

Package: rDataPipeline (via r-universe)

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Title Functions to Interact with the 'FAIR Data Pipeline'

Version 0.54.3

Description R implementation of the 'FAIR Data Pipeline API'. The 'FAIR Data Pipeline' is intended to enable tracking of provenance of FAIR (findable, accessible and interoperable) data used in epidemiological modelling.

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Imports assertthat, cli, configr, dplyr, git2r, httr, jsonlite, openssl, R6, rhdf5, semver, stats, usethis, utils, yaml

Suggests units, testthat

biocViews rhdf5

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.2

URL <https://www.fairdatapipeline.org/rDataPipeline/>,
<https://github.com/FAIRDataPipeline/rDataPipeline>

BugReports <https://github.com/FAIRDataPipeline/rDataPipeline/issues>

Repository <https://fairdatapipeline.r-universe.dev>

RemoteUrl <https://github.com/fairdatapipeline/rdatapipeline>

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rDataPipeline-package *rDataPipeline*

Description

FAIR Data Pipeline API

Details

For more information see <https://www.fairdatapipeline.org/>

add_read	<i>add_read</i>
----------	-----------------

Description

Add data product to read block of user-written config file. Used in combination with `create_config()` for unit testing.

Usage

```
add_read(
  path,
  data_product,
  component,
  version,
  use_data_product,
  use_component,
  use_version,
  use_namespace
)
```

Arguments

path	config file path
data_product	data_product field
component	component field
version	(optional) version field
use_data_product	(optional) use_data_product field
use_component	(optional) use_component field
use_version	(optional) use_version field
use_namespace	(optional) use_namespace field

Examples

```
## Not run:
path <- "test_config/config.yaml"

# Write run_metadata block
create_config(path = path,
              description = "test",
              input_namespace = "test_user",
```

```

        output_namespace = "test_user")

# Write read block
add_read(path = path,
         data_product = "test/array",
         component = "level/a/s/d/f/s",
         version = "0.2.0")

## End(Not run)

```

add_write

add_write

Description

Add data product to read block of user-written config file. Used in combination with `create_config()` for unit testing.

Usage

```

add_write(
  path,
  data_product,
  description,
  version,
  file_type,
  use_data_product,
  use_component,
  use_version,
  use_namespace
)

```

Arguments

path	config file path
data_product	data_product field
description	component field
version	(optional) version field
file_type	(optional) file type field
use_data_product	(optional) use_data_product field
use_component	(optional) use_component field
use_version	(optional) use_version field
use_namespace	(optional) use_namespace field

Examples

```
## Not run:
path <- "test_config/config.yaml"

# Write run_metadata block
create_config(path = path,
              description = "test",
              input_namespace = "test_user",
              output_namespace = "test_user")

# Write read block
add_write(path = path,
          data_product = "test/array",
          description = "data product description",
          version = "0.2.0")

## End(Not run)
```

check_config	<i>check_config</i>
--------------	---------------------

Description

check_config

Usage

```
check_config(handle, data_product, what)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	data_product
what	what

check_dataproduct_exists	<i>check_dataproduct_exists</i>
--------------------------	---------------------------------

Description

If a data product already exists with the same name, version, and namespace, throw an error

Usage

```
check_dataproduct_exists(  
    write_dataproduct,  
    write_version,  
    write_namespace_id,  
    endpoint  
)
```

Arguments

```
write_dataproduct      write_dataproduct  
write_version          write_version  
write_namespace_id    write_namespace_id  
endpoint              endpoint
```

check_datetime	<i>check_datetime</i>
----------------	-----------------------

Description

check_datetime

Usage

```
check_datetime(table, this_field, query_class, this_query)
```

Arguments

```
table          a string specifying the name of the table  
this_field     a string specifying the name of the field  
query_class    a string specifying the class of the field  
this_query     a string specifying the contents of the field
```

check_exists	<i>Check if entry exists in the data registry</i>
--------------	---

Description

Check whether an entry already exists in a table (in the data registry)

Usage

```
check_exists(table, query)
```

Arguments

table	a string specifying the name of the table
query	a list containing a valid query for the table, e.g. list(field = value)

Value

Returns TRUE if the entry exists and FALSE if it doesn't

check_field	<i>check_field</i>
-------------	--------------------

Description

check_field

Usage

