

Package ‘MolgenisArmadillo’

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Title Armadillo Client for the Armadillo Service

Description A set of functions to manage data shared on a 'MOLGENIS Armadillo' server.

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<https://molgenis.github.io/molgenis-r-armadillo/>

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`.add_slash_if_missing` *Add a Slash to a URL if Missing*

Description

This function ensures that a given URL string ends with a slash ('/'). If the URL does not end with a slash, it appends one.

Usage

```
.add_slash_if_missing(url)
```

Arguments

url A character string representing the URL.

Value

A character string with a trailing slash if it was missing.

.compress_resource *Helper function for compressing to an RDS file*

Description

Helper function for compressing to an RDS file

Usage

```
.compress_resource(resource, file)
```

Arguments

resource the resource to write to file
file the name of the file (without extension)

Value

the extension of the file

.compress_table *Helper function for compressing to a parquet file*

Description

Helper function for compressing to a parquet file

Usage

```
.compress_table(table, file)
```

Arguments

table the table to write to file
file the name of the file (without extension)

Value

the extension of the file

`.format_api_posts` *Formats API posts based on subset definition*

Description

Formats API posts based on subset definition

Usage

```
.format_api_posts(posts, subset_def)
```

Arguments

<code>posts</code>	A list of API posts
<code>subset_def</code>	A tibble containing subset definition

Value

A tibble consisting of original `subset_def` with columns 'posts' and 'status' appended.

`.get_linkfile_content` *Helper function to get the contents of a linkfile*

Description

Helper function to get the contents of a linkfile

Usage

```
.get_linkfile_content(project, object_name)
```

Arguments

<code>project</code>	projectname where the linkfile is stored
<code>object_name</code>	folder/name of linkfile

Value

the contents of the linkfile

.load_linked_table *Helper function to extract the source parquet file in a linkfile*

Description

Helper function to extract the source parquet file in a linkfile

Usage

```
.load_linked_table(file, columns)
```

Arguments

file source table parquet file
columns character list of columns to select from source file

Value

the contents of the file, as data frame

.load_resource *Helper function to extract an RDS file*

Description

Helper function to extract an RDS file

Usage

```
.load_resource(file)
```

Arguments

file file to extract

Value

the contents of the file

<code>.load_table</code>	<i>Helper function to extract a parquet file</i>
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Description

Helper function to extract a parquet file

Usage

```
.load_table(file)
```

Arguments

<code>file</code>	file to extract
-------------------	-----------------

Value

the contents of the file, as data frame

<code>armadillo.copy_resource</code>	<i>Copy resource</i>
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Description

Copy resource

Usage

```
armadillo.copy_resource(  
  project,  
  folder,  
  name,  
  new_folder = folder,  
  new_name = name  
)
```

Arguments

<code>project</code>	study or other variable collection
<code>folder</code>	the folder containing the resource
<code>name</code>	specific resource for copy action
<code>new_folder</code>	name of the folder in which to place the copy, defaults to folder
<code>new_name</code>	name of the copy, defaults to name

Value

the response from the server

Examples

```
## Not run:
armadillo.copy_resource(
  project = "gecko",
  folder = "core_all",
  name = "table1",
  new_folder = "core_all_v2",
)

## End(Not run)
```

armadillo.copy_table *Copy table*

Description

Copy table

Usage

```
armadillo.copy_table(
  project,
  folder,
  name,
  new_folder = folder,
  new_name = name
)
```

Arguments

project	study or other variable collection
folder	the folder containing the table
name	specific table for copy action
new_folder	name of the folder in which to place the copy, defaults to folder
new_name	name of the copy, defaults to name

Value

the response from the server

Examples

```
## Not run:
armadillo.copy_table(
  project = "gecko",
  folder = "core_all",
  name = "table1",
  new_folder = "core_all_v2",
)

## End(Not run)
```

```
armadillo.create_project
```

Create a project for a variable collection

Description

Create a project for a variable collection

Usage

```
armadillo.create_project(
  project_name = NULL,
  users = NULL,
  overwrite_existing = "choose"
)
```

Arguments

<code>project_name</code>	The name of the project to create. The project name <ul style="list-style-type: none"> • cannot be empty. • must be no more than 56 characters. • cannot end with a -. • must consist of lowercase letters and numbers.
<code>users</code>	A list collection of the users that should have access to the project
<code>overwrite_existing</code>	Character, specifying action to take if project still exists: 'choose' (default) displays a menu giving the option to overwrite or not, 'yes' overwrites the existing project and 'no' exists the function with a message.

