

User login management using SessionRegistry of Spring security in Dhis2 (v2.20)

More further information about spring security config:

[http://docs.spring.io/spring-](http://docs.spring.io/spring-security/site/docs/3.1.6.RELEASE/reference/ns-config.html)

[security/site/docs/3.1.6.RELEASE/reference/ns-config.html](http://docs.spring.io/spring-security/site/docs/3.1.6.RELEASE/reference/ns-config.html)

Create class: /dhis-2/dhis-web/dhis-web-

commons/src/main/java/org/hisp/dhis/security/action/**SessionRegistryImpl.java**

```
package org.hisp.dhis.security.action;

import com.opensymphony.xwork2.Action;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.session.SessionInformation;
import org.springframework.security.core.session.SessionRegistry;
import org.springframework.security.core.userdetails.User;

import java.util.ArrayList;
import java.util.List;

/**
 * Created by nhancao on 3/8/16.
 */
public class SessionRegistryImpl implements Action
{
    private String sessionId = null;
    private String res;

    public String getRes()
    {
        return res;
    }

    public void setRes( String res )
    {

```

```
        this.res = res;
    }

    public String getSessionId()
    {
        return sessionId;
    }

    public void setSessionId( String sessionId )
    {
        this.sessionId = sessionId;
    }

    @Autowired
    private SessionRegistry sessionRegistry;

    public List<SessionInformation> getActiveSessions()
    {
        List<SessionInformation> activeSessions = new
        ArrayList<>();
        for ( Object principal :
        sessionRegistry.getAllPrincipals() )
        {
            activeSessions.addAll(
            sessionRegistry.getAllSessions( principal, false ) );
        }
        return activeSessions;
    }

    public User getUser( SessionInformation session )
    {
        Object principalObj = session.getPrincipal();
        if ( principalObj instanceof User )
        {
            User user = (User) principalObj;
            return user;
        }
        return null;
    }

    public void logoutSession(String sessionId) {
        SessionInformation session =
        sessionRegistry.getSessionInformation(sessionId);
        if (session != null) {
            session.expireNow();
        }
    }

    @Override public String execute() throws Exception
    {
        if(sessionId!=null)
        {
            System.out.println(sessionId);
            logoutSession( sessionId );
        }
    }
}
```

```

        res = "";
        List<SessionInformation> activeSessions =
getActiveSessions();
        for ( SessionInformation item : activeSessions )
        {
            User user = getUser( item );
            if (user!=null){
                res+="Username: " + user.getUsername() + " -
";
            }
            res += "Session ID: " + item.getSessionId() + " -
LastRequest: " + item.getLastRequest() + " - isExpired: " +
item.isExpired() ;
            res += " <button onClick='doFunc(\"" +
item.getSessionId()+"\");' >Expire</button>";
            res += " <br> ";
        }
        return "success";
    }
}

```

Declare an action in /dhis-2/dhis-web/dhis-web-commons/src/main/resources/dhis-web-commons.xml (around line 118)

```

<package name="dhis-web-commons-security" extends="dhis-web-
commons" namespace="/dhis-web-commons/security">

    <action name="getlogin"
class="org.hisp.dhis.security.action.SessionRegistryImpl"
method="execute">
        <result name="success" type="velocity">/dhis-web-
commons/security/getalluser.vm</result>
    </action>
    .....
</package>

```

Declare session management in /dhis-2/dhis-web/dhis-web-commons/src/main/resources/META-INF/dhis/security.xml (around line 90)

```

<bean id="org.hisp.dhis.security.action.SessionRegistryImpl"
class="org.hisp.dhis.security.action.SessionRegistryImpl" />
<sec:http access-decision-manager-ref="accessDecisionManager"

```

```

use-expressions="true" realm="DHIS2">
  <sec:session-management>
    <sec:concurrency-control max-sessions="10" expired-
url="/dhis-web-commons-security/logout.action" session-
registry-alias="sessionRegistry" />
  </sec:session-management>

  .....
  <sec:http-basic />
  <sec:logout logout-url="/dhis-web-commons-
security/logout.action" delete-cookies="JSESSIONID"/>
  .....
</sec:http>

```

Edit web config in /dhis-2/dhis-web/dhis-web-portal/src/main/webapp/WEB-INF/web.xml (around line 120)

```

<!-- Listeners -->
<listener>
  <listener-
class>org.springframework.security.web.session.HttpSessionEven
tPublisher</listener-class>
</listener>

