

```

package sso;
/*
 * SSOEnablerBean.java
 *
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 */

```

```

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

```

```

import java.net.URL;
import java.net.InetAddress;

```

```

import java.sql.DriverManager;
import java.sql.Connection;

```

```

import oracle.jdbc.pool.OracleConnectionCacheImpl;

```

```

import oracle.security.sso.enabler.SSOEnabler;
import oracle.security.sso.enabler.SSOUserInfo;
import oracle.security.sso.enabler.SSOEnablerUtil;
import oracle.security.sso.enabler.SSOEnablerException;

```

```

public class SSOEnablerBean
{
    private String m_listenerToken    = null;
    private String m_requestedUrl     = null;
    private String m_onCancelUrl      = null;

    private String m_pappCookieName   = null;
    private String m_pappCookieDomain = null;
    private String m_pappCookieScope = null;

    private OracleConnectionCacheImpl m_connCache = null;

    /**

```

```

* Default constructor
*/
public SSOEnablerBean()
{
}

/**
* Set listener token
*/
public void setListenerToken(String p_listenerToken)
{
    m_listenerToken = p_listenerToken;
}

/**
* Set requested and cancel url
*/
public void setUrls(String p_requestedUrl, String p_cancelUrl)
{
    m_requestedUrl = p_requestedUrl;
    m_onCancelUrl = p_cancelUrl;
}

/**
* Set application cookie information
*/
public void setAppCookieInfo(String p_name, String p_domain, String p_path)
{
    m_pappCookieName    = p_name;
    m_pappCookieDomain  = p_domain;
    m_pappCookieScope   = p_path;
}

public void setDbConnectionInfo(String p_schema , String p_password,
    String p_hostname, int p_port, String p_sid, int p_dbPoolSize)
{
    try
    {
        m_connCache = new OracleConnectionCacheImpl();
        // m_connCache.setURL("jdbc:oracle:oci8:@");

        Class.forName("oracle.jdbc.driver.OracleDriver");
        m_connCache.setURL("jdbc:oracle:thin:@"
            + p_hostname + ":" + p_port + ":" + p_sid );

        m_connCache.setUser(p_schema);
    }
}

```

```
m_connCache.setPassword(p_password);
```

```
m_connCache.setMaxLimit(p_dbPoolSize);
```

```
// aggiunto da L.S.
```

```
m_connCache.setCacheScheme(OracleConnectionCacheImpl.FIXED_WAIT_SCHEME);
```

```
}
```

```
catch(Exception e)
```

```
{
```

```
    m_connCache = null;
```

```
}
```

```
}
```

```
/**
```

```
 * This method will return SSO user information. If the user is not authenticated against
```

```
 * SSO server then it will redirect user to the SSO Server for authentication
```

```
 */
```

```
public String getSSOUserInfo(HttpServletRequest p_request, HttpServletResponse p_response)
```

```
    throws SSOEnablerException
```

```
{
```

```
    String l_userName = null;
```

```
    if(p_request == null || p_response == null)
```

```
    {
```

```
        throw new SSOEnablerException("Http objects are null");
```

```
    }
```

```
    if(m_listenerToken == null)
```

```
    {
```

```
        throw new SSOEnablerException("Listener token is null");
```

```
    }
```

```
    if(m_requestedUrl == null || m_onCancelUrl == null)
```

```
    {
```

```
        throw new SSOEnablerException("Requested url and cancel url must be set");
```

```
    }
```

```
    try
```

```
    {
```

```
        // Get database connection
```

```
        Connection l_db_con = m_connCache.getConnection();
```

```
        // Try to get user information from application cookie
```

```
        l_userName = getUserInfo(p_request);
```

```
        System.out.println("ATTENZIONE:" + l_userName);
```

```

        if(l_userName == null)
        {
            // Create SSOEnabler object
            SSOEnabler l_ssoEnabler = new SSOEnabler(l_db_con);
            // Create redirect url to the SSO server for user authentication
            String l_redirectUrl =
                l_ssoEnabler.generateRedirect(m_listenerToken, m_requestedUrl,
m_onCancelUrl);

            // close database connection
            l_db_con.close();

            // p_response.sendRedirect(l_redirectUrl);

            // Since the redirect url is usually large so send the redirect url input
            // parameters using HTTP post method instead of usual GET method of
            // HttpServletResponse.sendRedirect
            //String htmlPostForm = SSOEnablerUtil.genHtmlPostForm(l_redirectUrl);
//System.out.println(htmlPostForm);
            //p_response.getWriter().println(htmlPostForm);
p_response.sendRedirect(l_redirectUrl);

            return null;
        }
        else
        {
            // We got this user information from application cookie
            SSOEnablerUtil l_ssoAppUtil = new SSOEnablerUtil(l_db_con);
            return l_ssoAppUtil.unbakeAppCookie(m_listenerToken, l_userName);
        }
    }
    catch(Exception e)
    {
        throw new SSOEnablerException(e.toString());
    }
}

/**
 * Get user information from application cookie
 */
private String getUserInfo(HttpServletRequest p_request)
    throws SSOEnablerException
{
    boolean l_gotPappCookie = false;
    String l_userInfo    = null;

    if(m_pappCookieName == null)

```

```

        throw new SSOEnablerException("Cookie name is null");
    try
    {
        Cookie[] l_cookies = p_request.getCookies();
        for(int i=0; i < l_cookies.length; i++)
        {
            Cookie l_pappCookie = l_cookies[i];
            if (l_pappCookie.getName().equals(m_pappCookieName))
            {
                l_gotPappCookie = true;
                l_userInfo    = l_pappCookie.getValue();
                if (l_userInfo.equalsIgnoreCase("logout")){l_userInfo = null;}
                break;
            }
        }
    }
    catch(Exception e)
    {
        return null;
    }

    if( (l_userInfo != null) && (l_userInfo.length() > 0) )
    {
        if (l_userInfo.equalsIgnoreCase("logout")){l_userInfo = null;}
        System.out.println("ATT2:" + l_userInfo);
        return l_userInfo;
    }
    else
    {
        return null;
    }
}

/**
 * This method will set application cookie from SSO server token and then redirect
 * user to the application
 */
public void setPartnerAppCookie(HttpServletRequest p_request, HttpServletResponse
p_response)
    throws SSOEnablerException
{
    if(p_response == null || p_request == null)
    {
        throw new SSOEnablerException("Http objects are null");
    }
}

```

```

if(m_listenerToken == null)
{
    throw new SSOEnablerException("Listener token is null");
}

if( m_pappCookieName == null
    || m_pappCookieDomain == null
    || m_pappCookieScope == null)
{
    throw new SSOEnablerException("Application cookie information is not available");
}

SSOUserInfo l_ssoUserInfo = null;
try
{
    String l_urlParam = p_request.getParameterValues("urlc")[0];
    if(l_urlParam != null)
    {
        // Get database connection
        Connection l_db_con = m_connCache.getConnection();

        // Create SSOEnabler object
        SSOEnabler l_ssoEnabler = new SSOEnabler(l_db_con);

        // Get IP address of the client
        InetAddress l_clientIp = InetAddress.getByName(p_request.getRemoteAddr());
        l_ssoUserInfo = l_ssoEnabler.getSSOUserInfo(m_listenerToken, l_urlParam,
l_clientIp);

        // Set application cookie
        SSOEnablerUtil l_ssoAppUtil = new SSOEnablerUtil(l_db_con);
        String l_bakedAppCookie =
            l_ssoAppUtil.bakeAppCookie(m_listenerToken, l_ssoUserInfo.
getSSOUserName());
        // Close database connection
        l_db_con.close();

        // Create application cookie and set it
        // ** IMPORTANT **
        // Time stamp **must** be added in this cookie and should implement
        // application cookie time out based on user in-activity etc.
        Cookie l_AppCookie = new Cookie(m_pappCookieName,
            l_bakedAppCookie);
        //l_AppCookie.setDomain(m_pappCookieDomain);
        // In-memory cookie for better security
        l_AppCookie.setMaxAge(-1);
    }
}

```

```
l_AppCookie.setPath(m_pappCookieScope);
p_response.addCookie(l_AppCookie);
```

```
String reqRedirHtmlStr = SSOEnablerUtil.genRedirect(l_ssoUserInfo.
getUrlRequested());
```

```
    p_response.getWriter().println(reqRedirHtmlStr);
}
else
{
    throw new SSOEnablerException("SSO server returned null user information");
}
}
catch(Exception e)
{
    throw new SSOEnablerException(e.toString());
}
}
```

```
/**
```

```
 * Remove application cookie to end user application session
```

```
 */
```

```
public void removeAppCookie(HttpServletResponse p_response)
    throws SSOEnablerException
```

```
{
    if(p_response == null)
    {
        throw new SSOEnablerException("HttpServletResponse is null");
    }
}
```

```
if( m_pappCookieName == null
    || m_pappCookieDomain == null
    || m_pappCookieScope == null)
{
    throw new SSOEnablerException("Application cookie information is not available");
}
```

```
Cookie l_AppCookie = new Cookie(m_pappCookieName, "logout");
//l_AppCookie.setDomain(m_pappCookieDomain);
l_AppCookie.setMaxAge(0);
l_AppCookie.setPath(m_pappCookieScope);
p_response.addCookie(l_AppCookie);
}
```

```
public void close()
{
```

```
        try
        {
            m_connCache.close();
        }
        catch(Exception e)
        {
        }
    }
}
```