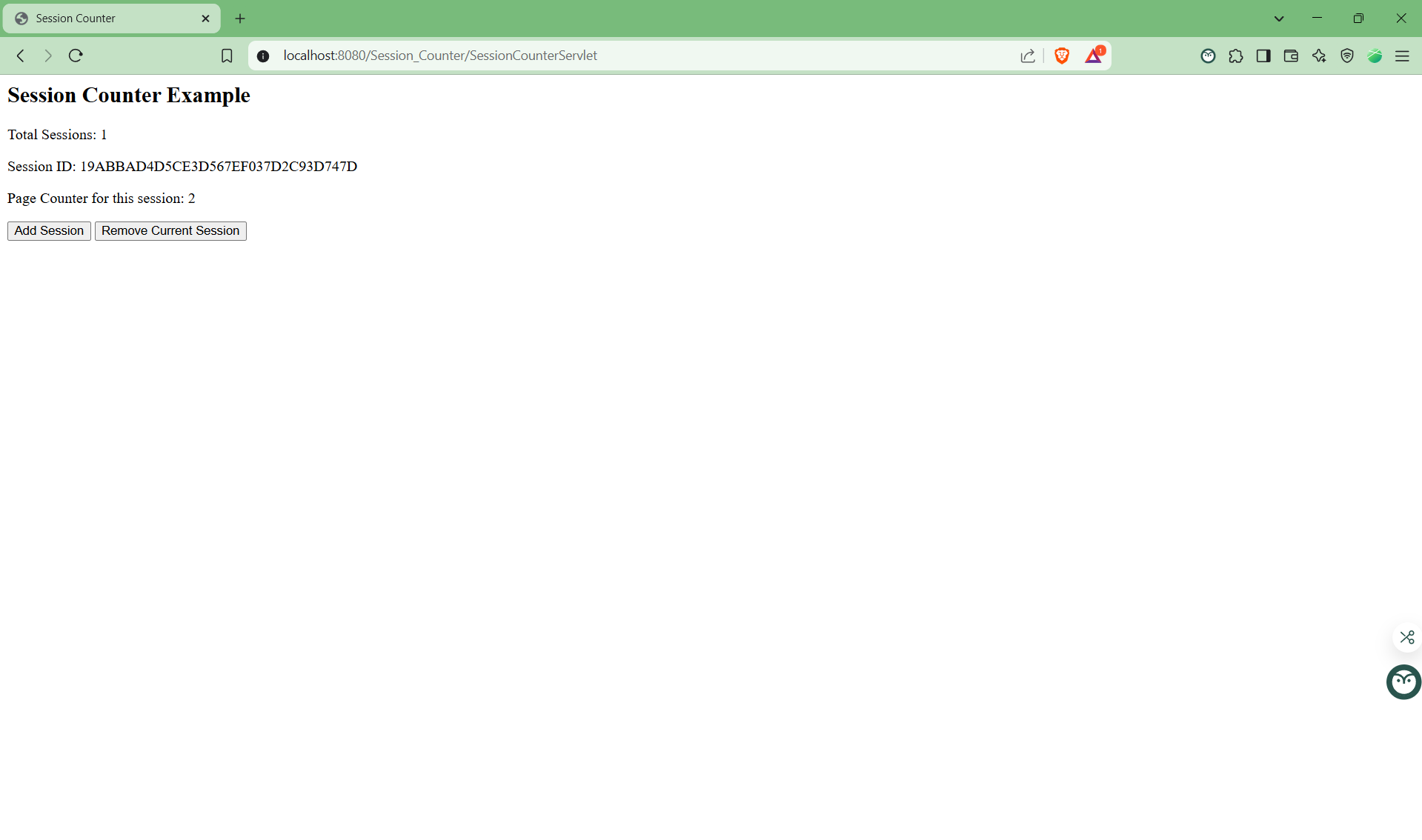
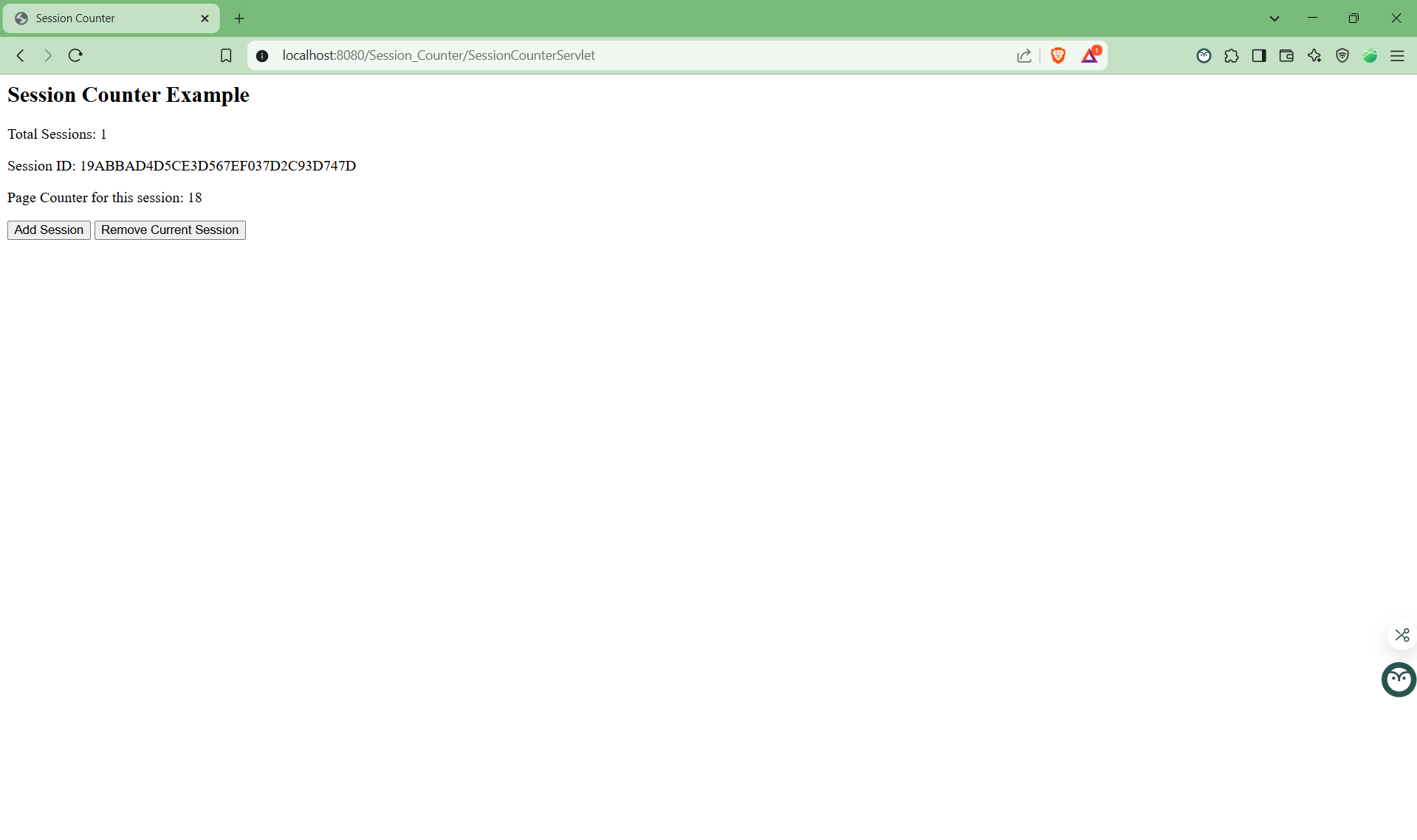