```

Create velocity template file in /dhis-2/dhis-web/dhis-web-commons-resources/src/main/webapp/dhis-web-commons/security/getalluser.vm

```

<html>
<head>
  <title>Hello</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquer
y.min.js"></script>
  <script type="text/javascript" src="getalluser.js"></script>

</head>
<body>

  ${res}

</body>
</html>

```

Create javascript file in /dhis-2/dhis-web/dhis-web-commons-resources/src/main/webapp/dhis-web-commons/security/getalluser.js

```
/**
 * Created by nhancao on 3/8/16.
 */
function doFunc( sessionId ) {
    $.ajax({
        method: "POST",
        url: "getlogin.action",
        data: "sessionId=" + sessionId,
        success: function() {
            window.location.reload();
        },
        error: function( e ) {
            console.log(e);
            window.location.reload();
        }
    });
}
```

Build dhis-web-commons and dhis-web-commons-resources

Command: mvn clean -Dmaven.test.skip=true install

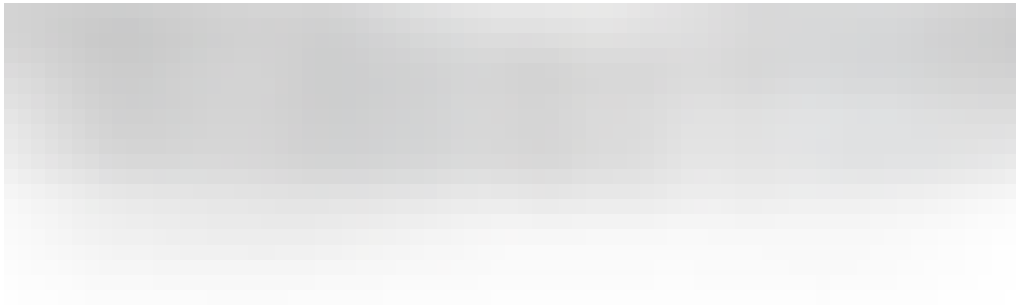
Deploy

Access to /dhis-web-commons/security/getlogin.action

Result:



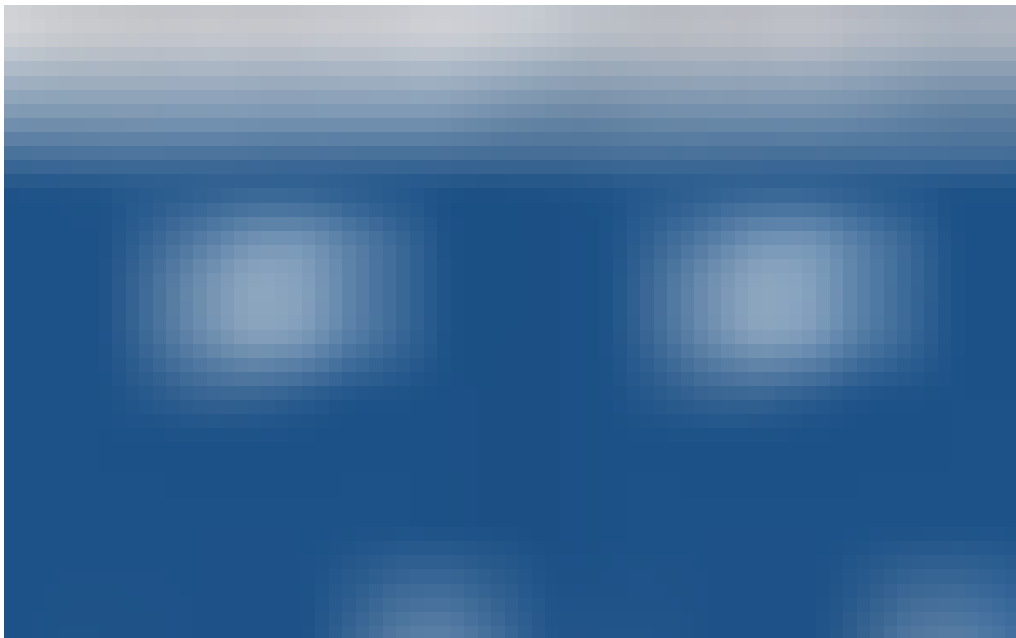
Login with 2 account difference



Get all session



Force expire admin session



Force expire nhancv session

Nhan Cao

