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Spring Security 4 Secure View Fragments using taglibs

July 28, 2015 websystiqueadmin

This tutorial shows you how to secure view layer, show/hide parts of jsp/view based on logged-in user's roles, using Spring Security tags in Spring MVC web application.

First of all, in order to use Spring Security tags, we need to include **spring-security-taglibs** dependency in pom.xml as shown below:

```
<dependency>
    <groupId>org.springframework.security</groupId>
    <artifactId>spring-security-taglibs</artifactId>
    <version>4.0.1.RELEASE</version>
</dependency>
```

Then the next step would be to include taglib in your views/JSP's.

```
<%@ taglib prefix="sec" uri="http://www.springframework.org/securit
```

Finally, we can use Spring Security expresssions like hasRole, hasAnyRole, etc.. in Views as shown below:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1
```

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```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@ taglib prefix="sec" uri="http://www.springframework.org/securit
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=ISC
    <title>Welcome page</title>
</head>
<body>
    Dear <strong>${user}</strong>, Welcome to Home Page.
    <a href="<c:url value="/logout" />">Logout</a>

    <br/>
    <br/>
    <div>
        <label>View all information| This part is visible to Everyc
    </div>

    <br/>
    <div>
        <sec:authorize access="hasRole('ADMIN')">
            <label><a href="#">Edit this page</a> | This part is vi
        </sec:authorize>
    </div>

    <br/>
    <div>
        <sec:authorize access="hasRole('ADMIN') and hasRole('DBA')"
            <label><a href="#">Start backup</a> | This part is visi
        </sec:authorize>
    </div>
</html>
```

replace option guide

That's all you need to conditionally show/hide view fragments based on roles, using Spring Security expressions in your Views.

Below is the Security Configuration used for this example:

```
package com.websystique.springsecurity.configuration;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.authenticatic
import org.springframework.security.config.annotation.web.builders.
import org.springframework.security.config.annotation.web.configura
import org.springframework.security.config.annotation.web.configura

@Configuration
@EnableWebSecurity
public class SecurityConfiguration extends WebSecurityConfigurerAda


    @Autowired
    public void configureGlobalSecurity(AuthenticationManagerBuilde
        auth.inMemoryAuthentication().withUser("bill").password("ab
        auth.inMemoryAuthentication().withUser("admin").password("r
        auth.inMemoryAuthentication().withUser("dba").password("roc
    }

    @Override
    protected void configure(HttpSecurity http) throws Exception {

      http.authorizeRequests()
        .antMatchers("/", "/home").access("hasRole('USER') or hasRc
        .and().formLogin().loginPage("/login")
        .usernameParameter("ssoId").passwordParameter("password")
        .and().exceptionHandling().accessDeniedPage("/Access_Deniec
    }
}
```

Above security configuration in XML configuration format would be:

```
<beans:beans xmlns="http://www.springframework.org/schema/security"
    xmlns:beans="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/security http://www.sprir

    <http auto-config="true" >
        <intercept-url pattern="/"     access="hasRole('USER') or h
        <intercept-url pattern="/home" access="hasRole('USER') or h
        <form-login  login-page="/login"
                     username-parameter="ssoId"
                     password-parameter="password"
                     authentication-failure-url="/Access_Denied" />
    </http>

    <authentication-manager >
        <authentication-provider>
            <user-service>
                <user name="bill"  password="abc123"  authorities="
                <user name="admin" password="root123" authorities="
                <user name="dba"   password="root123" authorities="
            </user-service>
        </authentication-provider>
    </authentication-manager>


</beans:beans>
```

And the controller:

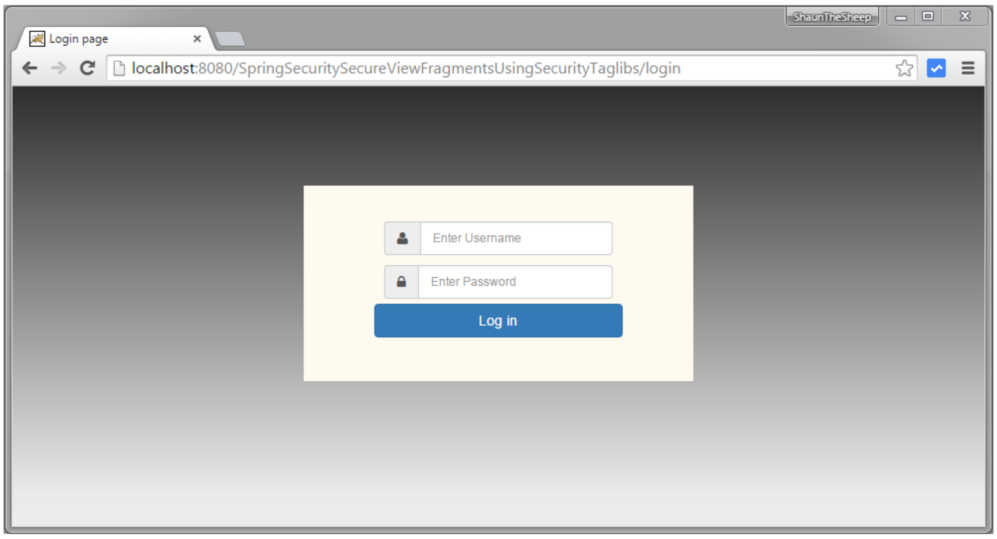
```
package com.websystique.springsecurity.controller;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.springframework.security.core.Authentication;
import org.springframework.security.core.context.SecurityContextHol
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.web.authentication.logout.Secur
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;

@Controller
public class HelloWorldController {


    @RequestMapping(value = { "/", "/home" }, method = RequestMethc
    public String homePage(ModelMap model) {
        model.addAttribute("user", getPrincipal());
        return "welcome";
    }

    @RequestMapping(value = "/Access_Denied", method = RequestMethc
    public String accessDeniedPage(ModelMap model) {
        model.addAttribute("user", getPrincipal());
        return "accessDenied";
    }
    @RequestMapping(value = "/login", method = RequestMethod.GET)
    public String loginPage() {
        return "login";
    }

    @RequestMapping(value="/logout", method = RequestMethod.GET)
    public String logoutPage (HttpServletRequest request, HttpServl
        Authentication auth = SecurityContextHolder.getContext().ge
        if (auth != null){
            new SecurityContextLogoutHandler().logout(request, resp
        }
        return "redirect:/login?logout";
    }

    private String getPrincipal(){
        String userName = null;
        Object principal = SecurityContextHolder.getContext().getAu

        if (principal instanceof UserDetails) {
            userName = ((UserDetails)principal).getUsername();
        } else {
            userName = principal.toString();
        }
        return userName;
    }

}
```

Rest of application code is same as other posts in this series.

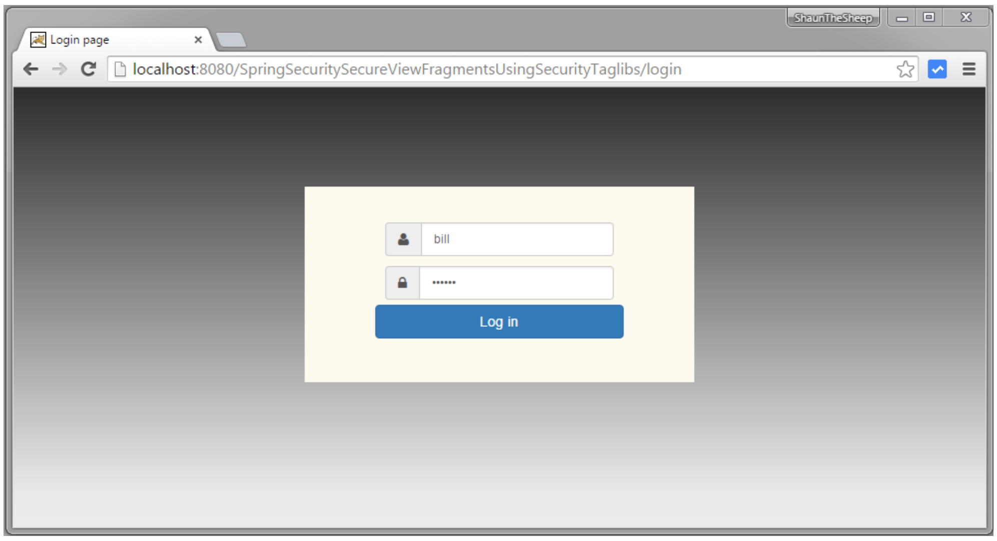
Deploy & Run

Download complete code of this project using download button shown at the bottom of this post. Build and deploy it on Servlet 3.0 container(Tomcat7/8).

