



Experiment: 2

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Subject Name: Advanced Internet Programming

Subject Code: 23CAH-551

Aim:

Create a servlet that describes how to use the HttpSession object to find out the creation time and the last-accessed time for a session. We would associate a new session with the request if one does not already exist

A. The task is to:

Develop a web application that includes an HTML form with fields for user name and password then create a session after checking if the session exists and print out the creation time and last accessed time.

B. Steps of Experiment:

- Open IDE(Integrated development environment) like NetBeans.
- Start by creating a new project file.
- Start by creating a new class file with the same name as the form action name.
- Structurally write your code taking care of indentation to maintain readability.
- Execute your code.
- Output in the browser window.

C. Practical Code:

(HTML CODE GET Method)

```
<body>

<<form action="action" method="get">

    <div class="ring">
        <i style="--clr:#00ff0a;"></i>
        <i style="--clr:#ff0057;"></i>
        <i style="--clr:#fffd44;"></i>
        <div class="login">
            <h2>Login</h2>
            <div class="inputBx">
                <input type="text" name="uname" placeholder="First Name">
            </div>
            <div class="inputBx">
                <input type="password" name="pass" placeholder="Password">
            </div>
            <div class="inputBx">
                <input type="submit" value="Submit">
            </div>
        </div>
    </div>
</form>
</body>
```

(JAVA action file)

```
@WebServlet(urlPatterns = {"/action"})
public class action extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        String name = request.getParameter("uname");
        String pass = request.getParameter("pass");

        if(pass.equals("1234"))
        {
            //creating a session
            HttpSession session = request.getSession();
            session.setAttribute("user", name);
            response.sendRedirect("Welcome");
        }
    }
}
```

(JAVA Welcome file)

```
* @author Nitish
*/
@WebServlet(urlPatterns = {"/Welcome"})
public class Welcome extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        HttpSession session = request.getSession();
        String user = (String) session.getAttribute("user");
        out.println("Hello " + user);
        Date creationTime = new Date(session.getCreationTime() );
        Date lastAccessed = new Date(session.getLastAccessedTime());
        Date now = new Date();
        DateFormat formatter = DateFormat.getDateInstance(DateFormat.MEDIUM,DateFormat.MEDIUM);

        out.println("<html>");
        out.println("<head>");
        out.println("<title>Displaying the Session Creation and Last-Accessed Time</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h2>Session Creation and Last-Accessed Time</h2>");
        out.println("The time and date now is: " + formatter.format(now) + "<br><br>");
        out.println("The session creation time: HttpSession.getCreationTime( ): " + formatter.format(creationTime) + "<br><br>");
        out.println("The last time the session was accessed: HttpSession.getLastAccessedTime( ): " + formatter.format(lastAccessed));
        out.println("</body>");
        out.println("</html>");
    }
}
```

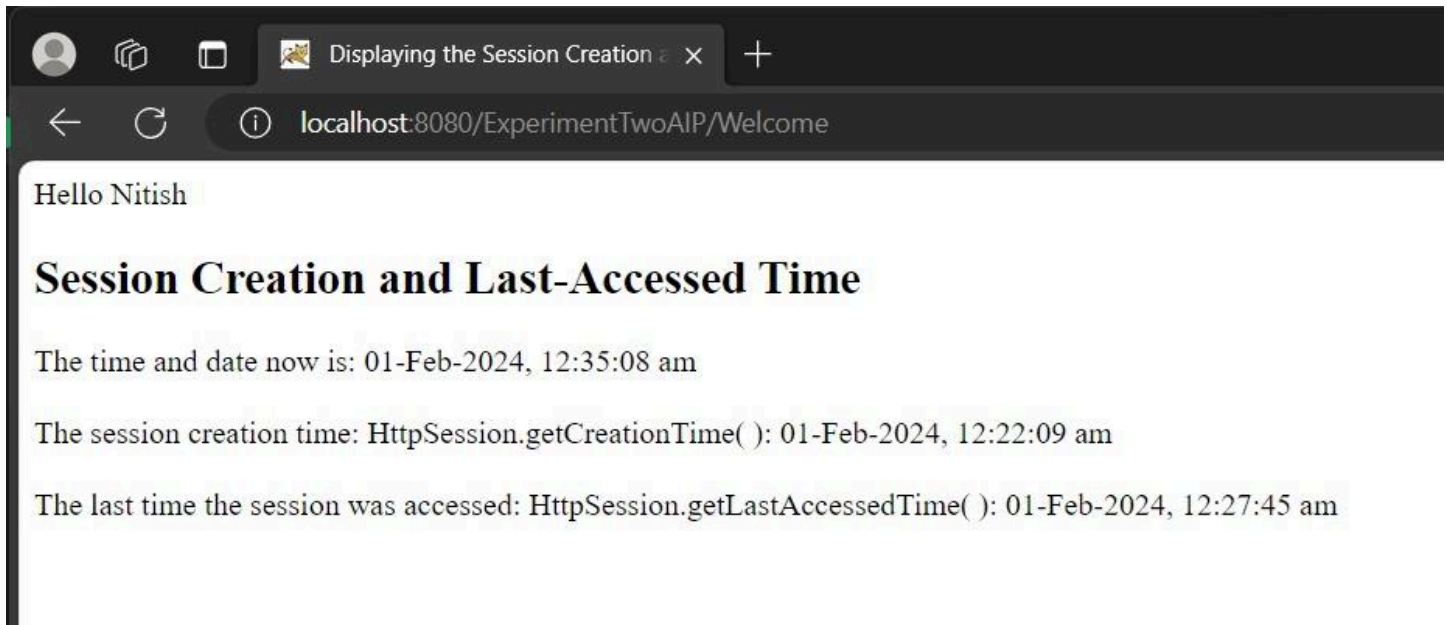


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D. Output:



E. Learning outcomes:

- Understand how to do the setup of NetBeans and TomCat.
- Understand how to create an HTML page in NetBeans.
- Understand how to create a new package and class of Java.
- Understand concepts of GET and POST methods.
- Understand how to create a session and get creation time and last access time.
- Understand how to import libraries directly.