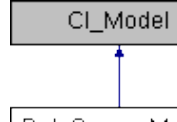# Data Structure Documentation

DataSourceModel Class Reference

Inheritance diagram for DataSourceModel:

Public Member Functions

- **__construct** ()
- **addDataSourceApp** ($userID, $dataSource=NULL)
- **addDataSourceProject** ($dataSourceID, $projectID, $askAccess)
- **addFileUser** ($dataSourceID, $userID, $dataSourceUser)
- **deleteDataSource** ($dataSourceID)
- **deleteUserDataSource** ($userID, $dataSourceID)
- **deleteDataSourceProject** ($dataSourceID, $projID)
- **deleteAllDataSourcesUser** ($userID)
- **deleteAllUsersDataSource** ($dataSourceID)
- **deleteAllProjectsDataSource** ($dataSourceID)
- **deleteAllDataSourcesProject** ($projectID)
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- **updateDataSourceUser** ($dataSourceID, $userID, $dataSourceUser=NULL)
- **updateDataSourceProject** ($dataSourceID, $projectID, $askAccess)
- **getDataSource** ($dataSourceID)
- **getOwnedDataSources** ($userID)
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- **getDataSourceUsers** ($dataSourceID, $filter=NULL, $and=false)
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- **getDataSourceProjects** ($dataSourceID, $filter=NULL, $and=false)

Constructor & Destructor Documentation

__construct ()

__construct() is the constructor which initiates the connection to the database

Member Function Documentation

addDataSourceApp (*$userID*, *$dataSource* = NULL)

addDataSourceApp() is a method for adding a file

Parameters:

$userID	is is the id of the owner of the data source
$dataSource	is an array containing the informations about the data source
$dataSource	['name'] (required) is the name of the data source
$dataSource	['url'] (optional) is the access url to the data source (default value=NULL)
$dataSource	['appli'] (optional) means if the id is an application (1) or not (0) =default
$dataSource	['config'] (optional) could be, for exemple, a JSON app configuration file

$dataSource	['visible'] (required) means if the data source have to be hidden (=2), visible (=1) or on demand (=0, default)

Returns:

new data source id if insert succeeded and FALSE if not

addDataSourceProject (*$dataSourceID*, *$projectID*, *$askAccess*)

addDataSourceProject() is a method to link a data source to a project

Parameters:

$dataSourceID	(required) is the id of a data source
$projectID	(required) is the id of the project
$askAccess	(required) means if an access request is refused (2), if it is accepted (1) or if it is made (0) = default

Returns:

TRUE if insert succeeded and FALSE if not

addFileUser (*$dataSourceID*, *$userID*, *$dataSourceUser*)

addFileUser() is a method to add a data source for a user

Parameters:

$dataSourceID	(required) is the id of a data source
$userID	(required) is the id of a user
$dataSourceUser	(required) is an array containing the informations of the type of access has a user for a data source
$dataSourceUser	['read'] (required) means if a user may read a data source or not (0) = default
$dataSourceUser	['modify'] (required) means if a user may modify a data source or not (0) = default
$dataSourceUser	['remove'] (required) means if a user may remove a data source or not (0) = default
$dataSourceUser	['askaccess'] (required) means if an access request is refused (2), if it is accepted (1) or if the request is made (0) = default

Returns:

TRUE if insert succeeded and FALSE if not

deleteAllDataSourcesProject (*$projectID*)

deleteAllDataSourcesProject() remove all data sources for a specific project

Parameters:

$projectID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

deleteAllDataSourcesUser (*$userID*)

deleteAllDataSourcesUser() remove all data sources for a specific user

Parameters:

$userID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

deleteAllProjectsDataSource (*$dataSourceID*)

deleteAllProjectsDataSource() remove all projects for a specific data source

Parameters:

$dataSourceID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

deleteAllUsersDataSource (*$dataSourceID*)

deleteAllUsersDataSource() remove all users for a specific data source

Parameters:

$dataSourceID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

deleteDataSource (*$dataSourceID*)

deleteDataSource() delete a data source based on its id

Parameters:

$dataSourceID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

deleteDataSourceProject (*$dataSourceID*, *$projID*)

deleteDataSourceProject() remove a data source for a specific project

Parameters:

$dataSourceID	
$projID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

deleteUserDataSource (*$userID*, *$dataSourceID*)

deleteUserDataSource() remove a data source for a specific user

Parameters:

$userID	
$dataSourceID	

Returns:

a boolean (TRUE if deletion has been applied, FALSE if not)

getDataSource (*$dataSourceID*)

getDataSource() this method returns a data source based on its id

Parameters:

$dataSourceID	data source id

Returns:

a data source with its informations
$response['id'] is the data source id
$response['owner_id'] is the owner id
$response['name']is the name of the data source
$response['url'] is the url of the data source
$response['application'] 0 for file and 1 for application
$response['configuration'] is the configuration File
$response['visible'] default visibility attribute for user files (0=hidden, 1=visible, 2=on demand)
$response['add_date'] is the creation date of the data source in the database

getDataSourceProjects ($dataSourceID, $filter = NULL, $and = false)

getDataSourceProjects() is a method for searching the projects linked with a data source in the database

Parameters:

$filter	is optional and is an array containing search criterions
$filter['project_na me']	is optional and contains the name (can be partial) of searched project(s)
$filter['ask_access']	is optional and contains the access state (0=on demand, 1=OK, 2=KO) to the searched project(s)
$filter['ask_date']	is optional and contains the date when asked an access to the searched project(s)
$and	is optional and is an boolean which is FALSE (default behavior) for processing the search query with OR operators and TRUE for AND operators

Returns:

an array of files (ordered by date)

See also:

getUserDataSources() for the data structure of returned projects

getDataSources ($filter = NULL, $and = false)

getDataSources() is a method for searching data sources in the database

Parameters:

$filter	is optional and is an array containing search criterions
$filter['file_name']	is optional and contains the name (can be partial) of searched data source(s)
$filter['file_url']	is optional and contains the url (can be partial) of searched data source(s)
$filter['application ']	is optional and contains 0 for file and 1 for application
$filter['visible']	is optional and contains the default visible attribute for other users (0=hidden, 1=visible, 2=on demand)
$filter['add_date']	is optional and contains date when the data source(s) was/were added
$and	is optional and is an boolean which is FALSE (default behavior) for processing the search query with OR operators and TRUE for AND operators

Returns:

an array of data sources (ordered by date)

See also:

getFiles() for the data structure of returned data sources

getDataSourceUsers ($dataSourceID, $filter = NULL, $and = false)

getDataSourceUsers() is a method for searching the users of a data source in the database

Parameters:

$filter	is optional and is an array containing search criterions
$filter['user_name']	is optional and contains the lastname (can be partial) of searched user(s)
$filter['user_firstn ame']	is optional and contains the firstname (can be partial) of searched user(s)
$filter['access_stat e']	is optional and is a boolean which is for the access state (0 = asked, 1 OK, 2 KO)
$filter['ask_date']	is optional and contains date when the user asked an access to the searched data source
$and	is optional and is an boolean which is FALSE (default behavior) for processing the search query with OR operators and TRUE for AND operators

Returns:

an array of data source(s) (ordered by date)

See also:

getDataSourceFiles() for the data structure of returned files

getOwnedDataSources (*$userID*)

getOwnedDataSources() this method returns the data sources that belong to a user

Parameters:

$userID	user id

Returns:

data sources with the firstname and lastname of the owner
$response['id'] is the data source id
$response['file_name'] is the name of the data source
$response['url'] is the URL of the data source
$response['application'] 0 for file and 1 for application
$response['configuration'] is the configuration File
$response['visible'] default visibility attribute for user files (0=hidden, 1=visible, 2=on demand)
$response['add_date'] is the creation date of the data source in the database

getProjectDataSources (*$projecID*, *$filter* = `NULL`, *$and* = `false`)

getProjectDataSources() is a method for searching the data sources of a project in the database

Parameters:

$filter	is optional and is an array containing search criterions
$filter['file_name']	is optional and contains the name (can be partial) of searched data source(s)
$filter['file_url']	is optional and contains the url of the searched data source(s) or not
$filter['application']	is optional and contains 1 if it's an application and 0 if not
$filter['config']	is optional and contains the config file
$filter['visible']	is optional and contains the default visible attribute for user data sources (0=hidden, 1=visible, 2=on demand)
$filter['add_date']	is optional and contains the creation date of searched data source(s)
$filter['access_state']	is optional and contains the access state (0=on demand, 1=OK, 2=KO) to the searched data source(s) or not
$filter['ask_date']	is optional and contains the date when asked an access to the searched data source(s) or not
$and	is optional and is an boolean which is FALSE (default behavior) for processing the search query with OR operators and TRUE for AND operators

Returns:

an array of data sources (ordered by date)

See also:

getProjectDataSources() for the data structure of returned data sources

getUserDataSources (*$userID*, *$filter* = `NULL`, *$and* = `false`)

getUserDataSources() is a method for searching the data sources of a user in the database

Parameters:

$filter	is optional and is an array containing search criterions
$filter['file_name']	is optional and contains the name (can be partial) of searched data source(s)
$filter['f_read']	is optional and contains the right to read the searched data source(s) or not
$filter['f_modify']	is optional and contains the right to modify the searched data source(s) or not
$filter['f_remove']	is optional and contains the right to remove the searched data source(s) or not

$filter['access_state']	is optional and contains the access state (0=on demand, 1=OK, 2=KO) the searched data source(s) or not
$filter['ask_date']	is optional and contains the date when the user asked an access to the searched data source(s) or not
$filter['file_url']	is optional and contains the url of the searched data source(s) or not
$filter['application']	is optional and contains 1 if it's an application and 0 if not
$filter['config']	is optional and contains the config file
$filter['visible']	is optional and contains the default visible attribute for user data sources (0=hidden, 1=visible, 2=on demand)
$filter['add_date']	is optional and contains the creation date of searched data source(s)
$and	is optional and is an boolean which is FALSE (default behavior) for processing the search query with OR operators and TRUE for AND operators

Returns:

an array of files (ordered by date)

See also:

getUserDataSources() for the data structure of returned files

updateDataSource (*$dataSourceID*, *$userID* = NULL, *$dataSource* = NULL)

updateDataSource() is a method for updating a specific data source

Parameters:

$userID	is is the id of the owner of the data source
$dataSource	is an array containing the informations about the data source
$dataSourceID	is the id of the data source
$dataSource	['name'] (optional) is the new name of the data source
$dataSource	['url'] (optional) is the new access url to the data source (default value=NULL)
$dataSource	['appli'] (optional) means if the id is an application (1) or not (0) =default
$dataSource	['config'] (optional) could be, for exemple, a JSON app configuration file
$dataSource	['visible'] (optional) means if the data source have to be hidden (=2), visible (=1) or if it is accessible on request (=0)

Returns:

TRUE if update succeeded and FALSE if not

updateDataSourceProject (*$dataSourceID*, *$projectID*, *$askAccess*)

updateDataSourceProject() is a method for updating the access of a project to a data source

Parameters:

$dataSourceID	contains the id of the the id of the data source
$projectID	is the ID of the project
$askAccess	(required) means if an access request is refused (2), if it is accepted (1) or if the request is made (0) = default

Returns:

TRUE if update succeeded and FALSE if not

updateDataSourceUser (*$dataSourceID*, *$userID*, *$dataSourceUser* = NULL)

updateDataSourceUser() is a method for updating the access of a user to a data source

Parameters:

$dataSourceID	contains the id of the data source
$userID	is the id of the user
$dataSourceUser	['read'] (optional) means if a user may read a data source or not (0) = default
$dataSourceUser	['modify'] (optional) means if a user may modify a data source or not (0) = default
$dataSourceUser	['remove'] (optional) means if a user may remove a data source or not (0) =

	default
$dataSourceUser	['askaccess'] (optional) means if an access request is refused (2), if it is accepted (1) or if the request is made (0) = default

Returns:

TRUE if update succeeded and FALSE if not

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