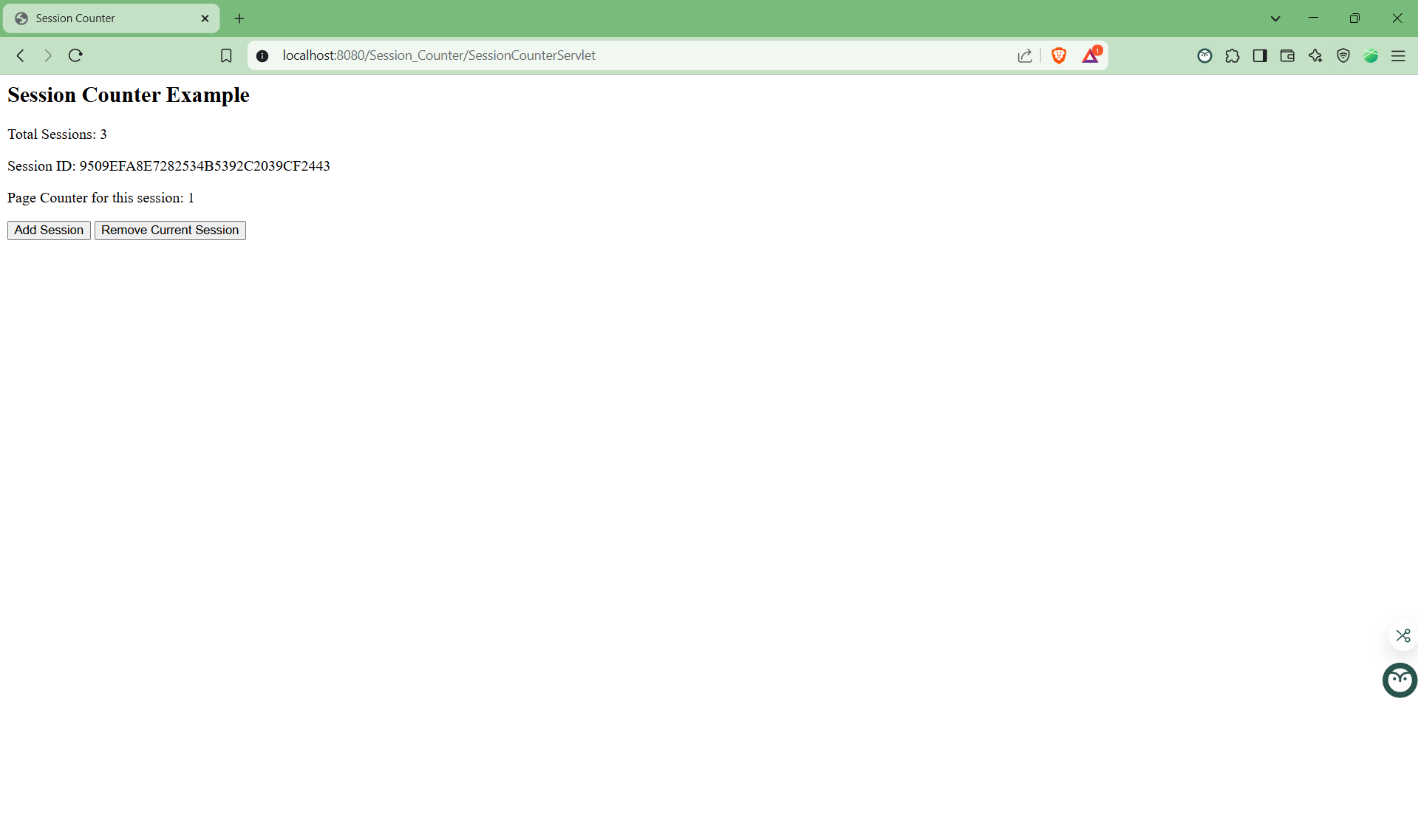
**SessionCounterListener.java**

