

Week-7

Cookies and Session

1.Aim: To create and read cookies in a web application, storing user details.

Source Code:

Index.html:

```
<!DOCTYPE html>
<html>
<head>
  <title>Cookie Demo</title>
</head>
<body>
  <h1>Welcome</h1>

  <!-- Form to input username and branch -->
  <form action="CreateCookieServlet" method="post">
    <label>Enter Username:</label>
    <input type="text" name="username" required><br><br>

    <label>Enter Roll number:</label>
    <input type="text" name="rollnumber" required><br><br>

    <input type="submit" value="Create Cookies">
  </form>

  <p><a href="ReadCookieServlet">Read Cookies</a></p>
</body>
</html>
```

CreateCookieServlet.java:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.servlet.annotation.WebServlet;

@WebServlet("/CreateCookieServlet")
public class CreateCookieServlet extends HttpServlet {
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
```

```

response.setContentType("text/html");
PrintWriter out = response.getWriter();

// Get username and roll number from form input
String username = request.getParameter("username");
String rollnumber = request.getParameter("rollnumber");

if ((username != null && !username.trim().isEmpty()) &&
    (rollnumber != null && !rollnumber.trim().isEmpty())) {

    // Create cookies
    Cookie userCookie = new Cookie("username", username);
    Cookie rollCookie = new Cookie("rollnumber", rollnumber);

    // Set expiry time (1 day)
    userCookie.setMaxAge(24 * 60 * 60);
    rollCookie.setMaxAge(24 * 60 * 60);

    // Send cookies to browser
    response.addCookie(userCookie);
    response.addCookie(rollCookie);

    out.println("<h2>Cookies Created Successfully!</h2>");
    out.println("<p>Username: " + username + "</p>");
    out.println("<p>Roll Number: " + rollnumber + "</p>");
    out.println("<p><a href='ReadCookieServlet'>Click here to read the cookies</a></p>");
} else {
    out.println("<h2>Please enter valid username and roll number!</h2>");
}
}

ReadCookieServlet.java:
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.servlet.annotation.WebServlet;

@WebServlet("/ReadCookieServlet")
public class ReadCookieServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)

```

```
throws ServletException, IOException {

response.setContentType("text/html");
PrintWriter out = response.getWriter();

Cookie[] cookies = request.getCookies();
String username = null, rollnumber = null;

if (cookies != null) {
    for (Cookie c : cookies) {
        if (c.getName().equals("username")) {
            username = c.getValue();
        } else if (c.getName().equals("rollnumber")) {
            rollnumber = c.getValue();
        }
    }
}

if (username != null && rollnumber != null) {
    out.println("<h2>Welcome back!</h2>");
    out.println("<p>Username: " + username + "</p>");
    out.println("<p>Roll Number: " + rollnumber + "</p>");
} else {
    out.println("<h2>No Cookies Found!</h2>");
}
}
```

Output:

Welcome

Enter Username:

Enter Roll number:

[Read Cookies](#)

Cookies Created Successfully!

Username: Vasavi

Roll Number: 238w1a12c5

[Click here to read the cookies](#)

Welcome back!

Username: Vasavi

Roll Number: 238w1a12c5