

Implement User login management samples in Dhis2 (test v2.20)

Recommend read this post first, it better solution:

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

userinfo			
username	accesstime	timeout	islogin
admin	1457063460030	1800	true

Model

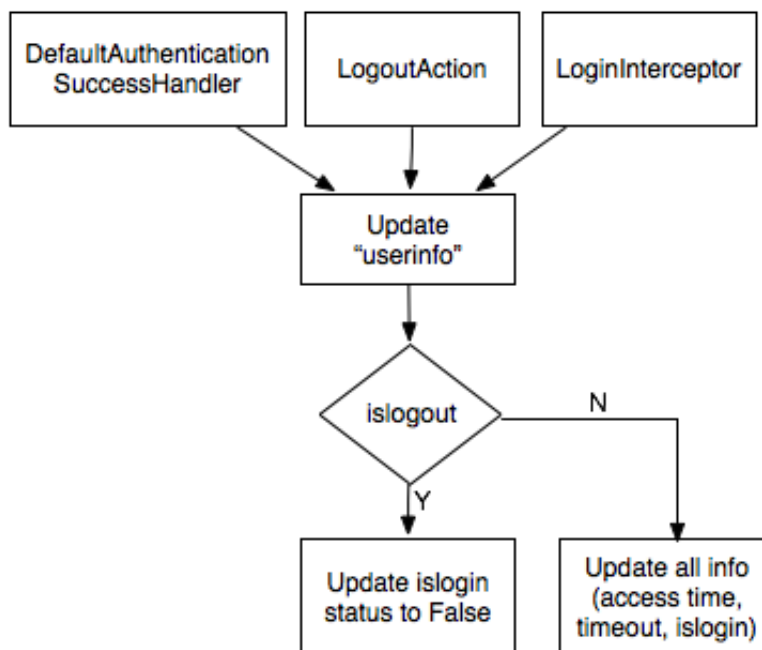


Diagram Idea

. . .

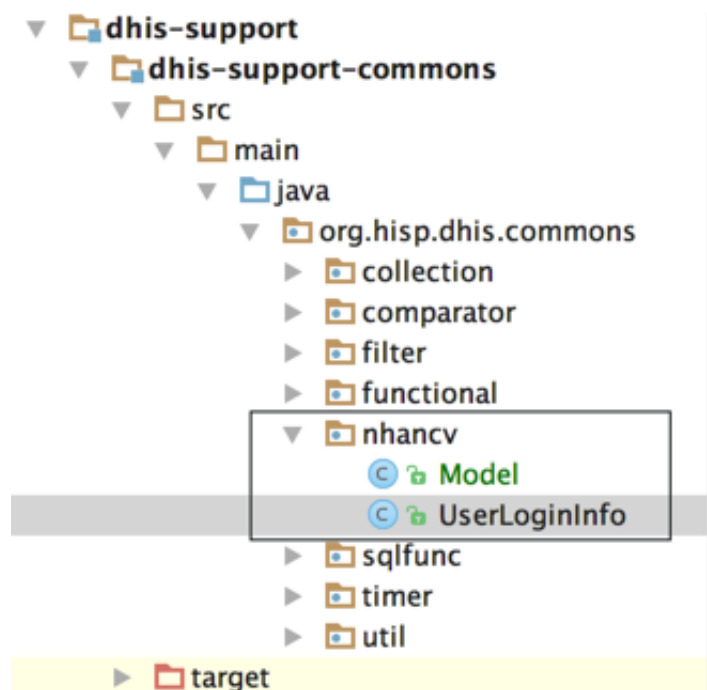
Implement sample

First, you can read two post related:

Custom Logout Feature in Dhis2 System (test in v2.20)

Flow Login in Dhis2 Sytem (test v2.20)

In dhis-support-commons: Create new package and 2 files like here



```
package org.hisp.dhis.commons.nhancv;

import java.util.HashMap;

/**
 * Created by nhancao on 3/4/16.
 */
public class Model
{
    public static HashMap<String, UserLoginInfo> LOGININFOLIST
= new HashMap<>();
}

package org.hisp.dhis.commons.nhancv;

/**
```

```
* Created by nhancao on 3/4/16.
*/
public class UserLoginInfo
{
    private String userName;
    private long accessTime;
    private long timeoutPeriod;
    private boolean login;

    public UserLoginInfo( String userName, long accessTime,
long timeoutPeriod, boolean status )
    {
        this.userName = userName;
        this.accessTime = accessTime;
        this.timeoutPeriod = timeoutPeriod;
        this.login = status;
    }

    public String getUserUsername()
    {
        return userName;
    }

    public long getAccessTime()
    {
        return accessTime;
    }

    public long getTimeoutPeriod()
    {
        return timeoutPeriod;
    }

    public boolean isLogin()
    {
        return login;
    }

    public void setLogin( boolean status )
    {
        this.login = status;
    }
}
```

