Package 'piwikproR'

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Type Package
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Description Run Queries against the API of 'Piwik Pro' https://developers.piwik.pro/en/latest/custom_reports/http_api/http_api.html . The result is a tibble.
<pre>URL https://piwikpror.rstats-tips.net</pre>
BugReports https://github.com/dfv-ms/piwikproR/issues
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R topics documented:
apply_types build_filter build_query get_apps_list get_app detail

apply_types

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apply_types

Convert column-type according to column_name

Description

Convert column-type according to column_name

Usage

```
apply_types(data, timestamp_to_date = TRUE)
```

Arguments

boolean convert timestamp to date

Value

tibble

build_filter 3

build_filter

Build filter from tribble

Description

Build filter from tribble

Usage

```
build_filter(filters, global_operator = "and")
```

Arguments

filters

tribble with columns

- column
- · operator
- value

Possible values for operator:

- (not_)contains
- (not_)icontains
- start_with
- ends_with
- (not_)matches
- eq
- neq
- (not_)empty

global_operator

"and" or "or"

Value

filter json encoded to feed to build_query

Examples

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build_query

Build the query

Description

Build the query

Usage

```
build_query(
  date_from,
  date_to,
  website_id,
  columns,
  filters = NULL,
  metric_filters = NULL,
  offset = 0,
  max_lines = 0
)
```

Arguments

```
date_from Start date of query

date_to End date of query

website_id website_id from piwik

columns tibble containing columns and transformations (metrics and dimensions)

filters list containing filter, best built by build_filter

metric_filters list containing filter, best built by build_filter

offset offset

max_lines limit
```

Value

query as list

get_apps_list 5

Examples

get_apps_list

get_apps_list fetch all apps

Description

```
get_apps_list fetch all apps
```

Usage

```
get_apps_list(token)
```

Arguments

token

login token generated by get_login_token

Value

data.frame

get_app_detail

get_app_detail fetching details about an app

Description

```
get_app_detail fetching details about an app
```

Usage

```
get_app_detail(token, app)
```

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Arguments

token login token generated by get_login_token

app app id, see get_apps_list

Value

data.frame with details about the app

get_column_type

Convert column-type according to column_name

Description

Convert column-type according to column_name

Usage

```
get_column_type(column_name, timestamp_to_date = TRUE)
```

Arguments

```
column_name string
timestamp_to_date
```

boolean convert timestamp to date

Value

string suggested type of column

get_generic_list

get_generic_list fetches all rows of a given api

Description

```
get_generic_list fetches all rows of a given api
```

Usage

```
get_generic_list(token, offset, api_endpoint, columns, datetime_columns)
```

get_login_token 7

Arguments

token login token generated by get_login_token

offset defailt 0, integer, where to start fetching usergroups

api_endpoint string with api endpoint

columns vector of strings containing columnnames

datetime_columns

vector of strings containing columnnames which are converted to datetime

Value

data.frame

get_login_token

Fetch login token

Description

Fetch login token

Usage

```
get_login_token(credentials)
```

Arguments

credentials List with fields client_id, client_secret and url

Value

List with login_token

```
{\tt get\_metasites\_list} \qquad {\tt get\_metasites\_list}
```

Description

```
get_metasites_list
```

Usage

```
get_metasites_list(token)
```

Arguments

token login token generated by get_login_token

Value

data.frame

Description

```
get_permissions_for_app
```

Usage

```
get_permissions_for_app(token, app)
```

Arguments

token login token generated by get_login_token

app id, see get_apps_list

Value

data.frame

```
{\it get\_permissions\_for\_metasite} \\ {\it get\_permissions\_for\_metasite}
```

Description

```
get_permissions_for_metasite
```

Usage

```
get_permissions_for_metasite(token, metasite)
```

Arguments

token login token generated by get_login_token

metasite app id, see get_metasites_list

Value

data.frame

get_test_credentials 9

```
get_test_credentials get_test_credentials getting credentials for testing
```

Description

Fills credentials out of ENV into a list

Usage

```
get_test_credentials()
```

Value

list

```
get_usergroups_list get_usergroups_list fetch all usergroups
```

Description

```
get_usergroups_list fetch all usergroups
```

Usage

```
get_usergroups_list(token)
```

Arguments

token

login token generated by get_login_token

Value

data.frame

10 get_users_list

```
get_usergroup_members get_usergroup_members
```

Description

```
get\_usergroup\_members
```

Usage

```
get_usergroup_members(token, usergroup_id)
```

Arguments

token login token generated by get_login_token usergroup_id usergroup (see get_usergroups_list)

Value

data.frame

Description

```
get_users_list fetch all users
```

Usage

```
get_users_list(token)
```

Arguments

token login token generated by get_login_token

Value

data.frame

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 $is_column_a_metric \qquad is_column_a_metric \qquad Checks \qquad if \qquad column_name \qquad indicates \qquad numeric \qquad values \qquad Uses \\ https://developers.piwik.pro/en/latest/custom_reports/columns.html$

Description

is_column_a_metric Checks if column_name indicates numeric values Uses https://developers.piwik.pro/en/latest/custom_re

Usage

```
is_column_a_metric(column_name)
```

Arguments

column_name string

Value

boolean

MAX_LINES_PER_REQUEST_ANALYTICS_API

Maximum number of lines requested in Analytics-API

Description

Maximum number of lines requested in Analytics-API

Usage

```
MAX_LINES_PER_REQUEST_ANALYTICS_API()
```

Value

int

send_query

```
MAX_LINES_PER_REQUEST_USERS_API
```

Maximum number of lines requested in Users-API

Description

Maximum number of lines requested in Users-API

Usage

```
MAX_LINES_PER_REQUEST_USERS_API()
```

Value

int

release_questions

Ask package specific question during release-process

Description

Ask package specific question during release-process

Usage

```
release_questions()
```

Value

vector of strings

send_query

Send the query and receive the result

Description

Send the query and receive the result

send_query_single 13

Usage

```
send_query(
  query,
  token,
  use_csv = TRUE,
  fetch_by_day = FALSE,
  api = "query",
  caching = FALSE,
  caching_dir = "cache",
  convert_types = TRUE
)
```

Arguments

query list generated by build_query

token login token generated by get_login_token

use_csv logical to choose whether to fetch data via extra csv-request

fetch_by_day logical fetch data day by day

api API endpoint ("query", "sessions", "events")

caching logical Set TRUE to enable caching

caching_dir character Set directory for saving caching data, default cache

convert_types logical guess type of columns and set them

Value

result as tibble

send_query_single Send the query and receive the result

Description

Send the query and receive the result

Usage

```
send_query_single(query, token, use_csv, api, caching, caching_dir)
```

Arguments

query list generated by build_query()

token login token

use_csv logical to choose whether to fetch data via extra csv-request

api API endpoint (query, sessions, events) caching logical Set TRUE to enable caching

caching_dir character Set directory for saving caching data

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Value

result as list with values data and meta

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