# Servlet Login and Logout Example using Cookies

A **cookie** is a kind of information that is stored at client side.

In the previous page, we learned a lot about cookie e.g. how to create cookie, how to delete cookie, how to get cookie etc.

Here, we are going to create a login and logout example using servlet cookies.

In this example, we are creating 3 links: login, logout and profile. User can't go to profile page until he/she is logged in. If user is logged out, he need to login again to visit profile.

In this application, we have created following files.

1. index.html
2. link.html
3. login.html
4. LoginServlet.java
5. LogoutServlet.java
6. ProfileServlet.java
7. web.xml

*File: index.html*

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Servlet Login Example</title>
```

```
</head>

<body>


<h1>Welcome to Login App by Cookie</h1>

<a href="login.html">Login</a>|

<a href="LogoutServlet">Logout</a>|

<a href="ProfileServlet">Profile</a>


</body>

</html>
```

*File: link.html*

```
<a href="login.html">Login</a> |

<a href="LogoutServlet">Logout</a> |

<a href="ProfileServlet">Profile</a>

<hr>
```

*File: login.html*

```
<form action="LoginServlet" method="post">

Name:<input type="text" name="name"><br>

Password:<input type="password" name="password"><br>

<input type="submit" value="login">

</form>
```

*File: LoginServlet.java*

```
package com.javatpoint;


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 LoginServlet extends HttpServlet {

    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(password.equals("admin123")){
            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();
    }


}
```

*File: LogoutServlet.java*

```
package com.javatpoint;


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 LogoutServlet extends HttpServlet {
```

```java
    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 ck=new Cookie("name","");

    ck.setMaxAge(0);

    response.addCookie(ck);


    out.print("you are successfully logged out!");
    }
}
```

*File: ProfileServlet.java*

```java
package com.javatpoint;


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 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 ck[]=request.getCookies();

    if(ck!=null){
```

```java
    String name=ck[0].getValue();

    if(!name.equals("")||name!=null){

        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);

    }

    out.close();

