

EXP : 7	COOKIE TO STORE USER INFORMATION
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AIM:

Write a Servlet program to store a user's preferences (like theme or language) using cookies. Retrieve and display these preferences on subsequent visits.

CODE:**Cookie.html:**

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>COOKIE</title>

</head>

<body>

<form action="/gaurav/cookie" method="post" >

<label for="name">USER-NAME</label>

<input type="text" name=username placeholder="Enter the User-name" required>

<br>

<br>

<label for="password">PASSWORD

</label>

<input type="text" name=password placeholder="Enter the Password" required>

<br>

<input type = "submit" value= "signin">

</form>

</body>

</html>
```

Cookie.java:

```

package com.gaurav.servlet;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class cookie
 */
@WebServlet("/cookie")
public class cookie extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public cookie() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
    }
}

```

```

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    String user = request.getParameter("username");
    String pass = request.getParameter("password");
    if(user.equals("123") && pass.equals("123")){

        Cookie username = new Cookie("username", user);
        username.setMaxAge(60*60);
        username.setPath("/");
        response.addCookie(username);

        response.sendRedirect(request.getContextPath() + "/getcookie");
    }
}

```

GetCookie.java:

```

package com.gaurav.servlet;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```

/**
 * Servlet implementation class getcookie
 */
@WebServlet("/getcookie")
public class getcookie extends HttpServlet {