```
check_field(table, this_field, query_class, this_query, method, endpoint)
```

Arguments

table	a string specifying the name of the table
this_field	a string specifying the name of the field
query_class	a string specifying the class of the field
this_query	a string specifying the contents of the field
method	a string specifying the method, c("GET", "POST")
endpoint	endpoint

check_fields	<i>check_fields</i>
--------------	---------------------

Description

check_fields

Usage

check_fields(table, query, method, endpoint)

Arguments

table	a string specifying the name of the table
query	a list containing the query
method	a string specifying the method, c("GET", "POST")
endpoint	endpoint

check_handle	<i>check_handle</i>
--------------	---------------------

Description

check_handle

Usage

check_handle(handle, data_product, what, component)

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
what	element in handle – one of c("inputs", "outputs")
component	a string specifying the name of the component

check_integer	<i>check_integer</i>
---------------	----------------------

Description

check_integer

Usage

check_integer(table, this_field, query_class, this_query)

Arguments

table	a string specifying the name of the table
this_field	a string specifying the name of the field
query_class	a string specifying the class of the field
this_query	a string specifying the contents of the field

check_local_repo	<i>check_local_repo</i>
------------------	-------------------------

Description

check_local_repo

Usage

check_local_repo(path)

Arguments

path	Local repository file path
------	----------------------------

Value

boolean, if local repository is clean (TRUE, else FALSE)

check_string	<i>check_string</i>
--------------	---------------------

Description

check_string

Usage

check_string(table, this_field, this_query)

Arguments

table	a string specifying the name of the table
this_field	a string specifying the name of the field
this_query	a string specifying the contents of the field

check_table_exists	<i>Check if table exists</i>
--------------------	------------------------------

Description

Check if table exists in the data registry

Usage

check_table_exists(table)

Arguments

table	a string specifying the name of the table
-------	---

Value

Returns TRUE if a table exists, FALSE if it doesn't

check_yaml_write	<i>check_yaml_write</i>
------------------	-------------------------

Description

check_yaml_write

Usage

```
check_yaml_write(handle, data_product)
```

Arguments

handle	fdp object
data_product	a string specifying the name of the data product

clean_query	<i>Clean query</i>
-------------	--------------------

Description

Function to clean a query and return it without an api prefix

Usage

```
clean_query(data, endpoint)
```

Arguments

data	a list containing a valid query for the table, e.g. list(field = value)
endpoint	endpoint

create_config	<i>create_config</i>
---------------	----------------------

Description

Generates (user generated) config.yaml files for unit tests. Use add_read() and add_write() functions to add read and write blocks.

Usage

```
create_config(
    path,
    description,
    input_namespace,
    output_namespace,
    write_data_store = file.path(tempdir(), "datastore", ""),
    force = TRUE,
    local_repo = "local_repo"
)
```

Arguments

path	config file path
description	description field
input_namespace	input_namespace field
output_namespace	output_namespace field
write_data_store	write_data_store field
force	force
local_repo	local_repo

create_index	<i>create_index</i>
--------------	---------------------

Description

create_index

Usage

```
create_index(self)
```

Arguments

self	self
------	------

create_version_number *Create version number*

Description

Creates a version number from either *a date and a version* **or** *a date and major and patch* **or** *major minor patch*. If no parameters are supplied a default version is returned 0.1.0 This function prioritizes download date and version over all other parameters

Usage

```
create_version_number(
  download_date = NULL,
  version = NULL,
  major = 0,
  minor = "1",
  patch = 0
)
```

Arguments

download_date	(Optional) download_date This can either be a date or datetime but must include the full year <i>e.g</i> from Sys.Date() 2020-01-01 Or from Sys.time() 2020-01-01 00:00:00 BST note: also accepts / delimited dates <i>e.g</i> 01/02/2020 or 2020/01/01 and accepts date without delimiters but assumes ddmmyyyy or yyyymmdd <i>e.g.</i> 20200201
version	version number using major.minor.patch numbering <i>e.g.</i> 0.1.0 or major.patch <i>e.g.</i> 0.0
major	major number if not using version
minor	minor number if not using date
patch	patch number if not using version

Value

returns a character vector in the format of major.minor.patch *e.g.* 0.20200101.0

download_from_database

Download source file from database

Description

Download source file from database

Usage

```
download_from_database(  
    source_root,  
    source_path,  
    path,  
    filename,  
    overwrite = FALSE  
)
```

Arguments

source_root	a string specifying the source root
source_path	a string specifying the source path
path	a string specifying where the file will be saved
filename	a string specifying the filename (the name given to the saved file)
overwrite	a boolean specifying whether or not the file should be overwritten if it already exists

See Also

Other download functions: [download_from_url\(\)](#)

download_from_url	<i>Download source file from URL</i>
-------------------	--------------------------------------

Description

This function will download a file from a url

Usage

```
download_from_url(source_root, source_path, path, filename)
```

Arguments

source_root	a string specifying the source root
source_path	a string specifying the source path
path	a string specifying where the file will be saved
filename	a string specifying the filename (the name given to the saved file)

See Also

Other download functions: [download_from_database\(\)](#)

extract_id	<i>extract_id</i>
------------	-------------------

Description

extract_id

Usage

```
extract_id(url, endpoint)
```

Arguments

url	url
endpoint	endpoint

fair_init	<i>fair_init</i>
-----------	------------------

Description

fair_init

Usage

```
fair_init(name, identifier, endpoint = "http://localhost:8000/api/")
```

Arguments

name	a string specifying the full name or organisation name of the author; note that at least one of name or identifier must be specified
identifier	(optional) a string specifying the full URL identifier (<i>e.g.</i> ORCID or ROR ID) of the author
endpoint	a string specifying the registry endpoint

fair_run	<i>fair_run</i>
----------	-----------------

Description

fair_run

Usage