Examples

```
## Not run:
armadillo.create_project("gecko")

## End(Not run)
```

```
armadillo.delete_project
    Delete project
```

Description

A project represents usually a study or collection of variables

Usage

```
armadillo.delete_project(project_name)
```

Arguments

project_name the name of the study or collection of variables name

Examples

```
## Not run:
armadillo.delete_project(project_name = "gecko")

## End(Not run)
```

```
armadillo.delete_project_folder
    Delete project folder
```

Description

Delete project folder

Usage

```
armadillo.delete_project_folder(project, folder)
```

Arguments

project project to delete the object from
folder folder to delete the object from

armadillo.delete_resource
Delete resource

Description

Delete resource

Usage

```
armadillo.delete_resource(project, folder, name)
```

Arguments

project	project to delete the resource from
folder	folder to delete the resource from
name	resource name

Examples

```
## Not run:  
armadillo.delete_resource(  
  project = "gecko",  
  folder = "core_all",  
  name = "table1"  
)  
  
## End(Not run)
```

armadillo.delete_table
Delete table

Description

Delete table

Usage

```
armadillo.delete_table(project, folder, name)
```

Arguments

project	project to delete the table from
folder	folder to delete the table from
name	table name

Examples

```
## Not run:  
armadillo.delete_table(  
  project = "gecko",  
  folder = "core_all",  
  name = "table1"  
)  
  
## End(Not run)
```

armadillo.get_projects_info
Gets the Projects information

Description

Gets the Projects information

Usage

```
armadillo.get_projects_info()
```

Value

the projects and their information

Examples

```
## Not run:  
armadillo.get_projects_info()  
  
## End(Not run)
```

armadillo.get_project_users
Gets the users of an given project name

Description

Gets the users of an given project name

Usage

```
armadillo.get_project_users(project_name)
```

Arguments

project_name the name of the project to extract the users from

Value

List of all users within "project_name"

Examples

```
## Not run:  
armadillo.get_project_users("some-project")  
  
## End(Not run)
```

```
armadillo.install_packages  
                          Install package
```

Description

Installs a user defined package into the provided profile. The package is automatically whitelisted after installation. Only available during development.

Usage

```
armadillo.install_packages(paths, profile = "default")
```

Arguments

paths the path(s) to the package(s), can be a vector or a string
profile the selected profile

```
armadillo.list_projects  
                          List the projects
```

Description

List the projects

Usage

```
armadillo.list_projects()
```

Value

the projects

Examples

```
## Not run:  
armadillo.list_projects()  
  
## End(Not run)
```

armadillo.list_resources
List the resources in a project

Description

List the resources in a project

Usage

```
armadillo.list_resources(project)
```

Arguments

project the shared project in which the resources are located

Value

the resources in the project

Examples

```
## Not run:  
armadillo.list_resources("gecko")  
  
## End(Not run)
```

armadillo.list_tables *List the tables in a project*

Description

List the tables in a project

Usage

```
armadillo.list_tables(project)
```

Arguments

project the shared project in which the tables are located

Value

the table names, without the extension

Examples

```
## Not run:  
armadillo.list_tables("gecko")  
  
## End(Not run)
```

armadillo.load_resource
Load a resource from a project

Description

Load a resource from a project

Usage

```
armadillo.load_resource(project, folder, name)
```

Arguments

project study or collection variables
folder the folder containing the resource
name name of the resource

Value

the loaded resource

Examples

```
## Not run:
armadillo.load_resource(
  project = "gecko",
  folder = "core_all",
  name = "lc_core_1"
)

## End(Not run)
```

armadillo.load_table *Load a table from a project*

Description

Load a table from a project

Usage

```
armadillo.load_table(project, folder, name)
```

Arguments

project	study or collection variables
folder	the folder containing the table
name	name of the table

Value

the contents of the table file, as data frame

Examples

```
## Not run:
armadillo.load_table(
  project = "gecko",
  folder = "core_all",
  name = "lc_core_1"
)

## End(Not run)
```

armadillo.login *Login*

Description

Interactively obtains an id token and uses it to create a session token for an Armadillo Service

Usage

```
armadillo.login(armadillo)
```

Arguments

armadillo URL of the Armadillo server,

Value

the id token

Examples

```
## Not run:  
armadillo.login(  
  "https://armadillo.dev.molgenis.org"  
)  
armadillo.login("http://localhost:8080")  
  
## End(Not run)
```

armadillo.login_basic *Login with username / password (meant for dev and test environments)*

Description

Login with username / password (meant for dev and test environments)

Usage

```
armadillo.login_basic(armadillo, username, password)
```

Arguments

armadillo URL of the Armadillo server
username the username
password the password

Examples

```
## Not run:
armadillo.login(
  "https://armadillo.dev.molgenis.org", "admin", "admin"
)
armadillo.login("http://localhost:8080", "admin", "admin")

## End(Not run)
```

armadillo.move_resource

Move the resource

Description

Move the resource

Usage

```
armadillo.move_resource(
  project,
  folder,
  name,
  new_folder = folder,
  new_name = name
)
```

Arguments

project	a study or collection of variables
folder	the folder containing the resource to move
name	a resource to move
new_folder	the folder to move the resource to, defaults to folder
new_name	use to rename the file, defaults to name