    }

}
```

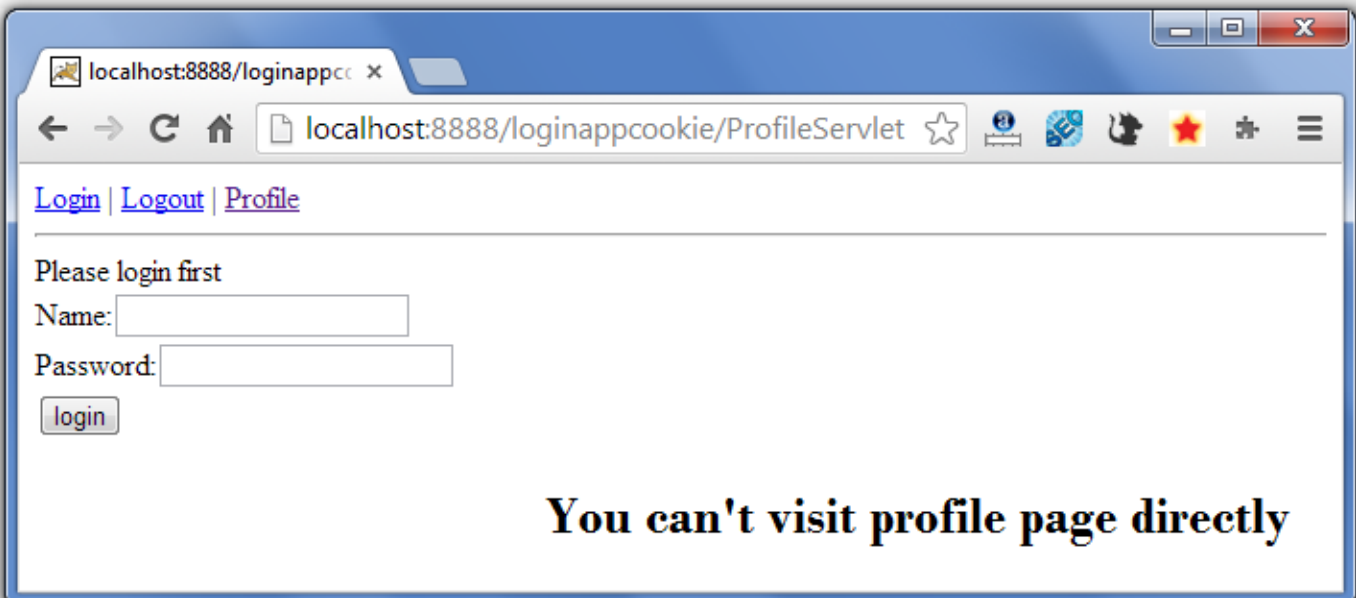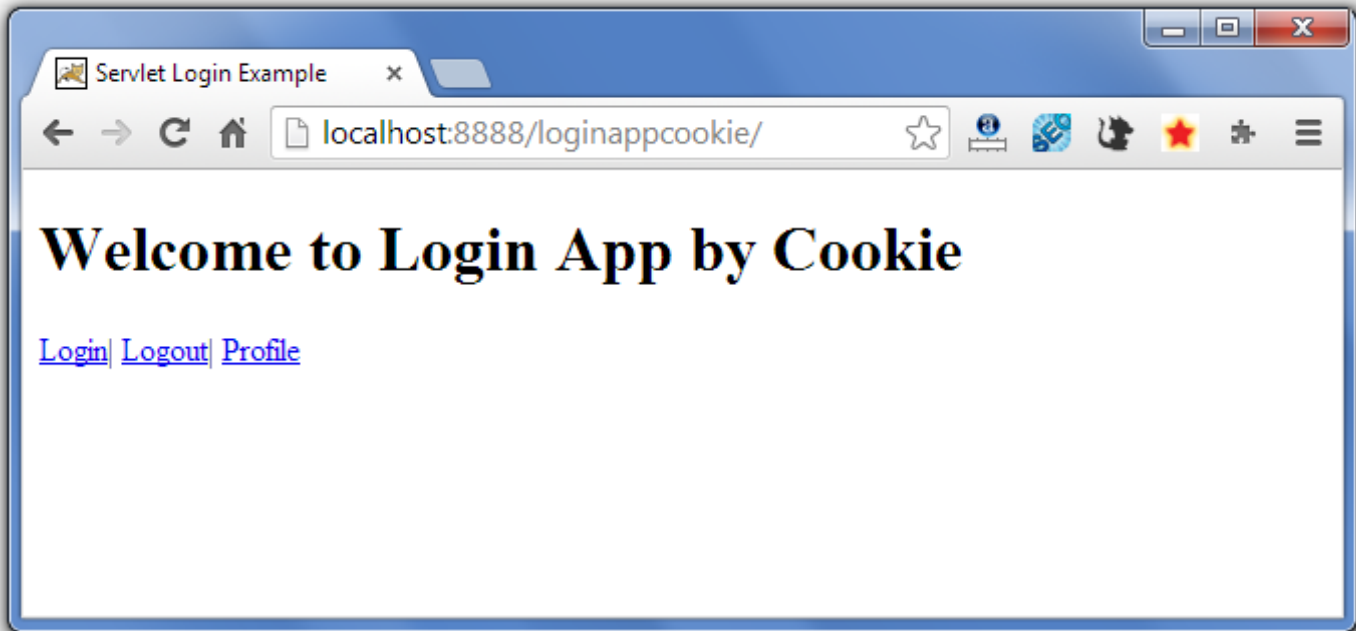*File: web.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns="http://java.sun.com/xml/ns/javaee" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee

http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID" version="2.5">


  <servlet>
    <description></description>
    <display-name>LoginServlet</display-name>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>com.javatpoint.LoginServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/LoginServlet</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>ProfileServlet</display-name>
    <servlet-name>ProfileServlet</servlet-name>
    <servlet-class>com.javatpoint.ProfileServlet</servlet-class>
  </servlet>
  <servlet-mapping>
```
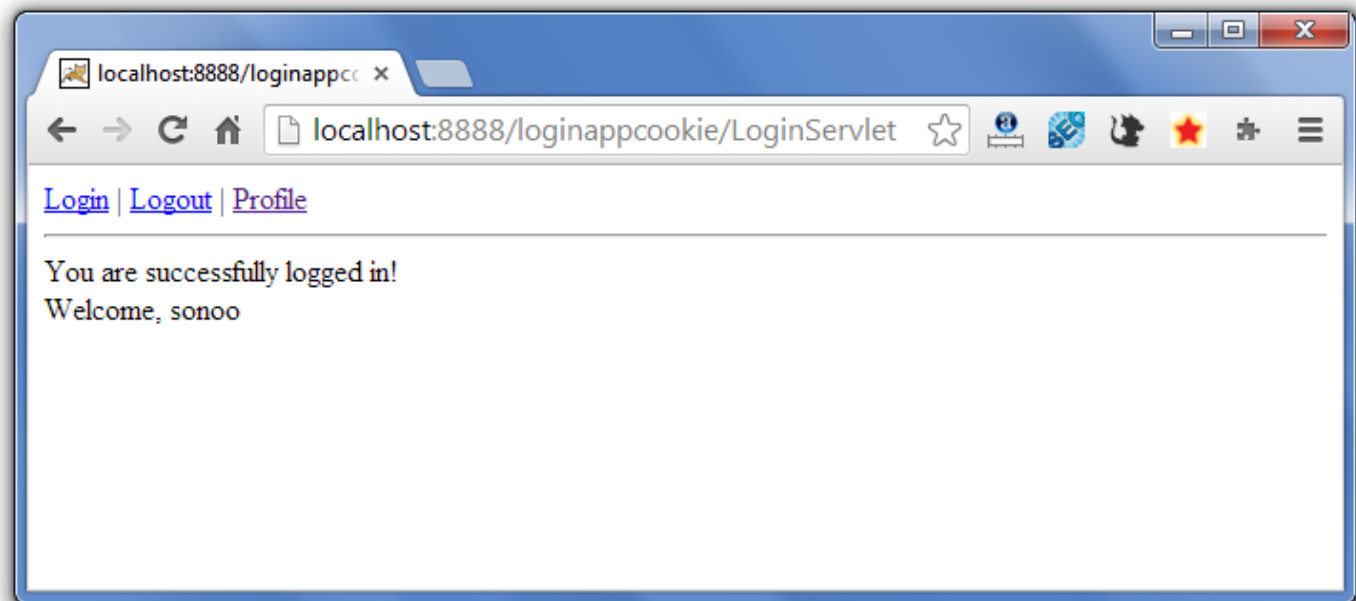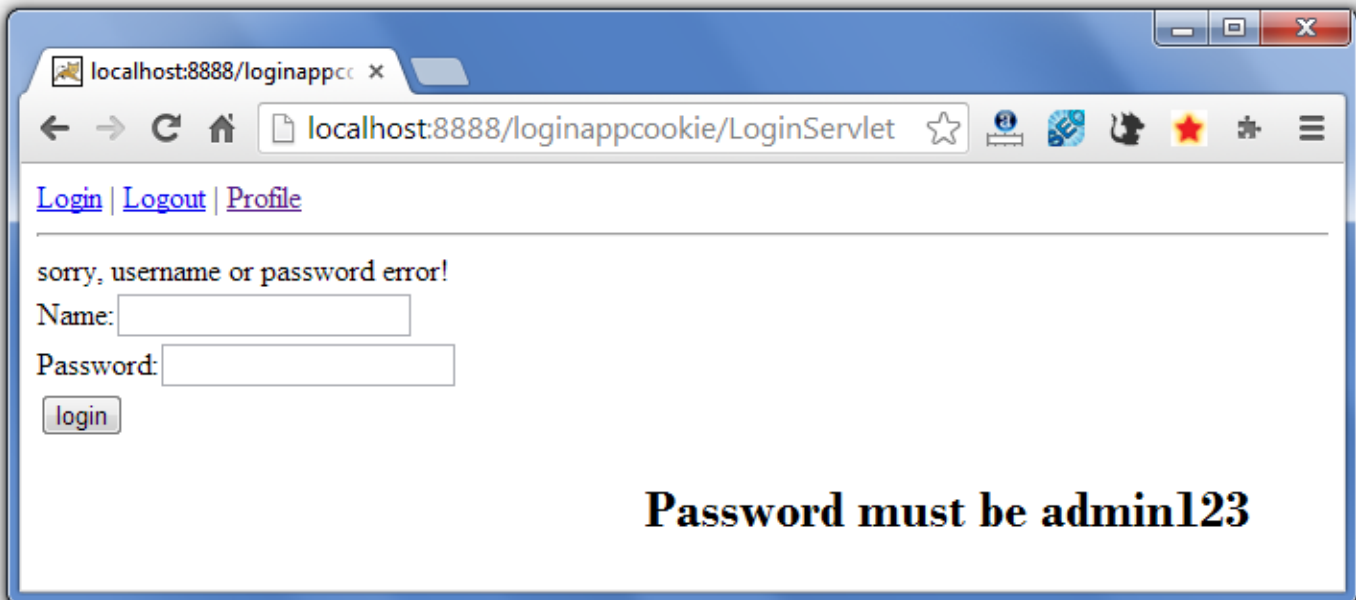
```
    <servlet-name>ProfileServlet</servlet-name>

    <url-pattern>/ProfileServlet</url-pattern>