```
fair_run(
  path = "config.yaml",
  endpoint = "http://localhost:8000/api/",
  skip = FALSE
)
```

Arguments

path	string
endpoint	a string specifying the registry endpoint
skip	don't bother checking whether the repo is clean

fdp-class	<i>fdp-class</i>
-----------	------------------

Description

fdp-class
fdp-class

Details

Container for class fdp

Public fields

yaml a list containing the contents of the working config.yaml
 fdp_config_dir a string specifying the directory passed from fair_run
 model_config a string specifying the URL of an entry in the object table associated with the storage_location of the working config.yaml
 submission_script a string specifying the URL of an entry in the object table associated with the storage_location of the submission script
 code_repo a string specifying the URL of an entry in the object table associated with the GitHub repository

code_run a string specifying the URL of an entry in the code_run table
 inputs a data.frame containing metadata associated with code_run inputs
 outputs a data.frame containing metadata associated with code_run outputs
 issues a data.frame containing metadata associated with code_run issues

Methods

Public methods:

- `fdp$new()`
- `fdp$print()`
- `fdp$input()`
- `fdp$output()`
- `fdp$output_index()`
- `fdp$raise_issue()`
- `fdp$finalise_output_hash()`
- `fdp$finalise_output_url()`
- `fdp$clone()`

Method `new()`: Create a new fdp object

Usage:

```
fdp$new(
  yaml,
  fdp_config_dir,
  model_config,
  submission_script,
  code_repo,
  code_run
)
```

Arguments:

yaml a list containing the contents of the working config.yaml
 fdp_config_dir a string specifying the directory passed from fair run
 model_config a string specifying the URL of an entry in the object table associated with the storage_location of the working config.yaml
 submission_script a string specifying the URL of an entry in the object table associated with the storage_location of the submission script
 code_repo a string specifying the URL of an entry in the object table associated with the GitHub repository
 code_run a string specifying the URL of an entry in the code_run table

Returns: Returns a new fdp object

Method `print()`: Print method

Usage:

```
fdp$print(...)
```

Method `input()`: Record `code_run` inputs in `fdp` object

Usage:

```
fdp$input(  
  data_product,  
  use_data_product,  
  use_component,  
  use_version,  
  use_namespace,  
  path,  
  component_url  
)
```

Arguments:

`data_product` a string specifying the name of the data product, used as a reference

`use_data_product` a string specifying the name of the data product, used as input in the `code_run`

`use_component` a string specifying the name of the data product component, used as input in the `code_run`

`use_version` a string specifying the data product version, used as input in the `code_run`

`use_namespace` a string specifying the namespace in which the data product resides, used as input in the `code_run`

`path` a string specifying the location of the data product in the local data store

`component_url` a string specifying the URL of an entry in the `object_component` table

Returns: Returns an updated `fdp` object

Method `output()`: Record `code_run` outputs in `fdp` object

Usage:

```
fdp$output(  
  data_product,  
  use_data_product,  
  use_component,  
  use_version,  
  use_namespace,  
  path,  
  data_product_description,  
  component_description,  
  public  
)
```

Arguments:

`data_product` a string specifying the name of the data product, used as a reference

`use_data_product` a string specifying the name of the data product, used as output in the `code_run`

`use_component` a string specifying the name of the data product component, used as output in the `code_run`

`use_version` a string specifying the version of the data product, used as output in the `code_run`

`use_namespace` a string specifying the namespace in which the data product resides, used as output in the `code_run`

`path` a string specifying the location of the data product in the local data store

`data_product_description` a string containing a description of the data product

`component_description` a string containing a description of the data product component

public

Returns: Returns an updated fdp object

Method `output_index()`: Return index of data product recorded in fdp object so that an issue may be attached

Usage:

```
fdp$output_index(data_product, component, version, namespace)
```

Arguments:

`data_product` a string specifying the name of the data product, used as output in the `code_run`

`component` a string specifying the name of the data product component, used as output in the `code_run`

`version` a string specifying the name of the data product version, used as output in the `code_run`

`namespace` a string specifying the namespace in which the data product resides, used as input in the `code_run`

Returns: Returns an index used to identify the data product

Method `raise_issue()`: Record issue in fdp object

Usage:

```
fdp$raise_issue(
  index,
  type,
  use_data_product,
  use_component,
  use_version,
  use_namespace,
  issue,
  severity
)
```

Arguments:

`index` a numeric index, used to identify each input and output in the fdp object

`type` a string specifying the type of issue (one of "data", "config", "script", "repo")

`use_data_product` a string specifying the name of the data product, used as output in the `code_run`

`use_component` a string specifying the name of the data product component, used as output in the `code_run`

`use_version` a string specifying the name of the data product version, used as output in the `code_run`

`use_namespace` a string specifying the namespace in which the data product resides, used as input in the `code_run`

issue a string containing a free text description of the issue

severity an integer specifying the severity of the issue

Returns: Returns an updated fdp object

Method finalise_output_hash(): Record file hash and update path name in fdp object

Usage:

```
fdp$finalise_output_hash(
  use_data_product,
  use_data_product_runid,
  use_version,
  use_namespace,
  hash,
  new_path,
  data_product_url,
  delete_if_duplicate = FALSE
)
```

Arguments:

use_data_product a string specifying the name of the data product, used as output in the code_run

use_data_product_runid a string specifying the name of the data product, the same as use_data_product excluding the RUN_ID variable

use_version a string specifying the name of the data product version, used as output in the code_run

use_namespace a string specifying the namespace in which the data product resides, used as input in the code_run

hash a string specifying the hash of the file

new_path a string specifying the updated location (filename is now the hash of the file) of the data product in the local data store

data_product_url a string specifying the URL of an object associated with the data_product

delete_if_duplicate (optional) default is FALSE

Returns: Returns an updated fdp object

Method finalise_output_url(): Record data_product and component URLs in fdp object

Usage:

```
fdp$finalise_output_url(
  use_data_product,
  use_component,
  use_version,
  use_namespace,
  component_url
)
```

Arguments:

use_data_product a string specifying the name of the data product, used as output in the code_run

use_component a string specifying the name of the data product component, used as output in the code_run

use_version a string specifying the name of the data product version, used as output in the code_run

use_namespace a string specifying the namespace in which the data product resides, used as input in the code_run

component_url a string specifying the URL of an entry in the object_component table

Returns: Returns an updated fdp object

Method clone(): The objects of this class are cloneable with this method.

Usage:

fdp\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

fdp_resolve_read *fdp_resolve_read*

Description

fdp_resolve_read

Usage

fdp_resolve_read(this_read, yaml)

Arguments

this_read	this_read
yaml	user written config file

fdp_resolve_write *fdp_resolve_write*

Description

fdp_resolve_write

Usage

fdp_resolve_write(this_write, yaml)

Arguments

this_write	this_write
yaml	user written config file

finalise	<i>Finalise code run</i>
----------	--------------------------

Description

Finalise Code Run and push associated metadata to the local registry.

Usage

```
finalise(handle, delete_if_empty = FALSE, delete_if_duplicate = FALSE)
```

Arguments

handle	an object of class <code>fdp</code> , R6 containing metadata required by the Data Pipeline API
delete_if_empty	(optional) default is <code>FALSE</code> ; see Details
delete_if_duplicate	(optional) default is <code>FALSE</code> ; see Details

Details

If a Code Run does not read an input, write an output, or attach an issue, then delete the Code Run entry when `delete_if_empty` is set to `TRUE`.

If a data product has the same hash as a previous version, remove it from the registry when `delete_if_duplicate` is set to `TRUE`.

findme	<i>findme</i>
--------	---------------

Description

Returns metadata associated with the calculated hash of a target file. When multiple entries exist in the data registry all are returned.

Usage

```
findme(file, endpoint)
```

Arguments

file	file path
endpoint	endpoint

<code>find_read_match</code>	<i>Find matching read aliases in config file</i>
------------------------------	--

Description

Find read aliases in working config that match wildcard string

Usage

```
find_read_match(handle, data_product)
```

Arguments

<code>handle</code>	an object of class <code>fdp</code> , R6 containing metadata required by the Data Pipeline API
<code>data_product</code>	a string specifying the data product name

<code>find_write_match</code>	<i>Find matching write aliases in config file</i>
-------------------------------	---

Description

Find write aliases in working config that match wildcard string

Usage

```
find_write_match(handle, data_product)
```

Arguments

<code>handle</code>	an object of class <code>fdp</code> , R6 containing metadata required by the Data Pipeline API
<code>data_product</code>	a string specifying the data product name

<code>get_author_url</code>	<i>get_author_url</i>
-----------------------------	-----------------------

Description

`get_author_url`

Usage

`get_author_url(endpoint)`

Arguments

`endpoint` a string specifying the registry endpoint

<code>get_components</code>	<i>Get H5 file components</i>
-----------------------------	-------------------------------

Description

Returns the names of the items at the root of the file

Usage

`get_components(filename)`

Arguments

`filename` a string specifying a filename

Value

Returns the names of the items at the root of the file

See Also

Other get functions: [get_entry\(\)](#), [get_existing\(\)](#), [get_file_hash\(\)](#), [get_github_hash\(\)](#)

get_dataproduct	<i>get_dataproduct</i>
-----------------	------------------------

Description

get_dataproduct

Usage

```
get_dataproduct(  
    data_product,  
    version,  
    namespace,  
    endpoint = "http://localhost:8000/api/"  
)
```

Arguments

data_product	data_product
version	version
namespace	namespace
endpoint	endpoint

get_entity	<i>Get entity from url</i>
------------	----------------------------

Description

Get entity from url

Usage

```
get_entity(url)
```

Arguments

url	a string specifying the url of an entry
-----	---

get_entry	<i>Return all fields associated with a table entry in the data registry</i>
-----------	---

Description

Return all fields associated with a table entry in the data registry

Usage

```
get_entry(table, query, endpoint = "http://localhost:8000/api/")
```

Arguments

table	a string specifying the name of the table
query	a list containing a valid query for the table, e.g. list(field = value)
endpoint	a string specifying the registry endpoint

Value

Returns a list of fields present in the specified entry

See Also

Other get functions: [get_components\(\)](#), [get_existing\(\)](#), [get_file_hash\(\)](#), [get_github_hash\(\)](#)

get_existing	<i>Return all entries posted to a table in the data registry</i>
--------------	--

Description

Get entries (from the data registry) in a particular table

Usage

