

Servlet Basic Authentication

➤ Basic Authentication Example Steps

1. Create Login.html
2. Create FirstServlet class
3. Configure FirstServlet in web.xml
4. Add security related tags to web.xml
5. Add role,username & password in tomcat-users.xml
6. Deploy & Run the application

1. Create Login.html(for Accessing FirstServlet)

```
10 <html>
11 <head>
12 <title>LOGIN PAGE</title>
13 </head>
14 <body>
15     <form action="/WebSecurity/FirstServlet" method="post">
16
17         Enter Text:<input type="text" name="text">
18             <input type="submit">
19     </form>
20 </body>
21 </html>
```

2. Create FirstServlet class

```
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;

public class FirstServlet extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter out = response.getWriter();

        out.println("<h1>GET:After authentication only we can access the Servlet.</h1>");
    }

    public void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter out = response.getWriter();

        out.println("<h1>POST:After authentication only we can access the Servlet.</h1>");
    }
}
```

3. Configure FirstServlet in web.xml

```
10 <servlet>
11     <description></description>
12     <display-name>FirstServlet</display-name>
13     <servlet-name>FirstServlet</servlet-name>
14     <servlet-class>com.java2learn.servlet.FirstServlet</servlet-class>
15 </servlet>
16 <servlet-mapping>
17     <servlet-name>FirstServlet</servlet-name>
18     <url-pattern>/FirstServlet</url-pattern>
19 </servlet-mapping>
```

4. Add security related tags to web.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"
  xmlns:web="http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"
  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">
  <display-name>WebSecurity</display-name>

  <servlet>
    <description></description>
    <display-name>FirstServlet</display-name>
    <servlet-name>FirstServlet</servlet-name>
    <servlet-class>com.java2learn.servlet.FirstServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>FirstServlet</servlet-name>
    <url-pattern>/FirstServlet</url-pattern>
  </servlet-mapping>

  <security-constraint>
    <web-resource-collection>
      <web-resource-name>FirstServlet</web-resource-name>
      <description></description>
      <url-pattern>/FirstServlet</url-pattern>
      <http-method>POST</http-method>
      <http-method>GET</http-method>
    </web-resource-collection>
```

```

    <auth-constraint>
      <role-name>javaRole</role-name>
    </auth-constraint>
  </security-constraint>

  <login-config>
    <auth-method>BASIC</auth-method>
  </login-config>

  <security-role>
    <role-name>javaRole</role-name>
  </security-role>

</web-app>

```

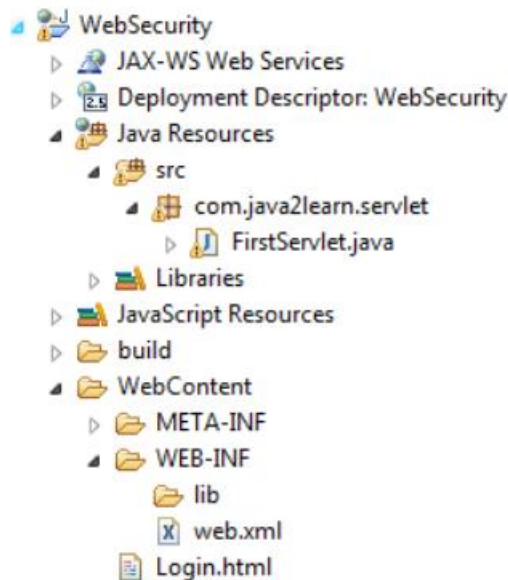
5. Add role,username & password in tomcat-users.xml

