

---+ Package TWiki::LoginManager

The package is also a Factory for login managers and also the base class for all login managers.

On it's own, an object of this class is used when you specify 'none' in the security setup section of configure. When it is used, logins are not supported. If you want to authenticate users then you should consider TemplateLogin or ApacheLogin, which are subclasses of this class.

If you are building a new login manager, then you should write a new subclass of this class, implementing the methods marked as **VIRTUAL**. There are already examples in the `lib/TWiki/LoginManager` directory.

The class has extensive tracing, which is enabled by `$TWiki::cfg{Trace}{LoginManager.pm}`. The tracing is done in such a way as to let the perl optimiser optimise out the trace function as a no-op if tracing is disabled.

Here's an overview of how it works:

Early in `TWiki::new`, the login manager is created. The creation of the login manager does two things:

1. If sessions are in use, it loads `CGI::Session` but doesn't initialise the session yet.
2. Creates the login manager object

Slightly later in `TWiki::new`, `loginManager->loadSession` is called.

1. Calls `loginManager->getUser` to get the username **before** the session is created
  - ◆ `TWiki::LoginManager::ApacheLogin` looks at `REMOTE_USER` (only for authenticated scripts)
  - ◆ `TWiki::LoginManager::TemplateLogin` just returns `undef`
2. reads the `TWIKISID` cookie to get the `SID` (or the `TWIKISID` parameters in the CGI query if cookies aren't available, or `IP2SID` mapping if that's enabled).
3. Creates the `CGI::Session` object, and the session is thereby read.
4. If the username still isn't known, reads it from the cookie. Thus `TWiki::LoginManager::ApacheLogin` overrides the cookie using `REMOTE_USER`, and `TWiki::LoginManager::TemplateLogin` **always** uses the session.

Later again in `TWiki::new`, plugins are given a chance to **override** the username found from the `loginManager`.

The last step in `TWiki::new` is to find the user, using whatever user mapping manager is in place.

## **twiki**

The `TWiki` object this login manager is attached to.

## **StaticMethod makeLoginManager (\$twiki) -> TWiki::LoginManager**

Factory method, used to generate a new `TWiki::LoginManager` object for the given session.

## **ClassMethod new (\$session, \$impl)**

Construct the user management object

## ObjectMethod finish ()

Break circular references.

## ClassMethod \_real\_trace (\$session, \$impl)

Construct the user management object

## ClassMethod \_IP2SID (\$session, \$impl)

read/write IP to SID map, return SID

## ObjectMethod loadSession (\$defaultUser) -> \$login

Get the client session data, using the cookie and/or the request URL. Set up appropriate session variables in the twiki object and return the login name.

\$defaultUser is a username to use if one is not available from other sources. The username passed when you create a TWiki instance is passed in here.

## ObjectMethod checkAccess ()

Check if the script being run in this session is authorised for execution. If not, throw an access control exception.

## ObjectMethod complete ()

Complete processing after the client's HTTP request has been responded to. Flush the user's session (if any) to disk.

## StaticMethod expireDeadSessions ()

Delete sessions and passthrough files that are sitting around but are really expired. This **assumes** that the sessions are stored as files.

This is a static method, but requires TWiki::cfg. It is designed to be run from a session or from a cron job.

## ObjectMethod userLoggedIn (\$login, \$wikiname)

Called when the user is known. It's invoked from TWiki::UI::Register::finish for instance,

1. when the user follows the link in their verification email message
2. or when the session store is read
3. when the user authenticates (via templatelogin / sudo)

- \$login - string login name
- \$wikiname - string wikiname

## **ObjectMethod `_myScriptURLRE` (`$this1`)**

## **ObjectMethod `_rewriteURL` (`$this1`)**

## **ObjectMethod `_rewriteFORM` (`$this1`)**

## **ObjectMethod `endRenderingHandler` ()**

This handler is called by `getRenderedVersion` just before the plugins `postRenderingHandler`. So it is passed all HTML text just before it is printed.

**DEPRECATED** Use `postRenderingHandler` instead.

## **ObjectMethod `_pushCookie` (`$this1`)**

## **ObjectMethod `addCookie` (`$c`)**

Add a cookie to the list of cookies for this session.

- `$c` - a `CGI::Cookie`

## **ObjectMethod `modifyHeader` (`\%header`)**

Modify a HTTP header

- `\%header` - header entries

## **ObjectMethod `redirectCgiQuery` (`$url`)**

Generate an HTTP redirect on STDOUT, if you can. Return 1 if you did.

- `$url` - target of the redirection.

## **ObjectMethod `getSessionValues` () -> `\%values`**

Get a name->value hash of all the defined session variables

## **ObjectMethod `getSessionValue` (`$name`) -> `$value`**

Get the value of a session variable.

## **ObjectMethod `setSessionValue` (`$name`, `$value`)**

Set the value of a session variable. We do not allow setting of `AUTHUSER` and `SESSION_REQUEST_NUMBER`.

## **ObjectMethod clearSessionValue (\$name) -> \$boolean**

Clear the value of a session variable. We do not allow setting of AUTHUSER.

## **ObjectMethod forceAuthentication () -> boolean**

**VIRTUAL METHOD** implemented by subclasses

Triggered by an access control violation, this method tests to see if the current session is authenticated or not. If not, it does whatever is needed so that the user can log in, and returns 1.

If the user has an existing authenticated session, the function simply drops through and returns 0.

## **ObjectMethod loginUrl (...) -> \$url**

**VIRTUAL METHOD** implemented by subclasses

Return a full URL suitable for logging in.

- ... - url parameters to be added to the URL, in the format required by TWiki::getScriptUrl()

## **ObjectMethod getUser ()**

**VIRTUAL METHOD** implemented by subclasses

If there is some other means of getting a username - for example, Apache has remote\_user() - then return it. Otherwise, return undef and the username stored in the session will be used.

## **ObjectMethod \_LOGIN (\$this1)**

## **ObjectMethod \_LOGOUTURL (\$this1)**

## **ObjectMethod \_LOGOUT (\$this1)**

## **ObjectMethod \_AUTHENTICATED (\$this1)**

## **ObjectMethod \_CANLOGIN (\$this1)**

## **ObjectMethod \_SESSION\_VARIABLE (\$this1)**

## **ObjectMethod \_LOGINURL (\$this1)**

## **ObjectMethod \_dispLogon (\$this1)**

## **\_skinSelect ()**

Internal use only TODO: what does it do?

## TWikiLoginManagerDotPm < TWiki21Nov < TWiki

sub createCryptToken ( \$session )-> \$token Takes the input as session and returns the MD5 hash string. This subroutine is responsible for updating the token database

The tokens solve the CSRF issue

```
sub cleanCryptTokens($session, $token)
```

This subroutine takes care of cleaning used tokens Usually called from token verification subroutines.

```
sub addCryptTokeninForm ( )-> returns the form with "crypttoken" html input hidden field
```

If TWiki Application developer has added "crypttoken" then the current subroutine returns the form without performing any parsing. If the form with method - POST do not have any "crypttoken", this subroutine adds the token.

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