```
get_existing(  
  table,  
  limit_results = TRUE,  
  detail = "all",  
  endpoint = "http://localhost:8000/api/"  
)
```

Arguments

table	a string specifying the name of the table
limit_results	a boolean specifying whether or not to limit the results, default is TRUE
detail	a string specifying what level of detail to return; options are "all" for all details or "id" for just URL and IDs
endpoint	a string specifying the registry endpoint

Value

Returns a `data.frame` of entries in table, default is limited to 100 entries

See Also

Other get functions: [get_components\(\)](#), [get_entry\(\)](#), [get_file_hash\(\)](#), [get_github_hash\(\)](#)

get_fields	<i>Get fields from table</i>
------------	------------------------------

Description

Use API endpoint to produce a list of fields for a table. Requires API key.

Usage

```
get_fields(table, endpoint = "http://localhost:8000/api/")
```

Arguments

table	a string specifying the name of the table
endpoint	a string specifying the registry endpoint

Value

Returns a `data.frame` of fields and their attributes set to "none"

get_file_hash	<i>Calculate hash from file</i>
---------------	---------------------------------

Description

Returns the SHA1 hash of a given file

Usage

```
get_file_hash(filename)
```

Arguments

filename a string specifying a filename

See Also

Other get functions: [get_components\(\)](#), [get_entry\(\)](#), [get_existing\(\)](#), [get_github_hash\(\)](#)

get_github_hash	<i>Get current GitHub hash</i>
-----------------	--------------------------------

Description

Get the hash of the latest commit in the master branch of a particular repository. This function assumes git is installed and located in the System PATH.

Usage

```
get_github_hash(repo)
```

Arguments

repo a string specifying the github username/repository

See Also

Other get functions: [get_components\(\)](#), [get_entry\(\)](#), [get_existing\(\)](#), [get_file_hash\(\)](#)

get_id	<i>Get ID</i>
--------	---------------

Description

Retrieve IDs for particular entries or all entries in a table

Usage

```
get_id(table, query = list(), endpoint = "http://localhost:8000/api/")
```

Arguments

table	a string specifying the name of the table
query	a list containing a valid query for the table, e.g. list(field = value)
endpoint	a string specifying the registry endpoint

Value

Returns a string or list of strings specifying the URL or URLs of entries in a table

get_index	<i>get_index</i>
-----------	------------------

Description

get_index

Usage

```
get_index(write, data_product)
```

Arguments

write	write
data_product	data_product

get_max_version	<i>get_max_version</i>
-----------------	------------------------

Description

If entry doesn't exist in the registry, return version 0.0.0

Usage

```
get_max_version(data_product, namespace_id)
```

Arguments

data_product	data_product
namespace_id	namespace_id

get_storage_location	<i>Get storage location from url</i>
----------------------	--------------------------------------

Description

Get storage location entry

Usage

```
get_storage_location(location)
```

Arguments

location	the url of an entry in the storage_location table
----------	---

Value

Returns a list of fields associated with the specified entry

get_token	<i>get_token</i>
-----------	------------------

Description

get_token

Usage

```
get_token()
```

get_url	<i>Get URL</i>
---------	----------------

Description

Retrieve URLs for particular entries or all entries in a table

Usage

```
get_url(table, query = list(), endpoint = "http://localhost:8000/api/")
```

Arguments

table	a string specifying the name of the table
query	a list containing a valid query for the table, <i>e.g.</i> list(field = value)
endpoint	a string specifying the registry endpoint

Value

Returns a string or list of strings specifying the URL or URLs of entries in a table

increment_filename	<i>increment_filename</i>
--------------------	---------------------------

Description

Searches directory for duplicate files and increments filename.

Usage

```
increment_filename(path)
```

Arguments

path	path
------	------

initialise	<i>Initialise code run</i>
------------	----------------------------

Description

Reads in a working config file, generates new Code Run entry, and returns a handle containing various metadata.

Usage

```
initialise(config, script)
```

Arguments

config	a string specifying the location of the working config file in the data store
script	a string specifying the location of the submission script in the data store

Value

Returns an object of class `fdp`, `R6` containing metadata required by the Data Pipeline API

is_queryable	<i>Check whether fields are queryable</i>
--------------	---

Description

Check whether fields are queryable

Usage

```
is_queryable(table, query, method, endpoint)
```

Arguments

table	a string specifying the name of the table
query	a list containing the query
method	a string specifying the method, c("GET", "POST")
endpoint	endpoint

Value

Returns TRUE if the entry is queryable and FALSE if it isn't

link_read	<i>Link path to external format data</i>
-----------	--

Description

Link path to external format data

Usage

```
link_read(handle, data_product)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string representing an external object in the config.yaml file

Value

Returns a string specifying the location of the data product to be read

link_write	<i>Link path for external format data</i>
------------	---

Description

Link path for external format data

Usage

```
link_write(handle, data_product)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string representing an external object in the config.yaml file

Value

Returns a string specifying the location in which the data product should be written

new_author	<i>Post entry to author table</i>
------------	-----------------------------------

Description

Upload information to the author table in the data registry

Usage

```
new_author(name, identifier, endpoint = "http://localhost:8000/api/")
```

Arguments

name	a string specifying the full name or organisation name of the author; note that at least one of name or identifier must be specified
identifier	(optional) a string specifying the full URL identifier (<i>e.g.</i> ORCID or ROR ID) of the author
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_code_repo_release	<i>Post entry to code_repo_release table</i>
-----------------------	--

Description

Upload information to the code_repo_release table in the data registry

Usage

