Web tech lab - 5

- Aditya Madwal
- 2200290120011

1. Creating a Cookie with User IDs and Passwords

CreateCookieServlet.java:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class CreateCookieServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        // Create a cookie with user IDs and passwords
        Cookie userCookie = new
Cookie("userCredentials", "user1:pwd1,user2:pwd2,user3:pwd3,user4:pwd4");
        userCookie.setMaxAge(60 * 60 * 24); // Set cookie to expire in 1
        day response.addCookie(userCookie);
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        out.println("<h2>Cookie Created Successfully</h2>");
        out.println("</body></html>");
    }
}
```

2. Authenticating User IDs and Passwords from Login Form

LoginServlet.java:

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

public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException {
        // Get user ID and password from request
```

```
String userID = request.getParameter("userID");
String password =
request.getParameter("password");
```

```
// Get cookies from the request
        Cookie[] cookies =
        request.getCookies(); String
        userCredentials = null:
        // Find the cookie with user credentials
        if (cookies != null) {
            for (Cookie cóokie : cookies) {
                if (cookie.getName().equals("userCredentials")) {
                    userCredentials = cookie.getValue();
                    break;
            }
        // Authenticate user
        boolean authenticated = false;
        if (userCredentials != null) {
            String[] users = userCredentials.split(",");
            for (String user: users) {
                String[] credentials = user.split(":"); if
                (credentials[0].equals(userID) &&
credentials[1].equals(password)) {
                    authenticated = true;
                    break;
                }
        // Generate response
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        if (authenticated) {
            out.println("<h2>Login Successful</h2>");
            out.println("<h2>Login Failed</h2>");
        out.println("</body></html>");
    }
}
```

3. Creating a Simple Login Form

login.html:

```
<!DOCTYPE html> <html>
```

```
Password: <input type="password" name="password"><br> <input type="submit" value="Login"> </form> </body> </html> Explanation
```

1. CreateCookieServlet.java:

- Creates a cookie named userCredentials with the values user1:pwd1,user2:pwd2,user3:pwd3,user4:pwd4.
- Adds the cookie to the response with a lifespan of one day.

2. LoginServlet.java:

- Retrieves the user ID and password entered in the login form.
- Reads the cookies from the request and finds the userCredentialscookie.
- Splits the cookie value to extract user credentials and checks if the provided user ID and password match any stored credentials.
- Returns a success or failure message based on the authentication result.

3. login.html:

 A simple HTML form that posts the user ID and password to LoginServletfor authentication.

Make sure to map these servlets to appropriate URLs in your web.xml:

web.xml: