Package: dkanr (via r-universe)

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Title Client for the 'DKAN' API

Version 0.1.3

Description Provides functions to facilitate access to the 'DKAN' API
(<https://dkan.readthedocs.io/en/latest/apis/index.html>),
including the 'DKAN' REST API (metadata), and the 'DKAN'
datastore API (data). Includes functions to list, create,
retrieve, update, and delete datasets and resources nodes. It
also includes functions to search and retrieve data from the
'DKAN' datastore.

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Depends R (>= 3.2)

Imports assertthat (>= 0.2.0), dplyr (>= 0.7.4), httr (>= 1.3.1),
jsonlite (>= 1.5), purrr (>= 0.2.4), stringr (>= 1.2.0), tibble
(>= 1.4.2)

Suggests covr (>= 3.0.1), knitr (>= 1.19), rmarkdown (>= 1.8),
testthat (>= 2.0.0), httptest

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

NeedsCompilation no

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Repository CRAN

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Contents

attach_file_to_node   *attach_file_to_node*

Description

Attach a file to an existing resource node

Usage

```
attach_file_to_node(nid, url = get_url(), credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), file_path,
  attach = 1)
```

Arguments

nid	character: DKAN resource node ID
url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
file_path	character: path to file on local machine
attach	numeric: Setting the attach parameter to 0 ensures that the file will replace any existing file on the resource. Setting it to 1 will result in a rejected request if the resource already has an attached file (but it will work if the resource file upload field is empty).

---

create_node *create_node*

Description

Create a DKAN node

Usage

```
create_node(url = get_url(), body, credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), as = "json", ...)
```

Arguments

url	character: The DKAN site URL
body	json: A JSON object to be passed to the body of the request
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
as	character: Output format. Options are: 'json' or 'list'
...	Other optional parameters passed to the underlying GET request

Value

dkan_node object

Examples

```
## Not run:
create_node(url = "http://demo.getdkan.com", body = {"title": "TEST DATASET"})

## End(Not run)
```

---

delete_node *delete_node*

Description

Delete an existing DKAN node

Usage

```
delete_node(nid, url = get_url(), credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), as = "json", ...)
```

Arguments

nid	character: DKAN node ID
url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
as	character: Output format. Options are: 'json' or 'list'
...	Other optional parameters passed to the underlying GET request

Value

character or dkan_node object

Examples

```
## Not run:
delete_node(nid = 1, url = "http://demo.getdkan.com")

## End(Not run)
```

---

dkanr_logout	*dkanr_logout*

Description

Close connection with DKAN API initiated by dkanr_setup()

Usage

```
dkanr_logout(url = get_url(), credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()))
```

Arguments

url	Character: API root URL. Default value is the url returned by get_url()
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()

Value

json

---

dkanr_settings *Get or set dkanr DKAN settings*

Description

Get or set dkanr DKAN settings

Usage

```
dkanr_settings()

get_url()

get_cookie()

get_token()
```

Value

dkanr_settings prints your base url, API cookie and token (if used) dkanr_setup sets your production settings

See Also

[dkanr_setup](), [get_url]()

Examples

```
dkanr_settings()
```

---

dkanr_setup *Configure default DKAN settings*

Description

Configure default DKAN settings

Usage

```
dkanr_setup(url = "http://demo.getdkan.com", username = NULL,
  password = NULL)
```

Arguments

url	A DKAN URL (optional), default: "http://demo.getdkan.com"
username	Username (optional, character)
password	Password (optional, character)

Details

dkanr_setup sets DKAN connection details. dkanr functions default to use the default URL and
API key unless specified explicitly.