```
new_code_repo_release(  
  name,  
  version,  
  object_url,  
  website,  
  endpoint = "http://localhost:8000/api/"  
)
```

Arguments

name	a string specifying the name of an official release of code
version	a string specifying the version release (conforming with semantic versioning syntax)
object_url	a string specifying the URL of an object
website	(optional) a string specifying the URL of the website for this code release
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_code_run	<i>Post entry to code_run table</i>
--------------	-------------------------------------

Description

Upload information to the code_run table in the data registry

Usage

```
new_code_run(
  run_date,
  description,
  code_repo_url,
  model_config_url,
  submission_script_url,
  inputs_urls = list(),
  outputs_urls = list(),
  endpoint = "http://localhost:8000/api/"
)
```

Arguments

run_date	the date-time of the code_run <i>e.g.</i> Sys.time() or "2010-07-11 12:15:00 BST"
description	(optional) a string containing a free text description of the code_run
code_repo_url	(optional) a string specifying the URL of an object associated with the code_repo_release that was run
model_config_url	(optional) a string specifying the URL of an object associated with the working config file used for the code_run

submission_script_url	(optional) a string specifying the URL of an object associated with the submission script used for the code_run
inputs_urls	a list of object_component URLs referencing code_run inputs
outputs_urls	a list of object_component URLs referencing code_run outputs
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_data_product	<i>Post entry to data_product table</i>
------------------	---

Description

Upload information to the data_product table in the data registry

Usage

```
new_data_product(
  name,
  version,
  object_url,
  namespace_url,
  endpoint = "http://localhost:8000/api/"
)
```

Arguments

name	a string specifying the name of the data_product
version	a string specifying the version identifier of the data_product (must conform to semantic versioning syntax)
object_url	a string specifying the URL of the entry in the object table
namespace_url	a string specifying the URL of the entry in the namespace table
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_external_object *Post entry to external_object table*

Description

Upload information to the external_object table in the data registry

Usage

```
new_external_object(
  doi_or_unique_name,
  primary_not_supplement = TRUE,
  release_date,
  title,
  description,
  data_product_url,
  original_store_url,
  endpoint = "http://localhost:8000/api/"
)
```

Arguments

`doi_or_unique_name` a string specifying the DOI or name of the external_object

`primary_not_supplement` (optional) a boolean flag to indicate whether the external object is the primary source (TRUE) or not (FALSE)

`release_date` the date-time that the external_object was released *e.g.* `Sys.time()` or "2010-07-11 12:15:00 BST"

`title` a string specifying the title of the external_object

`description` (optional) a string containing a free text description of the external_object

`data_product_url` a string specifying the URL of an entry in the data_product table

`original_store_url` (optional) a string specifying the URL of a an entry in the storage_location table that references the original location of an external_object

`endpoint` a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_file_type	<i>Post entry to file_type table</i>
---------------	--------------------------------------

Description

Upload information to the file_type table in the data registry

Usage

```
new_file_type(name, extension, endpoint = "http://localhost:8000/api/")
```

Arguments

name	a string specifying the name of the file type
extension	a string specifying the filename extension
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_issue	<i>Post entry to issue table</i>
-----------	----------------------------------

Description

Upload information to the issue table in the data registry

Usage

```
new_issue(  
  severity,  
  description,  
  component_issues,  
  endpoint = "http://localhost:8000/api/"  
)
```

Arguments

severity	an integer specifying the severity of the issue
description	a string containing a free text description of the issue
component_issues	a list of object_component URLs with which the issue is associated; this can be an empty list
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_keyword	<i>Post entry to keyword table</i>
-------------	------------------------------------

Description

Upload information to the keyword table in the data registry

Usage

```
new_keyword(
  object_url,
  keyphrase,
  identifier,
  endpoint = "http://localhost:8000/api/"
)
```

Arguments

object_url	a string specifying the URL of an object
keyphrase	a string a string containing a free text key phrase
identifier	(optional) a string specifying the URL of ontology annotation to associate with this keyword
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_licence	<i>Post entry to licence table</i>
-------------	------------------------------------

Description

Upload information to the licence table in the data registry

Usage

```
new_licence(object_url, licence_info, endpoint = "http://localhost:8000/api/")
```

Arguments

object_url	a string specifying the URL of an object
licence_info	a free text string containing information about the licence
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_namespace	<i>Post entry to namespace table</i>
---------------	--------------------------------------

Description

Upload information to the namespace table in the data registry

Usage

```
new_namespace(  
  name,  
  full_name,  
  website,  
  endpoint = "http://localhost:8000/api/"  
)
```

Arguments

name	a string specifying the name of the namespace
full_name	(optional) a string specifying the full name of the namespace
website	(optional) a string specifying the website URL associated with the namespace
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

 new_object

Post entry to object table

Description

Upload information to the object table in the data registry

Usage

```
new_object(
  description,
  storage_location_url,
  authors_url,
  file_type_url,
  endpoint = "http://localhost:8000/api/"
)
```

Arguments

`description` (optional) a string containing a free text description of the object

`storage_location_url` (optional) a string specifying the URL of an entry in the `storage_location` table

`authors_url` (optional) a list of author URLs associated with this object

`file_type_url` (optional) a string specifying the URL of an entry in the `file_type` table

`endpoint` a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_object_component *Post entry to object_component table*

Description

Upload information to the object_component table in the data registry

Usage

```
new_object_component(  
    object_url,  
    name,  
    description,  
    whole_object = FALSE,  
    issues_urls,  
    endpoint = "http://localhost:8000/api/"  
)
```

Arguments

object_url	a string specifying the URL of an existing object
name	a string specifying the name of the object_component, unique in the context of object_component and its object reference
description	(optional) a string containing a free text description of the object_component
whole_object	a boolean flag specifying whether or not this object_component refers to the whole object or not - default is FALSE
issues_urls	(optional) a list of issues URLs to associate with this object
endpoint	a string specifying the registry endpoint

Note that the object_component table contains issues as an additional optional field. This is not included here. Instead use attach_issue() and associated functionality to attach issues to objects and object components.

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_quality_controlled

Post entry to quality_controlled table

Description

Upload information to the quality_controlled table in the data registry

Usage

```
new_quality_controlled(object_url, endpoint = "http://localhost:8000/api/")
```

Arguments

object_url a string specifying the URL of an object
endpoint a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_storage_location *Post entry to storage_location table*

Description

Upload information to the storage_location table in the data registry

Usage

```
new_storage_location(  
  path,  
  hash,  
  public,  
  storage_root_url,  
  endpoint = "http://localhost:8000/api/"  
)
```

Arguments

path	a string specifying the path from the storage_root URI to the item location, which when appended to storage_root URI produces a complete URL
hash	a string specifying the SHA1 hash of a file stored in storage_location
public	a boolean indicating whether the storage_location is public or not (default is TRUE)
storage_root_url	a string specifying the URL of an entry in the storage_root table
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_root\(\)](#), [new_user_author\(\)](#)

new_storage_root	<i>Post entry to storage_root table</i>
------------------	---

Description

Upload information to the storage_root table in the data registry

Usage

```
new_storage_root(root, local, endpoint = "http://localhost:8000/api/")
```

Arguments

root	a string specifying the URI of a storage_location, which when prepended to a storage_location produces a complete URI to a file
local	(optional) a boolean indicating whether the storage_root is local or not
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_user_author\(\)](#)

new_user_author	<i>Post entry to user_author table</i>
-----------------	--

Description

Upload information to the user_author table in the data registry

Usage

```
new_user_author(user_url, author_url, endpoint = "http://localhost:8000/api/")
```

Arguments

user_url	a string specifying the URL of an existing user
author_url	a string specifying the URL of an existing author
endpoint	a string specifying the registry endpoint

See Also

Other new functions: [new_author\(\)](#), [new_code_repo_release\(\)](#), [new_code_run\(\)](#), [new_data_product\(\)](#), [new_external_object\(\)](#), [new_file_type\(\)](#), [new_issue\(\)](#), [new_keyword\(\)](#), [new_licence\(\)](#), [new_namespace\(\)](#), [new_object_component\(\)](#), [new_object\(\)](#), [new_quality_controlled\(\)](#), [new_storage_location\(\)](#), [new_storage_root\(\)](#)

paper_exists	<i>Check whether paper exists</i>
--------------	-----------------------------------

Description

Check whether paper is in the data registry

Usage

```
paper_exists(doi)
```

Arguments

doi	doi
-----	-----

raise_issue	<i>raise_issue</i>
-------------	--------------------

Description

raise_issue

Usage

```
raise_issue(
  index,
  handle,
  component = NA,
  data_product,
  issue,
  severity,
  whole_object = FALSE
)
```

Arguments

index	index returned from link_*(), read_(), or write()
handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
component	a string specifying the component name
data_product	a string specifying the data product name
issue	a string specifying the issue
severity	a numeric value specifying the severity
whole_object	a boolean flag specifying whether or not to reference the whole_object

raise_issue_config	<i>Raise issue with config file</i>
--------------------	-------------------------------------

Description

Raise issue with config file

Usage

```
raise_issue_config(handle, issue, severity)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
issue	a string specifying the issue
severity	a numeric value specifying the severity

raise_issue_repo	<i>Raise issue with remote repository</i>
------------------	---

Description

Raise issue with remote repository

Usage

```
raise_issue_repo(handle, issue, severity)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
issue	a string specifying the issue
severity	a numeric value specifying the severity

raise_issue_script	<i>Raise issue with submission script</i>
--------------------	---

Description

Raise issue with submission script

Usage

```
raise_issue_script(handle, issue, severity)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
issue	a string specifying the issue
severity	a numeric value specifying the severity

random_hash	<i>random_hash</i>
-------------	--------------------

Description

Generates a random hash

Usage

random_hash()

read_array	<i>Read array component from HDF5 file</i>
------------	--

Description

Function to read array type data from hdf5 file.

Usage

read_array(handle, data_product, component)

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying a data product
component	a string specifying a data product component

Value

Returns an array with attached Dimension_i_title, Dimension_i_units, Dimension_i_values, and units attributes, if available

read_distribution	<i>Read distribution component from TOML file</i>
-------------------	---

Description

Function to read distribution type data from toml file.