  </servlet-mapping>

  <servlet>

   <description></description>

   <display-name>LogoutServlet</display-name>

   <servlet-name>LogoutServlet</servlet-name>

   <servlet-class>com.javatpoint.LogoutServlet</servlet-class>

  </servlet>

  <servlet-mapping>

   <servlet-name>LogoutServlet</servlet-name>

   <url-pattern>/LogoutServlet</url-pattern>

  </servlet-mapping>

 </web-app>
```
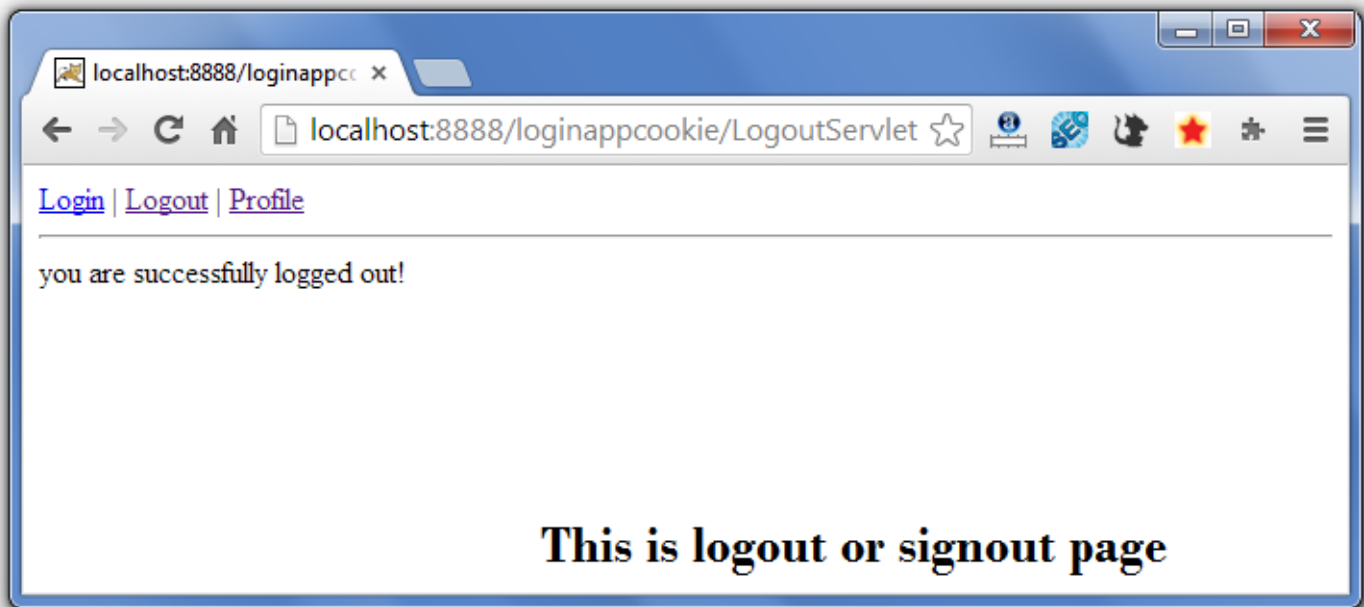
download this example (developed using Eclipse IDE)