Examples

```
## Not run:
DKAN users without admin/editor privileges could run:
dkanr_setup(url = "http://demo.getdkan.com")

Privileged DKAN editor/admin users can run:
dkanr_setup(url = "http://demo.getdkan.com", username = "your-username", password = "your-password")

Not specifying the default DKAN URL will reset the DKAN URL to its default
"http://demo.getdkan.com":
dkanr_setup()

## End(Not run)
```

---

ds_is_available   *ds_is_available*

Description

Returns TRUE is a data file has been imported in the DKAN datastore, returns FALSE otherwise

Usage

```
ds_is_available(metadata)
```

Arguments

metadata   list: Resource level metadata

Value

logical vector

Examples

```
## Not run:
metadata <- retrieve_node(nid ='140366', as = 'list')
ds_is_available(metadata)

## End(Not run)
```

Description

Search csv resource file stored in the datastore.

Usage

```
ds_search(resource_id, fields = NULL, filters = NULL, limit = 100,
  offset = 0, sort = NULL, q = NULL, url = get_url(),
  credentials = list(cookie = dkanr::get_cookie(), token =
  dkanr::get_token()))
```

Arguments

resource_id	character: DKAN resource ID
fields	character vector: fields to be returned by the request
filters	named character vector: filters to be applied when retrieving records
limit	numeric: Number of records to retrieve
offset	numeric: Number of results to skip in the beginning
sort	named character vector: field to be sorted by
q	character: full text query filter
url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()

Value

data.frame or character

Examples

```
## Not run:
ds_search(resource_id = '10c578a6-63c4-40bd-a55d-0c27bf276283',
          fields = c('Country','City','Region','Population'),
          filters = list('Country'=c('co','my'), 'Region'=c('04','09','22')),
          limit = 20,
          offset = 0,
          sort = c('Country'='asc'),
          q = "puertica",
          url = get_url(),
          as = 'df')

## End(Not run)
```

---

ds_search_all *ds_search_all*

Description

Search csv resource file stored in the datastore.

Usage

```
ds_search_all(resource_id, fields = NULL, filters = NULL,
  num_records = NULL, offset = 0, sort = NULL, q = NULL,
  url = get_url(), credentials = list(cookie = dkanr::get_cookie(),
  token = dkanr::get_token()), as = "df")
```

Arguments

resource_id	character: DKAN resource ID
fields	character vector: fields to be returned by the request
filters	named character vector: filters to be applied when retrieving records
num_records	numeric: Number of records to retrieve
offset	numeric: Number of results to skip in the beginning
sort	named character vector: field to be sorted by and the order of sorting
q	character: full text query filter
url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
as	character: output format - json, list or data frame

Value

character, list, or data frame

Examples

```
## Not run:
ds_search_all(resource_id = '10c578a6-63c4-40bd-a55d-0c27bf276283',
          fields = c('Country','City','Region','Population'),
          filters = list('Country'=c('co','my'), 'Region'=c('04','09','22')),
          num_records = 20,
          offset = 0,
          limit = 100,
          sort = c('Country'='asc'),
          q = "puertica",
          url = get_url(),
          as = 'df')

## End(Not run)
```

---

err_handler *err_handler*

Description

Helper function to capture error messages returned by the API

Usage

```
err_handler(x)
```

Arguments

x   response: The API response

---

filters_to_text_query *filters_to_text_query*

Description

Helper function to build API query string

Usage

```
filters_to_text_query(filters, text)
```

Arguments

filters   named vector: filters to be applied

text   vector: The key word used for filtering

---

get_resource_nids   *get_resource_nids*

Description

Returns all the resource node ids attached to a specific node id

Usage

```
get_resource_nids(metadata)
```

Arguments

metadata   list: Dataset level metadata

Value

character vector

Examples

```
## Not run:
metadata <- retrieve_node(nid ='140177', as = 'list')
get_resource_nids(metadata)

## End(Not run)
```

---

get_resource_url   *get_resource_url*

Description

Returns the download link or external page URL for a specific resource

Usage

```
get_resource_url(metadata)
```

Arguments

metadata   list: Resource level metadata

Value

character vector

Examples

```
## Not run:
metadata <- retrieve_node(nid ='140366', as = 'list')
get_resource_url(metadata)

## End(Not run)
```

---

is.dkan_list   *dkan_list class helpers*

Description

dkan_list class helpers

Usage

```
is.dkan_list(x)
```

Arguments

x   Variety of things, character, list, or dkan_list class object as.dkan_list <- function(x, ...) UseMethod("as.dkan_list")

                    #' @export as.dkan_list.character <- function(x, ...) retrieve_node(x, ...)