```

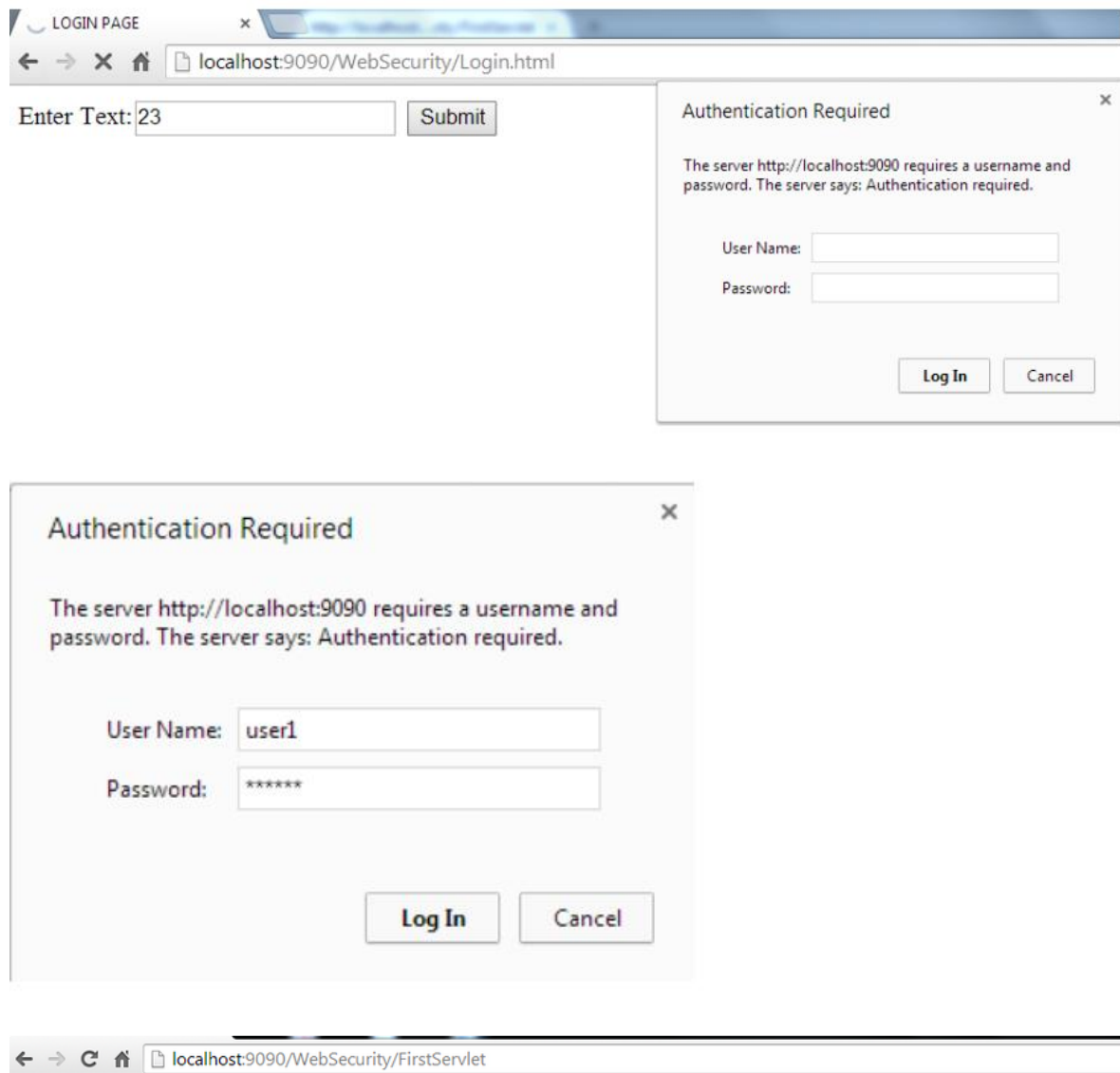
10 <tomcat-users>
11   <role rolename="javarole"/>
12   <user username="user1" password="tomcat" roles="javarole"/>
13   <user username="user2" password="tomcat" roles="javarole,role1"/>
14 </tomcat-users>

```

➤ Final Project Structure



6. Deploy & Run the application



POST:After authentication only we can access the Servlet.