

---+ Package TWiki::Users::BaseUserMapping

User mapping is the process by which TWiki maps from a username (a login name) to a display name and back. It is also where groups are maintained.

The BaseMapper provides support for a small number of predefined users. No registration - this is a read only usermapper. It uses the mapper prefix 'BaseUserMapping\_'.

## Users

- TWikiAdmin - uses the password that was set in Configure (IF its not null)
- TWikiGuest
- UnknownUser
- TWikiContributor - 1 Jan 2005
- TWikiRegistrationAgent - 1 Jan 2005

## Groups

- \$TWiki::cfg{SuperAdminGroup}
- TWikiBaseGroup

## ClassMethod new (\$session)

Construct the BaseUserMapping object

## ObjectMethod finish ()

Break circular references.

## ObjectMethod loginTemplateName () -> templateFile

allows UserMappings to come with customised login screens - that should prefferably only over-ride the UI function

## ObjectMethod handlesUser (\$cUID, \$login, \$wikiname) -> \$boolean

See baseclass for documentation.

In the BaseUserMapping case, we know all the details of the users we specialise in.

## ObjectMethod login2cUID (\$login) -> \$cUID

Convert a login name to the corresponding canonical user name. The canonical name can be any string of 7-bit alphanumeric and underscore characters, and must correspond 1:1 to the login name. (undef on failure)

## ObjectMethod getLoginName (\$cUID) -> login

converts an internal cUID to that user's login (undef on failure)

**ObjectMethod getWikiName (\$cUID) -> wikiname**

Map a canonical user name to a wikiname

**ObjectMethod userExists (\$user) -> \$boolean**

Determine if the user already exists or not.

**ObjectMethod eachUser () -> listIteratorofcUIDs**

See baseclass for documentation.

**ObjectMethod eachGroupMember (\$group) ->  
listIteratorofcUIDs**

See baseclass for documentation.

The basemapper implementation assumes that there are no nested groups in the basemapper.

**ObjectMethod isGroup (\$name) -> boolean**

See baseclass for documentation.

**ObjectMethod eachGroup () ->  
ListIteratorofgroupnames**

See baseclass for documentation.

**ObjectMethod eachMembership (\$cUID) ->  
ListIteratorofgroupsthisuserisin**

See baseclass for documentation.

**ObjectMethod isAdmin (\$cUID) -> \$boolean**

True if the user is an admin

- is a member of the \$TWiki::cfg{SuperAdminGroup}

**ObjectMethod getEmails (\$name) -> @emailAddress**

If \$name is a cUID, return their email addresses. If it is a group, return the addresses of everyone in the group.

**ObjectMethod getUserData (\$cUID) -> \$dataRef**

Return a reference to an array of hashes with user data, used to manage users. Each item is a hash with:

- {name} - name of field, such as "email"
- {title} - title of field, such as "E-mail"
- {value} - value of field, such as "jimmy@example.com"
- {type} - type of field: text, password, checkbox, label
- {size} - size of field, such as 40
- {note} - comment note, if any

User management forms can be build dynamically from this data structure. Each password manager may return a different set of fields.

## **ObjectMethod findUserByWikiName (\$wikiname) -> listofcUIDsassociatedwiththatwikiname**

See baseclass for documentation.

## **ObjectMethod checkPassword (\$login, \$passwordU) -> \$boolean**

Finds if the password is valid for the given user.

Returns 1 on success, undef on failure.

## **ObjectMethod setPassword (\$cUID, \$newPassU, \$oldPassU) -> \$boolean**

If the \$oldPassU matches matches the user's password, then it will replace it with \$newPassU.

If \$oldPassU is not correct and not 1, will return 0.

If \$oldPassU is 1, will force the change irrespective of the existing password, adding the user if necessary.

Otherwise returns 1 on success, undef on failure.

## **ObjectMethod passwordError () -> \$string**

returns a string indicating the error that happened in the password handlers TODO: these delayed error's should be replaced with Exceptions.

returns undef if no error

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