Value

NULL, invisibly

Examples

```
## Not run:
armadillo.move_resource(
  project = "gecko",
  folder = "core_all",
  name = "table1",
```

```
    new_folder = "core_all_v2",  
  )  
  
  ## End(Not run)
```

armadillo.move_table *Move the table*

Description

Move the table

Usage

```
armadillo.move_table(  
  project,  
  folder,  
  name,  
  new_folder = folder,  
  new_name = name  
)
```

Arguments

project	a study or collection of variables
folder	the folder containing the table to move
name	a table to move
new_folder	the folder to move the table to, defaults to folder
new_name	use to rename the file, defaults to name

Value

NULL, invisibly

Examples

```
## Not run:  
armadillo.move_table(  
  project = "gecko",  
  folder = "core_all",  
  name = "table1",  
  new_folder = "core_all_v2",  
)  
  
## End(Not run)
```

armadillo.subset *Describes data available to subset and makes subset*

Description

This automates the process of:

1. Checking what data is available to create subsets
2. Make the subset

Usage

```
armadillo.subset(
  input_source = NULL,
  subset_def = NULL,
  source_project = NULL,
  source_folder = NULL,
  source_table = NULL,
  target_project = NULL,
  target_folder = NULL,
  target_table = NULL,
  target_vars = NULL,
  new_project = NULL,
  dry_run = NULL,
  strict = FALSE
)
```

Arguments

<code>input_source</code>	Character specifying how information about the target view is provided: choose 'subset_def' if providing a subset definition object, or 'arguments' if providing information directly.
<code>subset_def</code>	R object containing subset definition created by <code>armadillo.subset_definition()</code> . Compulsory if <code>input_source = 'subset_def'</code>
<code>source_project</code>	project from which to subset data
<code>source_folder</code>	folder from which to subset data. Compulsory if <code>input_source = 'arguments'</code> .
<code>source_table</code>	table from which to subset data. Compulsory if <code>input_source = 'arguments'</code> .
<code>target_project</code>	project to upload subset to. Will be created if it doesn't exist.
<code>target_folder</code>	folder to upload subset to. Will be created if it doesn't exist. Compulsory if <code>input_source = 'arguments'</code> .
<code>target_table</code>	table to upload subset to. Compulsory if <code>input_source = 'arguments'</code> .
<code>target_vars</code>	variables from 'source_table' to include in the view. Compulsory if <code>input_source = 'arguments'</code> .
<code>new_project</code>	Deprecated: use <code>target_project</code> instead

`dry_run` Defunct: previously enabled dry-run to check which variables are missing

`strict` Boolean specifying whether to create subset if one or more target variables do not exist in the target data. Option FALSE will throw an error, option TRUE (default) creates subset and return a warning

Value

missing variables provided in the subset definition

Examples

```
## Not run:
armadillo.subset(
  source_project = "gecko",
  target_project = "study1",
  subset_def = local_subset
)

## End(Not run)
```

armadillo.subset_definition

Builds an R object containing info required to make subsets

Description

Builds an R object containing info required to make subsets

Usage

```
armadillo.subset_definition(reference_csv = NULL, vars = NULL)
```

Arguments

`reference_csv` .csv file containing details of the variable to subset. Must contain 5 columns: 'source_folder' specifying the folder from which to subset, 'source_table' specifying the table from which to subset, 'target_folder' specifying the folder in which to create the subset 'target_table' specifying the name of the subset and 'variable' specifying the variable(s) to include in the subset. Note that 'source_project' and 'target_project' are specified as arguments to 'armadillo.subset'.

`vars` Deprecated: use `reference_csv` instead

Value

A dataframe containing variables that is used for input in the `armadillo.subset()` method

Examples

```
## Not run:
armadillo.subset_definition(
  reference_csv = "C:/tmp/vars.csv"
)

## End(Not run)
```

armadillo.upload_resource

Uploads a resource to a folder in a project

Description

Uploads a resource to a folder in a project

Usage

```
armadillo.upload_resource(project, folder, resource, name = NULL)
```

Arguments

project	the project to upload to
folder	the folder to upload to
resource	the resource to upload
name	name of the resource (optional)

Examples

```
## Not run:
armadillo.upload_table(
  project = "gecko",
  folder = "core_all",
  table1
)

## End(Not run)
```

`armadillo.upload_table`*Uploads a table to a folder in a project*

Description

Uploads a table to a folder in a project

Usage

```
armadillo.upload_table(project, folder, table, name = NULL)
```

Arguments

<code>project</code>	the project to upload to
<code>folder</code>	the folder to upload to
<code>table</code>	the table to upload
<code>name</code>	name of the table (optional)

Examples

```
## Not run:  
armadillo.upload_table(  
  project = "gecko",  
  folder = "core_all",  
  table1  
)  
  
## End(Not run)
```

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