    private static final long serialVersionUID = 1L;
    private static final PrintWriter NULL = null;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public getcookie() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        Cookie[] cookies = request.getCookies();
        String cookieName = "username";
        if (cookies != null) {
            for (Cookie cookie : cookies) {
                if (cookieName.equals(cookie.getName())) {
System.out.println("username "+cookie.getName());
PrintWriter out = response.getWriter();
out.println(cookie.getValue());
                }
            }
        }
    }
}

```

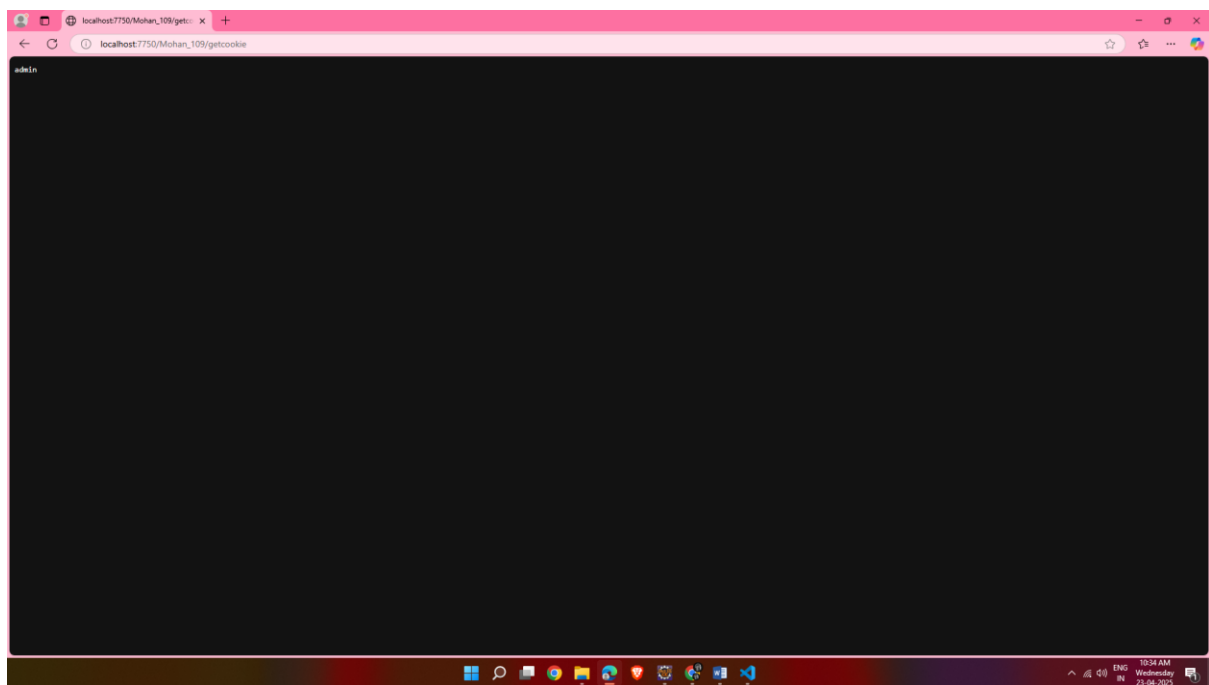
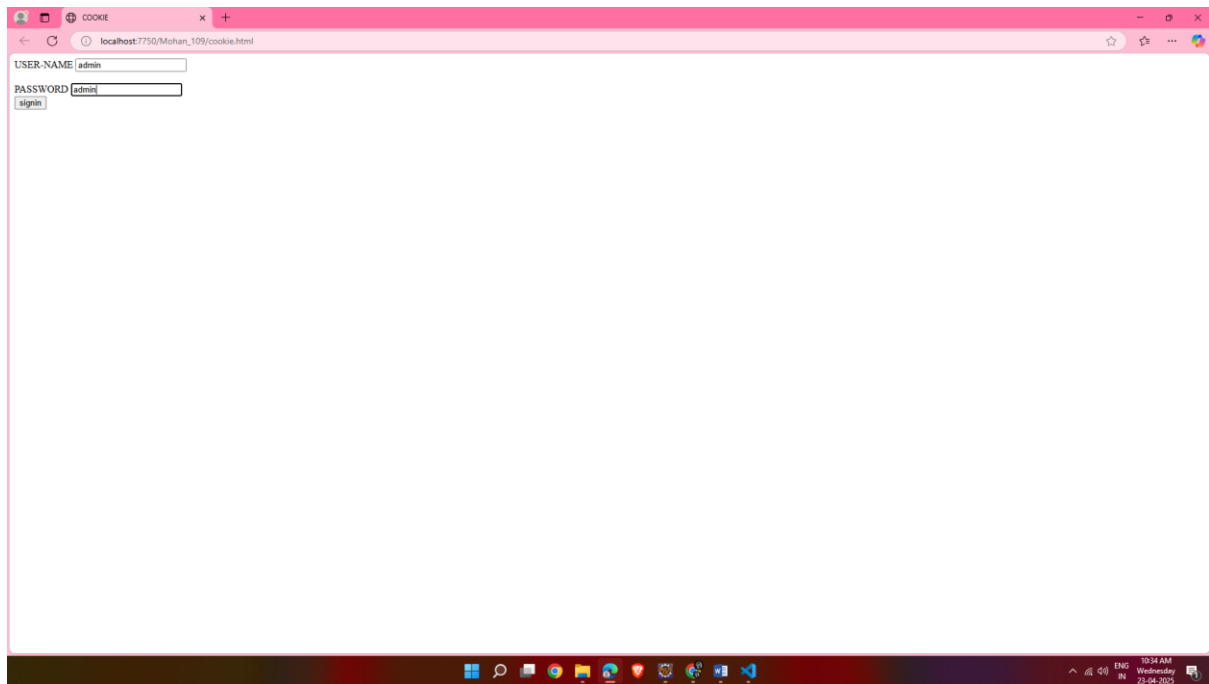
```
/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}
}
```

The screenshot displays an IDE environment with the following components:

- Project Explorer (Left):** Shows a project named 'CookieServlet' with a package 'com.mohan.servlet'. The source files include 'CookieServlet.java', 'getCookie.java', 'login.html', 'login.java', 'login.jsp', 'NewFile.html', 'NewFile.jsp', 'login.html', 'Session.html', 'index.html', and 'index.jsp'.
- Code Editor (Center):** Contains the source code for 'CookieServlet.java'. The code implements a servlet that sets a cookie with 'username' and 'password' attributes. The code is as follows:

```
1 package com.mohan.servlet;
2
3 import java.io.IOException;
4
5 /**
6  * Servlet implementation class cookie
7  */
8 public class CookieServlet extends HttpServlet {
9     private static final long serialVersionUID = 1L;
10
11     /**
12      * @see HttpServlet#HttpServlet()
13      */
14     public CookieServlet() {
15         super();
16         // TODO Auto-generated constructor stub
17     }
18
19     /**
20      * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
21      */
22     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
23         response.getWriter().append("Served at: ").append(request.getContextPath());
24     }
25
26     /**
27      * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
28      */
29     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
30         String user = request.getParameter("username");
31         String pass = request.getParameter("password");
32         if (user.equals("admin") && pass.equals("admin")) {
33             Cookie username = new Cookie("username", user);
34             Cookie password = new Cookie("password", pass);
35             response.addCookie(username);
36             response.addCookie(password);
37             response.sendRedirect(request.getContextPath() + "/getcookie");
38         }
39     }
40 }
```
- Console (Bottom):** Shows the output of the application, indicating that the servlet is running successfully and the cookie is set. The output is as follows:

```
Apr 23, 2023 10:32:32 AM org.apache.catalina.core.StandardContext reload
INFO: Reloading Context with name [/mohan_servlet] is completed.
```



RESULT:

Handling user information using cookie is done using servlet successfully.