Package 'kntnr'

October 13, 2022

Type Package
Title R Client for 'kintone' API
Version 0.4.4
Description Retrieve data from 'kintone' (<https: www.kintone.com=""></https:>) via its API. 'kintone' is an enterprise application platform.
License MIT + file LICENSE
URL https://yutannihilation.github.io/kntnr/
BugReports https://github.com/yutannihilation/kntnr/issues
Imports base64enc, dplyr (>= 0.7.0), httr, jsonlite, lubridate, methods, purrr (>= 0.2.3), rlang, rstudioapi, stringr, tibble, tidyr
Suggests testthat
LazyData TRUE
Encoding UTF-8
RoxygenNote 7.1.0
NeedsCompilation no
Author Hiroaki Yutani [aut, cre] (https://orcid.org/0000-0002-3385-7233)
Maintainer Hiroaki Yutani <yutani.ini@gmail.com></yutani.ini@gmail.com>
Repository CRAN
Date/Publication 2020-04-08 13:10:02 UTC
R topics documented:
kntnr 2 kntn_auth 2 kntn_file 3 kntn_record 4 kntn_unnest 6
Index 7

2 kntn_auth

kntnr

R Client for 'kintone' API

Description

Retrieve data from kintone.

kntn_auth

Authorization Header for 'kintone'

Description

kntn_get_authorization_header() constructs a header for authorization using add_headers. kntn_set_auth() interactivery asks for the type of authentication and the credential and store them as environmental variables KNTN_URL, KNTN_AUTH_TYPE and KNTN_AUTH. If you want to avoid interaction, please manually set these. kntn_unset_auth() unsets these environmental variables.

Usage

```
kntn_get_authorization_header()
kntn_set_auth(auth_type = c("password", "token"), overwrite = FALSE)
kntn_unset_auth()
```

Arguments

auth_type Type of Authentication. password uses username and password. token uses

per-app token.

overwrite If TRUE, overwrite the existing environmental variables.

See Also

https://developer.kintone.io/hc/en-us/articles/212495188/#userauthentication

Examples

```
## NOT run:
# set KNTN_URL, KNTN_AUTH and KNTN_AUTH_TYPE interactively.
# By default, auth_type is password.
kntn_set_auth()

Sys.getenv(c("KNTN_URL", "KNTN_AUTH", "KNTN_AUTH_TYPE"))
# This will return `X-Cybozu-Authorization` header.
kntn_get_authorization_header()
```

kntn_file 3

```
# Clear environmental variables before trying to use another set of authorization info.
kntn_unset_auth()
kntn_set_auth(auth_type = "token")

# This will return `X-Cybozu-API-Token` header.
kntn_get_authorization_header()

# To avoid interaction, set these environmental variables manually.
Sys.setenv("KNTN_URL" = "https://example.cybozu.com/")
Sys.setenv("KNTN_AUTH" = "abcdefg")
Sys.setenv("KNTN_AUTH_TYPE" = "token")

## End(Not run)
```

kntn_file

'kintone' File API

Description

Get a file from kintone API and parse it with content. If you want to parse it by yourself, specify as = "raw" or as = "text".

Usage

```
kntn_file(fileKey, verbose = FALSE, as = NULL, type = NULL, encoding = NULL)
```

Arguments

fileKey File key.

verbose If TRUE, output logs verbosely.
as as parameter passed to content.
type type parameter passed to content.
encoding encoding parameter passed to content.

See Also

https://developer.kintone.io/hc/en-us/articles/212494468/

Examples

```
## Not run:
kntn_set_auth()
app <- 10

# get a single record with a file attachment field
d <- kntn_record(app, id = 1)</pre>
```

kntn_record

```
f <- kntn_file(fileKey = x$Attachment[[1]]$fileKey[1])
## End(Not run)</pre>
```

kntn_record

'kintone' Record API

Description

kntn_record() gets a single record from the specified kintone application. kntn_records() retrieves multiple records at once. If the number of records is more than records_per_request (the default is 100), kntn_records() automatically splits the request into smaller subrequests.

Usage

```
kntn_record(app, id, as = c("data.frame", "list", "text"), verbose = FALSE)
kntn_records(
    app,
    fields = NULL,
    query = "",
    max_records = 1000L,
    offset = 0L,
    records_per_request = 100L,
    as = c("data.frame", "list", "text"),
    verbose = FALSE
)
```

Arguments

арр	App ID.
id	Record ID.
as	Desired type of output: data.frame, list or text (data.frame means tbl_df).
verbose	If TRUE, output logs verbosely.
fields	Names of fields.
query	Query (e.g. "updated_time > \"2012-02-03T09:00:00+0900\" and updated_time < \"2012-02-03T10:00:00+0900\"").
max_records	Max number of records to get.
offset	Offset of records.
records_per_request	
	Number of records per request (max: 100).

kntn_record 5

Details

A field will be converted to the correspondent object by the type:

- RECORD_NUMBER: character
- __ID__: integer
- __REVISION__: integer
- CREATOR: character (code)
- CREATED_TIME: POSIXct
- MODIFIER: character (code)
- UPDATED_TIME: POSIXct
- SINGLE LINE TEXT: character
- NUMBER: numeric
- CALC: character
- MULTI_LINE_TEXT: character
- RICH_TEXT: character
- CHECK_BOX: nested character
- RADIO_BUTTON: character
- DROP_DOWN: character
- MULTI_SELECT: nested character
- FILE: nested tbl_df
- LINK: character
- DATE: Date
- TIME: character (R has no correspondent class for this)
- DATETIME: POSIXct
- USER_SELECT: nested character (code)
- ORGANIZATION_SELECT: nested character (code)
- GROUP_SELECT: nested character (code)
- CATEGORY: nested character
- STATUS: character
- STATUS_ASSIGNEE: character
- SUBTABLE: nested tbl

Some types will be converted to nested objects. You can unnest these fields by kntn_unnest.

See Also

https://developer.kintone.io/hc/en-us/articles/213149287/

6 kntn_unnest

Examples

```
## Not run:
kntn_set_auth()
app <- 10
# get a single record
d <- kntn_record(app, id = 1)</pre>
# get records up to 1000 (default)
d <- kntn_records(app)</pre>
# get records up to 5000 records at the latency of 500 records/request.
d <- kntn_records(app, max_records = 5000, records_per_request = 500L)</pre>
# get records as list
d <- kntn_records(app, as = "list")</pre>
# get records matched with the specified query and fields.
# See https://developer.kintone.io/hc/en-us/articles/213149287/ for the query syntax
d <- kntn_records(app, fields = c("timestamp", "value"),</pre>
                   query = "updated_time > \"2016-10-03T09:00:00+0900\"")
# Some types like SUBTABLE are converted as nested data.frame.
# You can unnest them by using kntn_unnest.
kntn_unnest(d)
## End(Not run)
```

kntn_unnest

Unnest 'kintone' Records

Description

The data retrieved by kntn_records may contain nested data.frames. kntn_unnest() unnests them by using unnest. Note that this function is very experimental and may not work well for all data.

Usage

```
kntn_unnest(records)
```

Arguments

records

Data.frame retrieved by kntn_records()

Index