Servlet HttpSession Login and Logout Example

We can bind the objects on HttpSession instance and get the objects by using setAttribute and getAttribute methods.

In the previous page, we have learnt about what is HttpSession, How to store and get data from session object etc.

Here, we are going to create a real world login and logout application without using database code. We are assuming that password is admin123.

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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

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


<h1>Login App using HttpSession</h1>
<a href="login.html">Login</a>|
```

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

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


</body>

</html>
```

File: link.html

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

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

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

<hr>
```

File: login.html

```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

```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 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("Welcome, "+name);
        HttpSession session=request.getSession();
        session.setAttribute("name",name);
        }
        else{
            out.print("Sorry, username or password error!");
            request.getRequestDispatcher("login.html").include(request, response);
        }
        out.close();
    }
}
```

File: LogoutServlet.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 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);


        HttpSession session=request.getSession();
        session.invalidate();


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

```
            out.close();
      }
  }
```

File: *ProfileServlet.java*

```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 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);


      HttpSession session=request.getSession(false);

      if(session!=null){

      String name=(String)session.getAttribute("name");


      out.print("Hello, "+name+" Welcome to Profile");

      }

      else{

         out.print("Please login first");

         request.getRequestDispatcher("login.html").include(request, response);

      }

      out.close();

   }
}
```
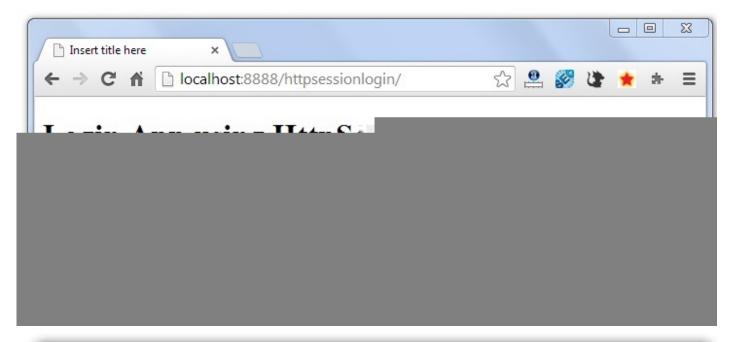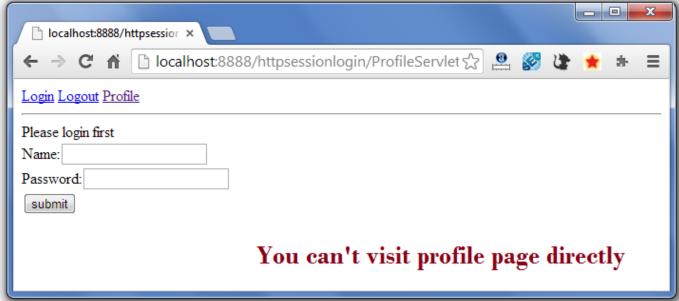
File: *web.xml*

```xml
<?xml version="1.0" encoding="UTF-8"?>
```

```xml
<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>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>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>LogoutServlet</servlet-class>
  </servlet>
  <servlet-mapping>
   <servlet-name>LogoutServlet</servlet-name>
   <url-pattern>/LogoutServlet</url-pattern>
  </servlet-mapping>
</web-app>
```
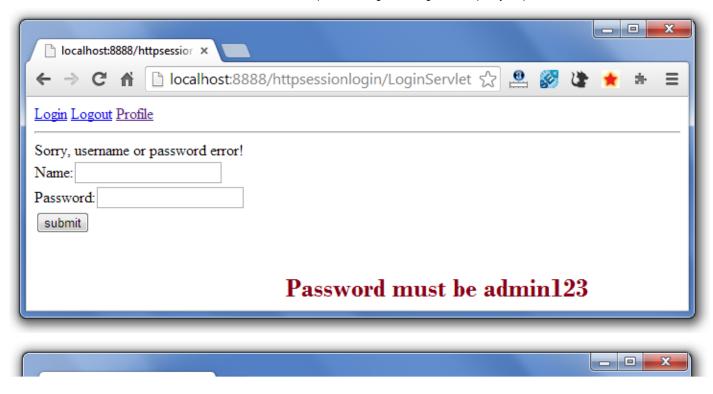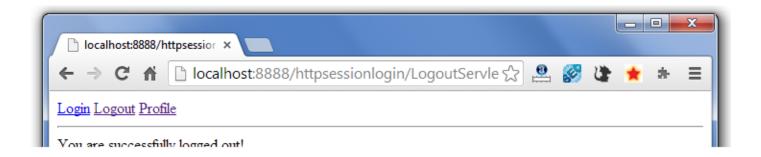
download this example (developed using Eclipse IDE)

Output

Login Logout Profile

Sorry, username or password error!

Name: [   ]

Password: [   ]

[submit]

Password must be admin123

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

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