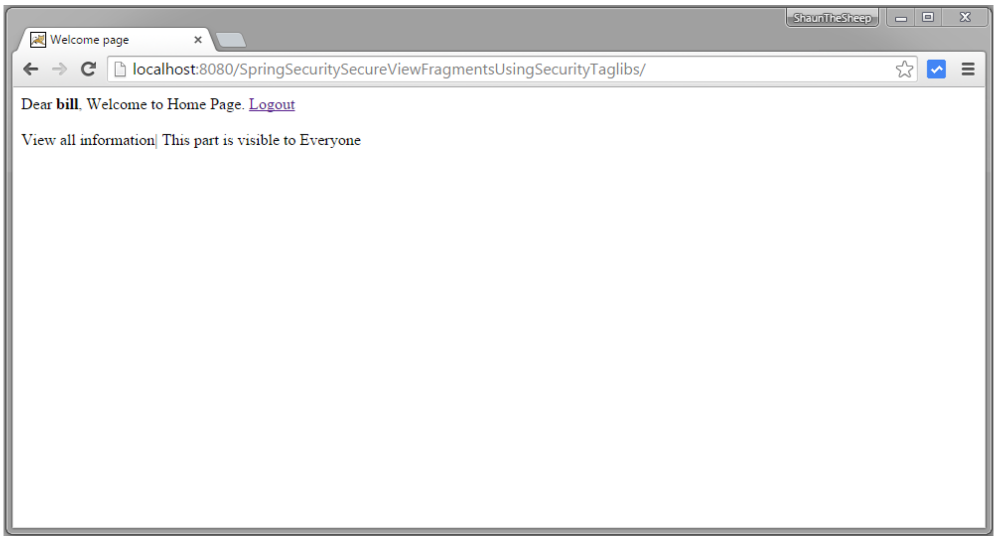
Open browser and access homepage at **localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/**, you will be prompted for login.


Login page
localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/login
ShaunTheSheep
Enter Username
Enter Password
Log in

Provide USER credentials.


Login page
localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/login
bill
••••••
Log in

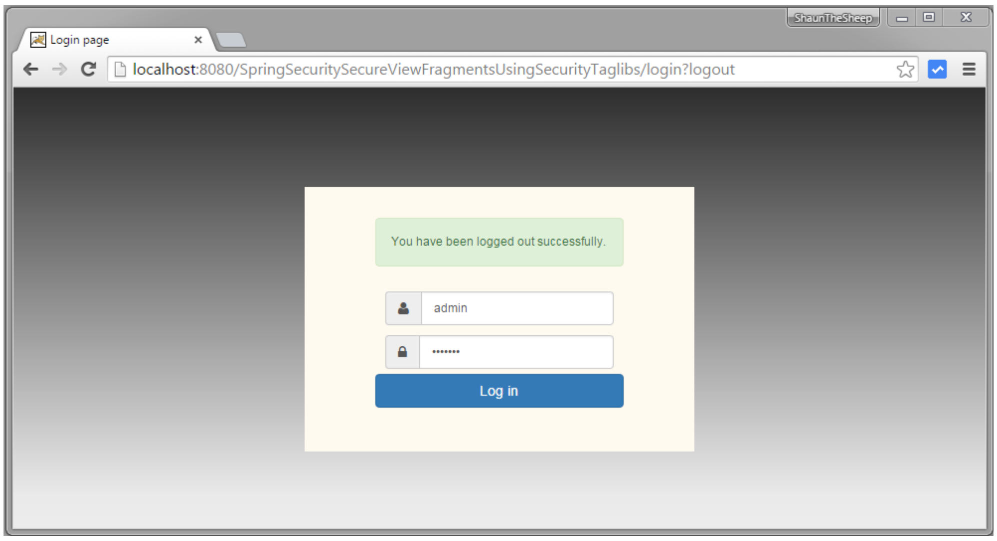
You can see that limited information is shown on page.


Welcome page
localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/

Dear **bill**, Welcome to Home Page. Logout

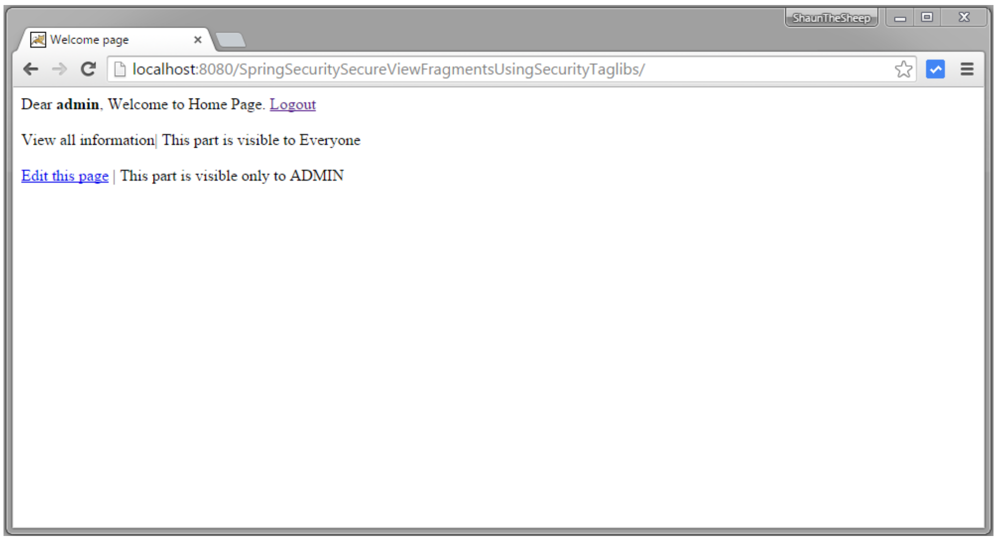
View all information| This part is visible to Everyone

Now click on logout and login with ADMIN role


Login page
localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/login?logout
admin
•••••••
Log in

You have been logged out successfully.

