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Instructions
- There are **2** questions in this assignment.
- Email/paper/other modes of submissions will not be accepted.
- Upload a word **version** of this document.
- Assignment submitted after due date will not be evaluated and a score of zero will be awarded.
- Plagiarism may lead to award of zero marks.

Due Date: 5pm, 4th November 2024

Submitting this Assignment

You will submit (upload) this assignment in MS Teams. Name this document as GLA1_AJPODD2024_John_Doe.doc in case your name is John Doe, and this graded lab assignment is 1 of course whose acronym is AJP, and offered in ODD 2024. Paste your code after each question, paste the screenshot of output, save and upload the document.

Grading Scheme: This assignment has 5 marks.

Question 1:

Cookie Expiration Example
- Write a servlet that creates a temporary cookie (expires in 1 minute).
- Display a message indicating whether the cookie is present or has expired each time the page is visited.

```
public class CookieServlet extends HttpServlet {
private static final long serialVersionUID = 1L;

   protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {       response.setContentType("text/html");
```

```java
        PrintWriter out = response.getWriter();
Cookie[] cookies = request.getCookies();
boolean cookieExists = false;

    if (cookies != null) {           for
(Cookie cookie : cookies) {
        if ("tempCookie".equals(cookie.getName())) {
            cookieExists = true;
            break;
        }
      }
    }

    if (!cookieExists) {
        Cookie tempCookie = new Cookie("tempCookie", "temporaryValue");
tempCookie.setMaxAge(60);  // Set expiration time to 60 seconds (1 minute)
response.addCookie(tempCookie);
        out.println("<h2>Temporary cookie created. It will expire in 1 minute.</h2>");
    } else {
        out.println("<h2>Welcome back! Your cookie is still active.</h2>");
    }

    out.println("<p>Refresh the page to see if the cookie has expired.</p>");
out.close();
  }
}
```
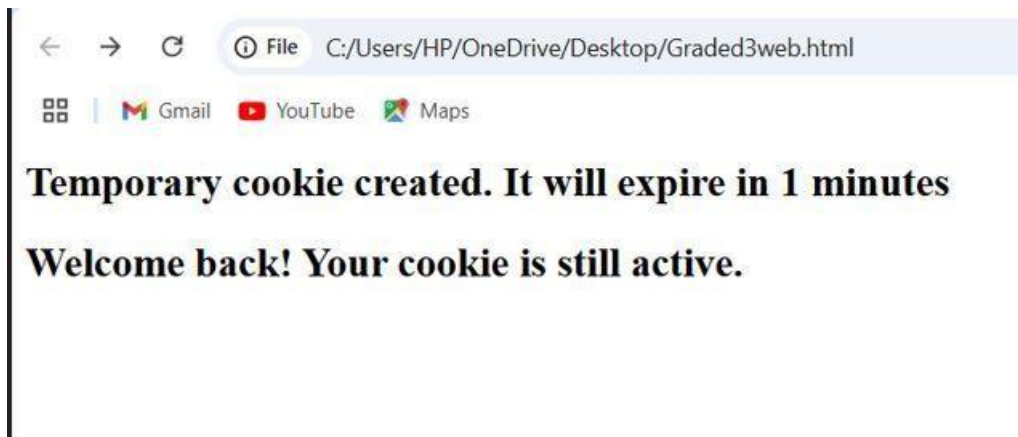
OUTPUT

Temporary cookie created. It will expire in 1 minutes

Welcome back! Your cookie is still active.

Question 2:
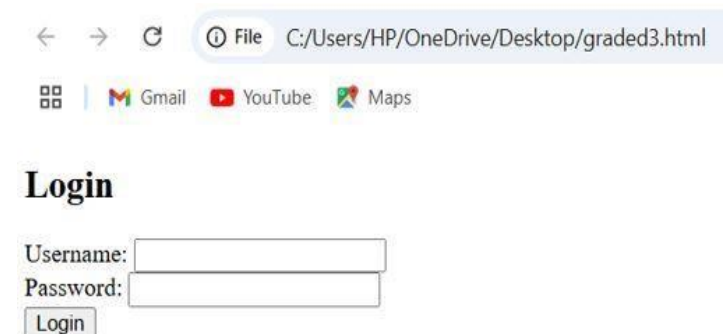
Logout Feature with Session Invalidation
  • Create a simple login and logout system with JSP and servlets.
  • Use session attributes to track if a user is logged in.
  • Provide a logout option that invalidates the session and redirects the user to the login page.

```html
<!DOCTYPE html>
<html>
<head>
  <title>Login</title>
</head>
<body>
  <h2>Login</h2>
  <form action="LoginServlet" method="post">
    Username: <input type="text" name="username" required><br>
    Password: <input type="password" name="password" required><br>
    <input type="submit" value="Login">
  </form>

    <p style="color:red;">Invalid username or password!</p>

</body>
</html>
```
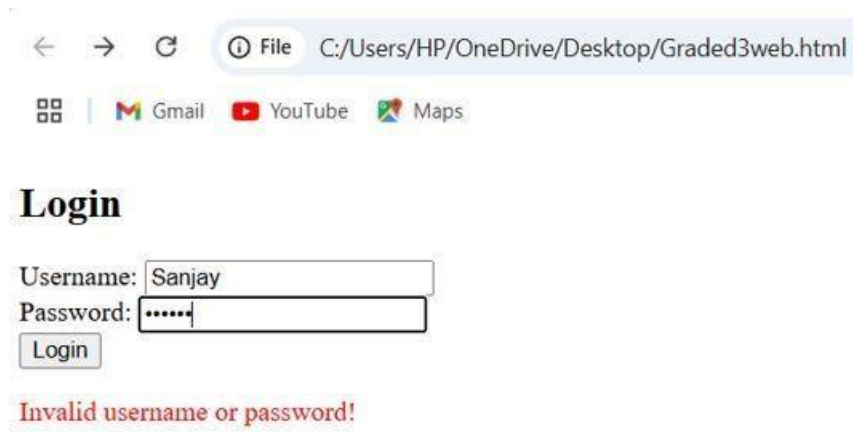
OUTPUT

Welcome, <%= username %>!

Login

Username: Sanjay
Password: ••••••

[Login]

Invalid username or password!

```
<!DOCTYPE html>
<html>
<head>
  <title>Home</title>
</head>
<body>
  <h2>Welcome, <%= session.getAttribute("username") %>!</h2>
  <a href="LogoutServlet">Logout</a>
</body>
</html>
```

OUTPUT

Login

Username: [   ]
Password: [   ]
[Login]

Invalid username or password!

Welcome, <%= session.getAttribute("username") %>!

[Logout](#)