

Advanced Java Lab – 23IT5351

Week-7: Cookies & Sessions.

Roll Number: 238W1A1296

1.AIM: To create a web app to demonstrate cookies.

Source code:

➤ **Index.html:**

```
<!DOCTYPE html>
<html>
  <head>
    <title>Cookie Example</title>
  </head>
  <body>
    <form action="servlet1" method="post">
      <label>Enter your name :</label>
      <input type='text' name='name'><br><br>
      <label>Enter your Roll number :</label>
      <input type='text' name='roll'><br><br>
      <input type='submit' value='Submit'>
    </form>
  </body>
</html>
```

➤ **Servlet1.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.http.Cookie;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class servlet1 extends HttpServlet {
    public void doPost(HttpServletRequest req,HttpServletResponse resp){
        try{
            resp.setContentType("text/html");
            PrintWriter out = resp.getWriter();
            String n = req.getParameter("name");
            String r = req.getParameter("roll");
            out.print("Hello "+n);
            Cookie ck = new Cookie("uname",n);
            resp.addCookie(ck);
```

```

        out.print("<form action = 'servlet2' method = 'POST'><input type='submit' value =
'go to next page'></form>");
    } catch (Exception e) {
        e.getMessage();
    }
}
}
}

```

➤ **Servlet2.java:**

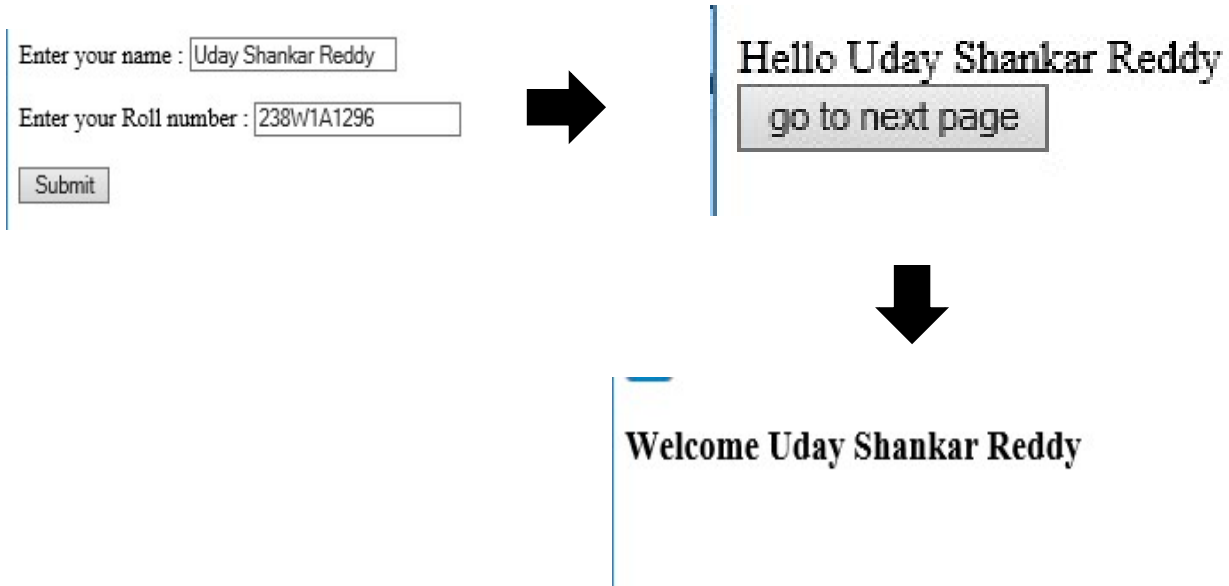
```

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class servlet2 extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head><title>Servlet2</title></head>");
            out.println("<body>");
            Cookie[] cookies = request.getCookies();
            if (cookies != null && cookies.length > 0) {
                String username = null;
                for (Cookie cookie : cookies) {
                    if ("uname".equals(cookie.getName())) {
                        username = cookie.getValue();
                        break;
                    }
                }
                if (username != null) {
                    out.println("<h2>Welcome " + username + "</h2>");
                } else {
                    out.println("<h2>Cookie 'uname' not found!</h2>");
                }
            } else {
                out.println("<h2>No cookies found!</h2>");
            }
            out.println("</body>");
        }
    }
}

```

```
        out.println("</html>");  
    } catch (Exception e) {  
        e.printStackTrace();  
    } } }
```

OUTPUT:



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Week-7: Cookies & Sessions.

Roll Number: 238W1A1296

1.AIM: To create a web app to demonstrate Sessions.

Source code:

➤ **Index.html:**

```
<!DOCTYPE html>
<html>
<head>
  <title>Session Example</title>
</head>
<body>
  <h2>Session Demonstration</h2>
  <form action="Servlet1" method="post">
    <label>Enter your name :</label>
    <input type='text' name='name' required><br><br>
    <label>Enter your Roll number :</label>
    <input type='text' name='roll' required><br><br>
    <input type='submit' value='Submit'>
  </form>
</body>
</html>
```

➤ **Servlet1.java:**

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class Servlet1 extends HttpServlet {
  protected void doPost(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException {
    resp.setContentType("text/html");
    PrintWriter out = resp.getWriter();
    try {
      String name = req.getParameter("name");
      String roll = req.getParameter("roll");
      HttpSession session = req.getSession();
      session.setAttribute("username", name);
```

```

        session.setAttribute("rollnumber", roll);
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head><title>Session Demo - Page 1</title></head>");
        out.println("<body>");
        out.println("<h2>Hello " + name + "</h2>");
        out.println("<p>Your data has been stored in session!</p>");
        out.println("<p>Session ID: " + session.getId() + "</p>");
        out.println("<form action='servlet2' method='POST'>");
        out.println("<input type='submit' value='Go to next page'>");
        out.println("</form>");
        out.println("</body>");
        out.println("</html>");
    } catch (Exception e) {
        out.println("<p>Error: " + e.getMessage() + "</p>");
        e.printStackTrace();
    }
}

```

➤ **Servlet2.java:**

```

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class servlet2 extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head><title>Session Demo - Page 2</title></head>");
            out.println("<body>");
            HttpSession session = request.getSession(false);
            if (session != null) {
                String username = (String) session.getAttribute("username");
                String rollnumber = (String) session.getAttribute("rollnumber");
                if (username != null) {
                    out.println("<h2>Welcome " + username + "!</h2>");
                    out.println("<p>Roll Number: " + rollnumber + "</p>");
                }
            }
        }
    }
}

```

```

        out.println("<p>Session ID: " + session.getId() + "</p>");
        out.println("</form>");
    } else {
        out.println("<h2>No user data found in session!</h2>");
    }
} else {
    out.println("<h2>No session found! Please login first.</h2>");
    out.println("<a href='index.html'>Go to Login</a>");
}
out.println("</body>");
out.println("</html>");
} catch (Exception e) {
    out.println("<p>Error: " + e.getMessage() + "</p>");
    e.printStackTrace();
} } }

```

OUTPUT:

Session Demonstration

Enter your name :

Enter your Roll number :



Hello Uday Shankar Reddy

Your data has been stored in session!

Session ID: 858977b73173858fea6a112b5404



Welcome Uday Shankar Reddy!

Roll Number: 238W1A1296

Session ID: 858977b73173858fea6a112b5404