In dhis-web-commons:

Edit dhis-2/dhis-web/dhis-web-commons/src/main/java/org/hisp/dhis/security/DefaultAuthenticationSuccessHandler.java

```

@Override
public void onAuthenticationSuccess( HttpServletRequest
request, HttpServletResponse response, Authentication
authentication )
    throws ServletException, IOException
{
    .....
    HttpSession sessionLogin = request.getSession();
    long now = new Date().getTime();
    long lastAccessed = sessionLogin.getLastAccessedTime();
    long timeoutPeriod =
DefaultAuthenticationSuccessHandler.DEFAULT_SESSION_TIMEOUT ;
    Model.LOGININFOLIST.put(
currentUserService.getCurrentUsername(), new UserLoginInfo(
currentUserService.getCurrentUsername(), lastAccessed,
timeoutPeriod, true ) );
    long remainingTime = ((timeoutPeriod * 1000) - (now -
lastAccessed)) / 1000;
    LoggerFactory.getLog( this.getClass() ).info( "Remaining time is
" + remainingTime + " seconds" );
}

```

Edit dhis-2/dhis-web/dhis-web-commons/src/main/java/org/hisp/dhis/security/action/LogoutAction.java

```

package org.hisp.dhis.security.action;

import com.opensymphony.xwork2.Action;
import org.hisp.dhis.commons.nhancv.Model;
import org.hisp.dhis.user.CurrentUserService;
import org.springframework.beans.factory.annotation.Autowired;

/**
 * Created by nhancao on 2/26/16.
 */
public class LogoutAction implements Action
{
    @Autowired
    private CurrentUserService currentUserService;

    @Override public String execute() throws Exception
    {
        Model.LOGININFOLIST.get(
currentUserService.getCurrentUsername() ).setLogin( false );
        System.out.println( "LOGOUT " +
currentUserService.getCurrentUsername() );
        return "success";
    }
}

```

```

    }
}

```

Edit dhis-2/dhis-web/dhis-web-commons/src/main/java/org/hisp/dhis/security/intercept/LoginInterceptor.java

```

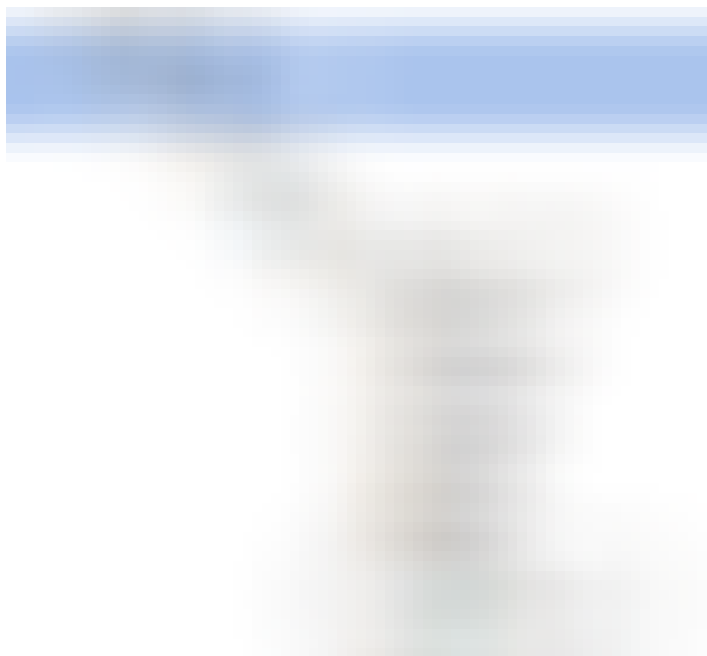
@Autowired
private CurrentUserService currentUserService;
@Override
public String intercept( ActionInvocation invocation )
    throws Exception
{
    Boolean jli = (Boolean)
ServletActionContext.getRequest().getSession()
    .getAttribute( LoginInterceptor.JLI_SESSION_VARIABLE
);

    if ( jli != null )
    {
        .....
    }else{
        HttpSession sessionLogin =
ServletActionContext.getRequest().getSession();
        long lastAccessed =
sessionLogin.getLastAccessedTime();
        long timeoutPeriod =
DefaultAuthenticationSuccessHandler.DEFAULT_SESSION_TIMEOUT;
        if (Model.LOGININFOLIST.containsKey(
currentUserService.getCurrentUsername() ))
        {
            Model.LOGININFOLIST.put (
currentUserService.getCurrentUsername(), new UserLoginInfo(
currentUserService.getCurrentUsername(), lastAccessed,
timeoutPeriod, true ) );
        }
    }
    return invocation.invoke();
}

```

In dhis-web-api:

Create new package and 1 file to make api



```
package org.hisp.dhis.webapi.controller.nhancv;

import org.hisp.dhis.commons.nhancv.Model;
import org.json.simple.JSONObject;
import org.springframework.http.HttpStatus;
import org.springframework.http.MediaType;
import org.springframework.http.ResponseEntity;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.ResponseBody;

import javax.servlet.http.HttpServletResponse;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;

/**
 * Created by nhancao on 3/4/16.
 */
@Controller
@RequestMapping( value = { NhanCV.RESOURCE_PATH }, method =
RequestMethod.GET )
public class NhanCV
{
    public static final String RESOURCE_PATH = "/nhancv";

    @RequestMapping
```

```

    public @ResponseBody ResponseEntity<Object>
    getAllUserLogin( HttpServletResponse response ) throws
    Exception
    {
        response.setContentType(
        MediaType.APPLICATION_JSON_VALUE );
        List<JSONObject> entities = new ArrayList<>();

        long now = new Date().getTime();
        for ( String key : Model.LOGININFOLIST.keySet() )
        {
            String userName = Model.LOGININFOLIST.get( key
            ).getUserName();
            long lastAccessed = Model.LOGININFOLIST.get( key
            ).getAccessTime();
            long timeoutPeriod = Model.LOGININFOLIST.get( key
            ).getTimeoutPeriod();
            long remainingTime = ((timeoutPeriod * 1000) -
            (now - lastAccessed)) / 1000;
            if ( Model.LOGININFOLIST.get( key ).isLogin() &&
            remainingTime > 0 )
            {
                Date date = new Date( lastAccessed );
                DateFormat formatter = new SimpleDateFormat(
                "HH:mm:ss:SSS" );
                String dateFormatted = formatter.format( date
                );

                JSONObject entity = new JSONObject();
                entity.put( "userName", userName );
                entity.put( "accessTime", dateFormatted );
                entity.put( "timeoutPeriod", timeoutPeriod );
                entities.add( entity );
            }
        }
        return new ResponseEntity<Object>( entities,
        HttpStatus.OK );
    }
}

```

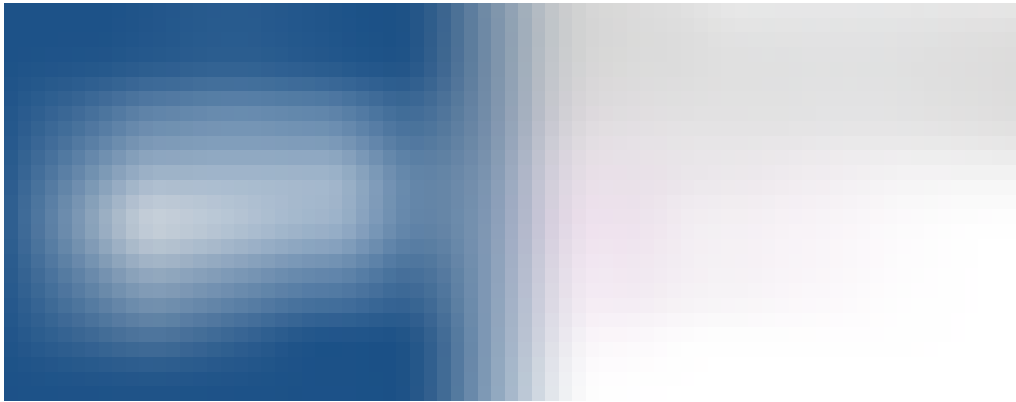
Build: mvn clean -Dmaven.test.skip=true install with 3 package

dhis-support-commons

dhis-web-commons

dhis-web-api

Access to **/api/nhancv.json** to test



Nhan Cao