Output

# Welcome to Login App by Cookie

Login| Logout| Profile

---

Login | Logout | Profile

---

Please login first
Name:
Password:
login

## You can't visit profile page directly

Login | Logout | Profile

sorry, username or password error!

Name: [                    ]

Password: [                    ]

[ login ]

**Password must be admin123**

---

Login | Logout | Profile

You are successfully logged in!
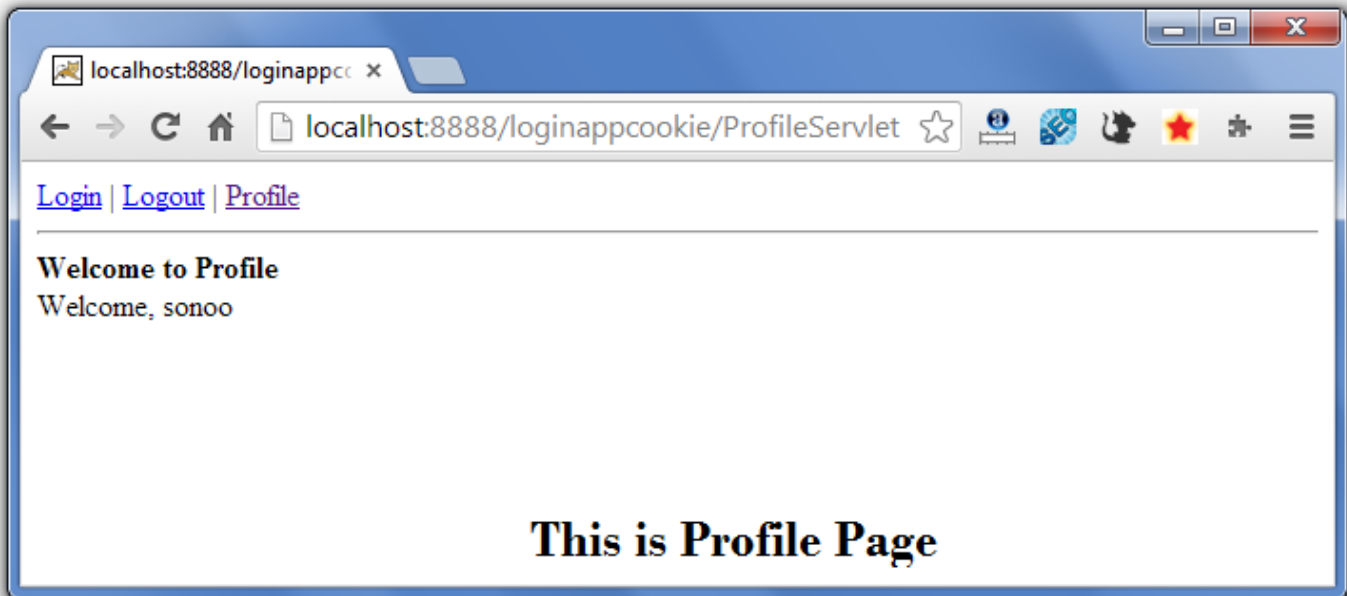Welcome, sonoo

If again you click on the profile link, you need to login first.

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