Usage

```
read_distribution(handle, data_product, component)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying a data product
component	a string specifying a data product component

read_estimate	<i>Read estimate component from TOML file</i>
---------------	---

Description

Function to read point-estimate type data from toml file.

Usage

```
read_estimate(handle, data_product, component)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying a data product
component	a string specifying a data product component

read_table	<i>Read table component from HDF5 file</i>
------------	--

Description

Function to read table type data from hdf5 file.

Usage

```
read_table(handle, data_product, component)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying a data product
component	a string specifying a data product component

Value

Returns a data.frame with attached column_units attributes, if available

register_issue_dataproduct	<i>register_issue_dataproduct</i>
----------------------------	-----------------------------------

Description

register_issue_dataproduct

Usage

```
register_issue_dataproduct(handle, this_issue)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
this_issue	this_issue

register_issue_script *register_issue_script*

Description

register_issue_script

Usage

register_issue_script(handle, this_issue, type)

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
this_issue	this_issue
type	type

remove_empty_parents *remove_empty_parents*

Description

remove_empty_parents

Usage

remove_empty_parents(path, root)

Arguments

path	path
root	root

resolve_read	<i>resolve_read</i>
--------------	---------------------

Description

resolve_read

Usage

```
resolve_read(handle, data_product, component = NA)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
component	a string specifying the name of data product component

resolve_version	<i>resolve_version</i>
-----------------	------------------------

Description

resolve_version

Usage

```
resolve_version(version, data_product, namespace_id)
```

Arguments

version	version number
data_product	data_product
namespace_id	namespace_id

resolve_write	<i>resolve_data_product</i>
---------------	-----------------------------

Description

resolve_data_product

Usage

```
resolve_write(handle, data_product, file_type)
```

Arguments

handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
file_type	(optional) a string specifying the file type; when missing, file_type will be read from the config file

validate_fields	<i>Validate fields</i>
-----------------	------------------------

Description

Function to validate fields in post data

Usage

```
validate_fields(table, data, endpoint)
```

Arguments

table	table name as character
data	data as a named list
endpoint	endpoint

Value

Returns

write_array	<i>Write array component to HDF5 file</i>
-------------	---

Description

Function to populate hdf5 file with array type data.

Usage

```
write_array(
  array,
  handle,
  data_product,
  component,
  description,
  dimension_names,
  dimension_values,
  dimension_units,
  units
)
```

Arguments

array	an array containing the data
handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
component	a string specifying a location within the hdf5 file
description	a string describing the data product component
dimension_names	a list where each element is a vector containing the labels associated with a particular dimension (e.g. element 1 corresponds to dimension 1, which corresponds to row names) and the name of each element describes the contents of each dimension (e.g. age classes).
dimension_values	(optional) a list of values corresponding to each dimension (e.g. list element 2 corresponds to columns)
dimension_units	(optional) a list of units corresponding to each dimension (e.g. list element 2 corresponds to columns)
units	(optional) a string specifying the units of the data as a whole

Value

Returns a handle index associated with the just written component, which can be used to raise an issue if necessary

See Also

Other write functions: [write_distribution\(\)](#), [write_estimate\(\)](#), [write_table\(\)](#)

write_distribution	<i>Write distribution component to TOML file</i>
--------------------	--

Description

Write distribution component to TOML file

Usage

```
write_distribution(  
  distribution,  
  parameters,  
  handle,  
  data_product,  
  component,  
  description  
)
```

Arguments

distribution	a string specifying the name of the distribution
parameters	a list specifying the distribution parameters
handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
component	a string specifying a location within the toml file
description	a string describing the data product component

Value

Returns a handle index associated with the just written component, which can be used to raise an issue if necessary

See Also

Other write functions: [write_array\(\)](#), [write_estimate\(\)](#), [write_table\(\)](#)

write_estimate	<i>Write estimate component to TOML file</i>
----------------	--

Description

Function to populate toml file with point-estimate type data. If a file already exists at the specified location, an additional component will be added.

Usage

```
write_estimate(value, handle, data_product, component, description)
```

Arguments

value	an object of class numeric
handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
component	a string specifying a location within the toml file
description	a string describing the data product component

Value

Returns a handle index associated with the just written component, which can be used to raise an issue if necessary

See Also

Other write functions: [write_array\(\)](#), [write_distribution\(\)](#), [write_table\(\)](#)

write_table	<i>Write table component to HDF5 file</i>
-------------	---

Description

Function to populate hdf5 file with array type data.

Usage

```
write_table(  
  df,  
  handle,  
  data_product,  
  component,  
  description,  
  row_names,  
  column_units  
)
```

Arguments

df	an dataframe containing the data
handle	an object of class fdp, R6 containing metadata required by the Data Pipeline API
data_product	a string specifying the name of the data product
component	a string specifying a location within the hdf5 file,
description	a string describing the data product component
row_names	(optional) a vector of rownames
column_units	(optional) a vector comprising column units

Value

Returns a handle index associated with the just written component, which can be used to raise an issue if necessary

See Also

Other write functions: [write_array\(\)](#), [write_distribution\(\)](#), [write_estimate\(\)](#)

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