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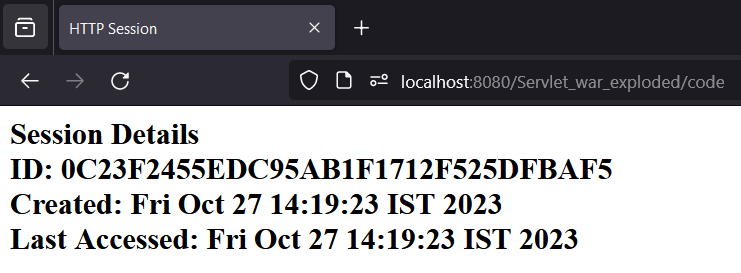
Practical No: 23

**1) Write a Program to Session id and Session time in Browser Window.**

**Servlet:**

package ajp.servlet;  
  
import javax.servlet.\*;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.\*;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.util.Date;   
@WebServlet("/code")  
public class CodeServlet extends HttpServlet {  
 public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException, ServletException {  
response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 HttpSession session = request.getSession(true);  
 Date created = new Date(session.getCreationTime());  
 Date accessed = new Date(session.getLastAccessedTime());  
 out.println("<html>");  
 out.println("<head>");  
 out.println("<title>");  
 out.println("HTTP Session");  
 out.println("</title>");  
 out.println("</head>");  
 out.println("<body>");  
 out.println("<h2>");  
 out.println("Session Details");  
 out.println("<br>");  
 out.println("ID " + session.getId());  
 out.println("<br>");  
 out.println("Created: " + created);  
 out.println("<br>");  
 out.println("Last Accessed: " + accessed);  
 out.println("<br>");  
 out.println("</h2>");  
 out.println("</body>");  
 out.println("</html>");  
 }  
}

**OUTPUT:**



**2) Write the output of following code considering below HTML is front end and servlet as back end.**

**CODE:**

**MainServlet:**

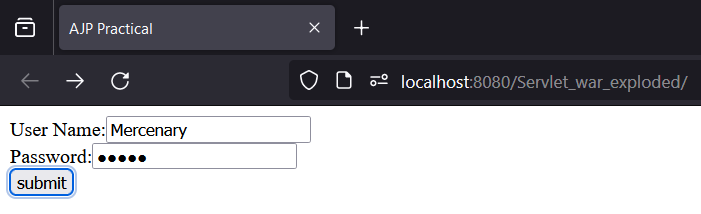
package ajp.servlet;  
  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import javax.servlet.http.HttpSession;  
import java.io.IOException;  
import java.io.PrintWriter;   
@WebServlet(name = "mainServlet", value = "/main")  
public class MainServlet extends HttpServlet {  
 public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 String name = request.getParameter("userName");  
 String password = request.getParameter("userPassword");  
 out.print("Hello " + name);  
 out.print("Your Password is: " + password);  
 HttpSession session = request.getSession();  
 session.setAttribute("uname", name);  
 session.setAttribute("upass", password);  
 out.print("<a href='code'>view details</a>");  
 out.close();}}

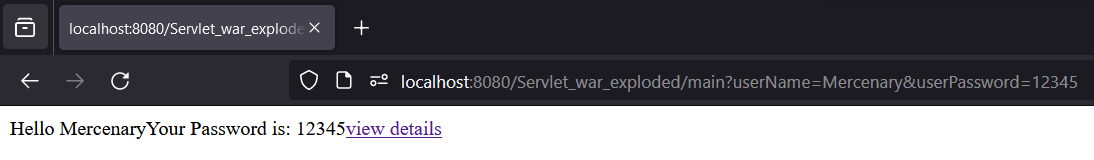
**CodeServlet**:

package ajp.servlet;   
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.\*;  
import java.io.\*;  
import java.io.PrintWriter;  
  
@WebServlet("/code")  
public class CodeServlet extends HttpServlet {  
 public void doGet(HttpServletRequest request, HttpServletResponse response){  
 try{ response.setContentType("text/html");  
 PrintWriter pwriter = response.getWriter();  
 HttpSession session=request.getSession(false);  
 String myName=(String)session.getAttribute("uname");  
 String myPass=(String)session.getAttribute("upass");  
 pwriter.print("Name: "+myName+" Pass: "+myPass);  
 pwriter.close();  
 }catch(Exception exp){  
 System.out.println(exp); }}}

**HTML:**<html>  
<head><title>AJP Practical</title></head>  
<body>  
<form action="main">  
 User Name:<input type="text" name="userName"/><br/>  
 Password:<input type="password" name="userPassword"/><br/>  
 <input type="submit" value="submit"/>  
</form>  
</body>  
</html>

**OUTPUT:**





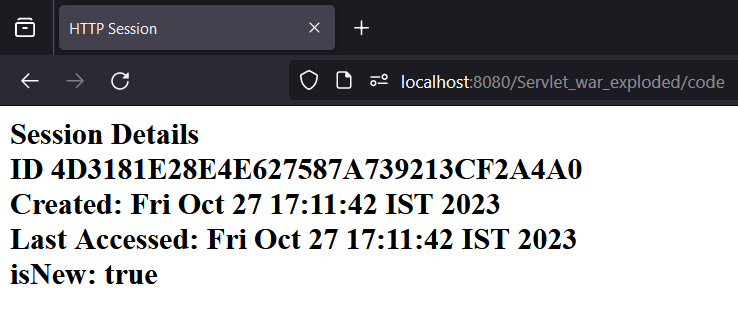
**3) Develop servlet program to display various details about session using HttpSession methods.**

**CODE:**

**Servlet:**

package ajp.servlet;  
  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.\*;  
import javax.servlet.\*;  
import java.io.\*;  
import java.util.Date;  
import java.io.PrintWriter;  
  
@WebServlet("/code")  
public class CodeServlet extends HttpServlet {  
  
 public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException, ServletException  
 {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
  
 HttpSession session = request.getSession(true);  
  
 Date created = new Date(session.getCreationTime());  
 Date accessed = new Date(session.getLastAccessedTime());  
 out.println("<html>");  
 out.println("<head>");  
 out.println("</head>");  
 out.println("<body><center>");  
 out.println("<h1>");  
 out.println("Session Details");  
 out.println("<br>");  
 out.println("ID " + session.getId());  
 out.println("<br>");  
 out.println("Created: " + created);  
 out.println("<br>");  
 out.println("Last Accessed: " + accessed);  
 out.println("<br>");  
 out.println("isNew: " + session.isNew());  
  
 out.println("<br>");out.println("</h1>");  
 out.println("</center></body>");  
 out.println("</html>");  
 }  
}

**OUTPUT:**



**4) Develop a program to display last accessed time of session. And Expire the session with specified time.**

**CODE:**

**Servlet:**

import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.\*;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.util.Date;  
@WebServlet("/code")  
public class CodeServlet extends HttpServlet {  
 public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException, ServletException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 HttpSession session = request.getSession(true);  
 Date accessed = new Date(session.getLastAccessedTime());  
 session.setMaxInactiveInterval(5);  
 out.println("<html><head><title>HTTP Sessions</title></head><body><h2>Last Accessed: " + accessed + "<br>After 5 Seconds Session Expires</h2></body></html>");  
 }  
}

**OUTPUT:**