package com.sessionmanagement;  
  
import javax.servlet.annotation.WebListener;  
import javax.servlet.http.\*;  
  
@WebListener  
public class SessionCounterListener implements HttpSessionListener {  
  
 private static int *activeSessions*;  
  
 public static int getActiveSessions() {  
 return *activeSessions*;  
 }  
  
 @Override  
 public void sessionCreated(HttpSessionEvent se) {  
 *activeSessions*++;  
// System.out.println("Session Created:: Total Sessions: " + activeSessions);  
 se.getSession().setAttribute("counter", new Counter());  
 }  
  
 @Override  
 public void sessionDestroyed(HttpSessionEvent se) {  
 *activeSessions*--;  
// System.out.println("Session Destroyed:: Total Sessions: " + activeSessions);  
 }  
  
 public class Counter {  
 private int count;  
  
 public int getCount() {  
 return count;  
 }  
  
 public void increment() {  
 count++;  
 }  
 }  
}

**SessionCounterServlet.java**

package com.sessionmanagement;  
  
import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.\*;  
import java.io.IOException;  
import java.io.PrintWriter;  
  
@WebServlet("/SessionCounterServlet")  
public class SessionCounterServlet extends HttpServlet {  
  
 @Override  
 protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws IOException {  
 resp.setContentType("text/html");  
 PrintWriter out = resp.getWriter();  
  
 HttpSession session = req.getSession();  
 session.setMaxInactiveInterval(60);  
 SessionCounterListener.Counter counter = (SessionCounterListener.Counter) session.getAttribute("counter");  
  
 counter.increment();  
  
 out.println("<html><head><title>Session Counter</title></head><body>");  
 out.println("<h2>Session Counter Example</h2>");  
 out.println("<p>Total Sessions: " + SessionCounterListener.*getActiveSessions*() + "</p>");  
 out.println("<p>Session ID: " + session.getId() + "</p>");  
 out.println("<p>Page Counter for this session: " + counter.getCount() + "</p>");  
  
 out.println("<form action='SessionCounterServlet' method='POST'>");  
 out.println("<input type='submit' name='action' value='Add Session'> ");  
 out.println("<input type='submit' name='action' value='Remove Current Session'>");  
 out.println("</form>");  
  
 out.println("</body></html>");  
 }  
  
 @Override  
 protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {  
 String action = req.getParameter("action");  
 if (action != null) {  
 if (action.equals("Add Session")) {  
 Cookie[] cookies = req.getCookies();  
 for (Cookie cookie : cookies) {  
 if (cookie.getName().equals("JSESSIONID")) {  
 cookie.setMaxAge(0);  
 resp.addCookie(cookie);  
 resp.sendRedirect(req.getContextPath() + "/SessionCounterServlet");  
 }  
 }  
 } else if (action.equals("Remove Current Session")) {  
 HttpSession session = req.getSession(false);  
 if (session != null) {  
 session.setMaxInactiveInterval(60);  
 session.invalidate();  
 }  
 resp.sendRedirect(req.getContextPath() + "/SessionCounterServlet");  
 return;  
 }  
 }  
  
 doGet(req, resp);  
 }  
}

**Output:-**

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