## **Experiment No: 13 Implement**

### session management using servlet.

```
Program:
Index.html:
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Session Management</title>
</head>
<br/><body style="font-family: Arial, sans-serif; background-color: #f4f4f4; text-align: center; padding: 50px;">
  <h1 style="color: #333;">Session Management Example</h1>
  Click the link below to start a session:
  <a href="SessionServlet" style="color: #007bff; text-decoration: none;">Start a session</a>
</body>
</html>
Web.xml:
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
 <servlet>
  <servlet-name>SessionServlet/servlet-name>
  <servlet-class>SessionServlet</servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>SessionServlet/servlet-name>
  <url>url-pattern>/SessionServlet</url-pattern></url
 </servlet-mapping>
 <welcome-file-list>
  <welcome-file>index.html</welcome-file>
 </welcome-file-list>
</web-app>
SessionServlet.java:
import jakarta.servlet.ServletException; import
jakarta.servlet.http.HttpServlet; import
jakarta.servlet.http.HttpServletRequest; import
jakarta.servlet.http.HttpServletResponse; import
<u>jakarta.servlet.http.HttpSession</u>; import
java.io.IOException; import java.io.PrintWriter;
```

```
public class <u>SessionServlet</u> extends <u>HttpServlet</u> { protected void doGet(<u>HttpServletRequest</u> request, 

<u>HttpServletResponse</u> response) throws <u>ServletException</u>, <u>IOException</u> { <u>HttpSession</u> session = 

request.getSession(); session.setAttribute("exampleAttribute", "This is a session attribute.");
```

```
response.setContentType("text/html");
                                          <u>PrintWriter</u> out = response.getWriter();
                                                                                     out.println("<html>");
out.println("<head>");
                          out.println("<title>Session Management Example</title>");
out.println("</head>");
                           out.println("<body style='font-family: Arial, sans-serif; background-color:
#f0f0f0;'>");
                 out.println("<h2 style='color: #333;'>Session Management Example</h2>");
out.println("<h3>Session Information:</h3>");
                                                  out.println("<strong>Session ID:</strong> " +
session.getId() + "");
                             out.println("<strong>Attribute set:</strong> " +
session.getAttribute("exampleAttribute") + "");
                                                       out.println("</body>");
                                                                                  out.println("</html>");
}
```

#### **Output:**

# **Session Management Example**

Click the link below to start a session:

Start a session

## Session Management Example

### **Session Information:**

Session ID: AB9EF12B39AD6CF93B48F1FD2A656548

Attribute set: This is a session attribute.

## **Experiment No: 14**

## Implement simple demo program using JSP.

#### **Program:**

#### demo.jsp

#### **Output:**

## **Welcome to Tomcat! Simple JSP Program**

This is a concise and informative JSP example.

#### JSP Syntax:

- JSP code is enclosed in <% %> tags.
- You can include Java imports using <%@ page import="package.name.\*" %>.
- · HTML and JSP elements can be combined seamlessly.
- Inline styles can be applied using the 'style' attribute.