                    #' @export as.dkan_list.dkan_list <- function(x, ...) x

                    #' @export as.dkan_list.list <- function(x, ...) structure(x, class = "dkan_list")

---

is.dkan_node   *dkan_node class helpers*

Description

dkan_node class helpers

Usage

```
is.dkan_node(x)
```

Arguments

x   Variety of things, character, list, or dkan_node class object # create item class from only an item ID as.dkan_node("22")

                    # gives back itself (x <- as.dkan_node("22")) as.dkan_node(x) as.dkan_node <- function(x, ...) UseMethod("as.dkan_node")

                    #' @export as.dkan_node.character <- function(x, ...) retrieve_node(x, ...)

                    #' @export as.dkan_node.dkan_node <- function(x, ...) x

                    #' @export as.dkan_node.list <- function(x, ...) structure(x, class = "dkan_node")

---

list_nodes   *list_nodes*

Description

Returns list of nodes

Usage

```
list_nodes(url = get_url(), credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), fields = NULL,
  filters = NULL, pagesize = NULL, page = NULL, as = "json", ...)
```

Arguments

url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
fields	character vector: fields to be returned by the request
filters	named character vector: filters to be applied to the search
pagesize	numeric: Number of records to get per page (max = 20).
page	numeric: The zero-based index of the page to get, defaults to 0.
as	character: Output format. Options are: 'json', 'list', or 'df' (data frame)
...	Other optional parameters to be passed to the underlying GET request

Value

json, dkan_node (list), or data frame

Examples

```
## Not run:
list_nodes(url = "http://demo.getdkan.com")
list_nodes(url = "http://demo.getdkan.com",
               fields = c('nid', 'type', 'uri'),
               filters = c(type='resource'))

## End(Not run)
```

list_nodes_all *list_nodes_all*

Description

Returns list of nodes

Usage

```
list_nodes_all(url = get_url(), credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), fields = NULL,
  filters = NULL, as = "df", ...)
```

Arguments

url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
fields	character vector: fields to be returned by the request
filters	named character vector: filters to be applied to the search
as	character: Output format. Options are: 'json', 'list' or 'df' (data frame)
...	Other optional parameters to be passed to the underlying GET request

Value

json, dkan_node (list), or data frame

Examples

```
## Not run:
list_nodes_all(url = "http://demo.getdkan.com",
fields = c('nid', 'type'),
filters = c(type = 'resource'))

## End(Not run)
```

retrieve_node   *retrieve_node*

Description

Returns metadata associated with an existing DKAN Node ID.

Usage

```
retrieve_node(nid, url = get_url(), credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), as = "json", ...)
```

Arguments

nid	character: DKAN node ID
url	character: The DKAN site URL
credentials	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
as	character: Output format. Options are: 'json' or 'list'
...	Other optional parameters passed to the underlying GET request

Value

dkan_node object

Examples

```
## Not run:
retrieve_node(nid = 1, url = "http://demo.getdkan.com")

## End(Not run)
```

update_node   *update_node*

Description

Update an existing DKAN node

Usage

```
update_node(nid, url = get_url(), body, credentials = list(cookie =
  dkanr::get_cookie(), token = dkanr::get_token()), as = "json", ...)
```

Arguments

`nid`	character: DKAN node ID
`url`	character: The DKAN site URL
`body`	json: A JSON object to be passed to the body of the request
`credentials`	Optional list parameter. Default values are Cookie and Token generated by dkan_setup()
`as`	character: Output format. Options are: 'json' or 'list'
`...`	Other optional parameters passed to the underlying GET request

Value

dkan_node object

Examples

```
## Not run:
update_node(nid = 1, url = "http://demo.getdkan.com")

## End(Not run)
```

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