Submit, you will see that operation related to ADMIN role is accessible.



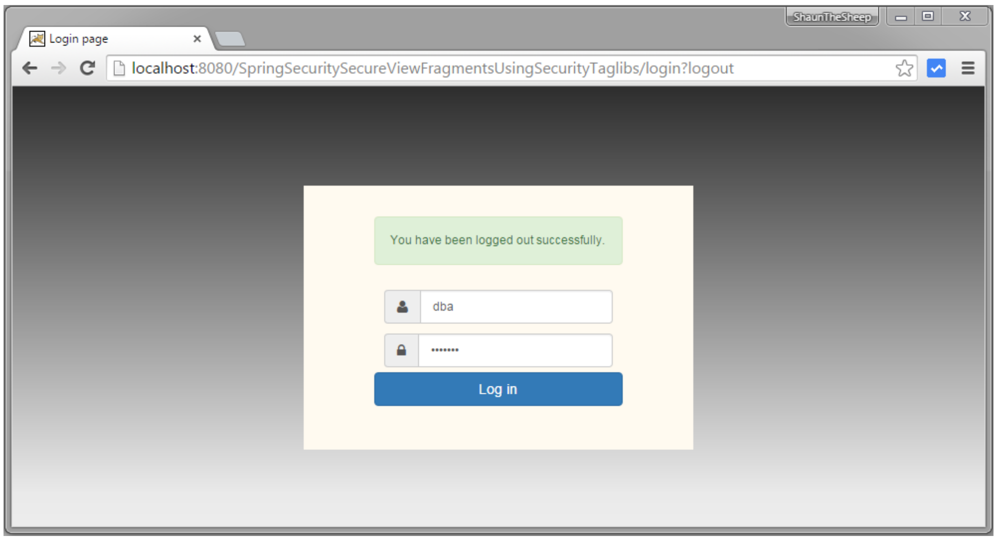
localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/

Dear **admin**, Welcome to Home Page. Logout

View all information| This part is visible to Everyone

Edit this page | This part is visible only to ADMIN

Now logout, and login with DBA role.



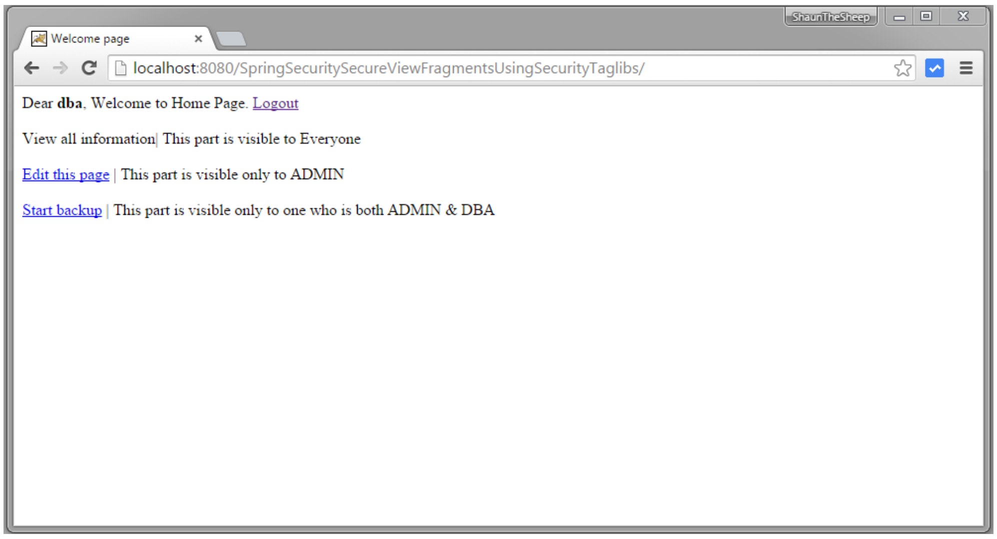
localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/login?logout

You have been logged out successfully.

dba

•••••••

Submit, you will see that operation related to DBA role is accessible.



localhost:8080/SpringSecuritySecureViewFragmentsUsingSecurityTaglibs/

Dear **dba**, Welcome to Home Page. Logout

View all information| This part is visible to Everyone

Edit this page | This part is visible only to ADMIN

Start backup | This part is visible only to one who is both ADMIN & DBA

That's it. Next post shows you how to use role based login. That means redirecting users to different URLs upon login according to their assigned roles.

Download Source Code

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References

- Spring Security Expressions
- Spring Security 4 Project Page
- Spring Security 4 Reference Manual

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