

## **PROGRAM:**

### **index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Servlet Login Example</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>Welcome to Login App by Cookie</h1>
    <nav>
        <a href="login.html">Login</a> | 
        <a href="LogoutServlet">Logout</a> | 
        <a href="ProfileServlet">Profile</a>
    </nav>
</body>
</html>
```

### **link.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Navigation Links</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <nav>
        <a href="login.html">Login</a> | 
        <a href="LogoutServlet">Logout</a> | 
        <a href="ProfileServlet">Profile</a>
    </nav>
    <hr>
</body>
</html>
```

### **login.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
```

```
<link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>Login</h1>
    <form action="LoginServlet" method="post">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required><br><br>

        <input type="submit" value="Login">
    </form>
</body>
</html>
```

### styles.css

```
body {
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    margin: 0;
    padding: 0;
    background: linear-gradient(to right, #74ebd5, #ACB6E5);
    color: #333;
    line-height: 1.6;
}

h1 {
    color: #2c3e50;
    text-align: center;
    margin: 20px 0;
}

nav {
    background-color: rgba(44, 62, 80, 0.8);
    color: white;
    padding: 15px;
    border-radius: 5px;
    text-align: center;
    margin-bottom: 20px;
}

nav a {
    color: #ecf0f1;
    text-decoration: none;
    margin: 0 15px;
    transition: color 0.3s;
}

nav a:hover {
    color: #ffd700;
}
```

```
form {  
    background-color: white;  
    padding: 30px;  
    border-radius: 10px;  
    box-shadow: 0 2px 15px rgba(0, 0, 0, 0.2);  
    max-width: 400px;  
    margin: 20px auto;  
}  
label {  
    display: block;  
    margin-bottom: 5px;  
    font-weight: bold;  
    color: #34495e;  
}  
input[type="text"],  
input[type="password"],  
input[type="submit"] {  
    width: 100%;  
    padding: 10px;  
    margin: 8px 0 20px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    transition: border 0.3s;  
}  
input[type="text"]:focus,  
input[type="password"]:focus {  
    border-color: #007BFF;  
    outline: none;  
}  
input[type="submit"] {  
    background-color: #007BFF;  
    color: white;  
    border: none;  
    cursor: pointer;  
    font-size: 16px;  
    transition: background-color 0.3s;  
}  
input[type="submit"]:hover {  
    background-color: #0056b3;  
}  
footer {  
    text-align: center;  
    margin-top: 20px;  
    font-size: 14px;  
    color: #7f8c8d;  
}
```

### LoginServlet.java

```
package com.example.servlets;
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;
@SuppressWarnings("serial")
public class LoginServlet extends HttpServlet {
    private static final String VALID_PASSWORD = "asdfghjkl;";
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        request.getRequestDispatcher("link.html").include(request, response);
        String name = request.getParameter("name");
        String password = request.getParameter("password");
        if (VALID_PASSWORD.equals(password)) {
            out.print("You are successfully logged in!");
            out.print("<br>Welcome, " + name);
            Cookie ck = new Cookie("name", name);
            response.addCookie(ck);
        } else {
            out.print("Sorry, username or password error!");
            request.getRequestDispatcher("login.html").include(request, response);
        }
        out.close();
    }
}
```

### LogoutServlet.java

```
package com.example.servlets;
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;
@SuppressWarnings("serial")
public class LogoutServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
```

```

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        request.getRequestDispatcher("link.html").include(request, response);
        // Create a cookie to delete the user's session
        Cookie ck = new Cookie("name", "");
        ck.setMaxAge(0); // Set cookie to expire immediately
        response.addCookie(ck);
        out.print("You have successfully logged out!");
        out.close();
    }
}

```

### ProfileServlet.java

```

package com.example.servlets;
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;
@SuppressWarnings("serial")
public class ProfileServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        request.getRequestDispatcher("link.html").include(request, response);
        Cookie[] cookies = request.getCookies();
        if (cookies != null) {
            String name = null;
            for (Cookie cookie : cookies) {
                if (cookie.getName().equals("name")) {
                    name = cookie.getValue();
                    break;
                }
            }
            if (name != null && !name.isEmpty()) {
                out.print("<b>Welcome to Profile</b>");
                out.print("<br>Welcome, " + name);
            } else {
                out.print("Please login first.");
                request.getRequestDispatcher("login.html").include(request, response);
            }
        } else {
            out.print("Please login first.");
        }
    }
}

```

```
    request.getRequestDispatcher("login.html").include(request, response);
}
out.close();
}
}
```

