Package 'qbr'

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Title Access the 'Quickbase' JSON API
Version 1.2.0
Description Programmatically access the 'Quickbase' JSON API https://developer.quickbase.com . You supply parameters for an API call, 'qbr' delivers an http request to the API endpoint and returns its response. Outputs follow 'tidyverse' philosophy.
<pre>URL https://github.com/BHII-KSC/qbr</pre>
BugReports https://github.com/BHII-KSC/qbr/issues
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clone_token

Clone a user token

Description

Make a copy of the supplied token and returns its value.

Usage

```
clone_token(
   subdomain,
   auth,
   agent = NULL,
   clone_name = NULL,
   clone_desc = NULL
)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
agent	Optional. Character vector with one element. Describes user/agent making API call.
clone_name	Optional. Character vector with one element. Name the token clone.
clone_desc	Optional. Character vector with one element. Provide a description for the token clone.

Value

A character vector with one element containing the token clone.

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References

Quickbase API documentation

Examples

copy_app

Copy an app

Description

Copy an app. Provides options to copy data and users.

Usage

```
copy_app(
   subdomain,
   auth,
   app_id,
   app_name,
   app_desc = NULL,
   agent = NULL,
   users_and_roles = FALSE,
   keep_data = FALSE,
   exclude_files = TRUE,
   assign_user_token = TRUE
)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
app_name	Character vector with one element. Name the app's copy.
app_desc	Optional. Character vector with one element. Describe the app's copy.

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agent Optional. Character vector with one element. Describes user/agent making API

call.

users_and_roles

Logical. If true, users will be copied along with their assigned roles. If false,

users and roles will be copied but roles will not be assigned.

keep_data Logical. Whether to copy the app's data along with the schema.

exclude_files Logical. If keep_data is true, whether to copy the file attachments as well. If

keep_data is false, this parameter is ignored.

assign_user_token

Logical. Whether to add the user token used to make this request to the new app.

Value

A list.

Examples

deactivate_token

Deactivate a user token

Description

Make an active user token inactive.

Usage

```
deactivate_token(subdomain, auth, agent = NULL)
```

Arguments

subdomain Character vector with one element. Found at the beginning of the Quickbase

URL. Realm specific.

auth Character vector with one element. The Quickbase authentication scheme you

are using to authenticate the request (e.g., user token).

agent Optional. Character vector with one element. Describes user/agent making API

call.

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Value

A message confirming deactivation was successful.

Examples

delete_app

Delete an app

Description

Delete an entire app, including all of the tables and data.

Usage

```
delete_app(subdomain, auth, app_id, app_name, agent = NULL)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
app_name	Character vector with one element. The name of the app to be delete. Confirms you want to delete the app.
agent	Optional. Character vector with one element. Describes user/agent making API call.

Value

A list.

get_app

delete_token	Delete a user token

Description

Permanently delete an active user token.

Usage

```
delete_token(subdomain, auth, agent = NULL)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
agent	Optional. Character vector with one element. Describes user/agent making API call.

Value

A message confirming deactivation was successful.

Examples

get_app Get an app

Description

Get metadata for an app.

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Usage

```
get_app(
   subdomain,
   auth,
   app_id,
   agent = NULL,
   include_sec = T,
   include_vars = T
)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
agent	Optional. Character vector with one element. Describes user/agent making API call.
include_sec	Logical. Includes security properties if true.
include_vars	Logical. Includes app variables if true.

Value

A tibble.

Examples

get_app_events

Get app events

Description

Get a tibble of events that can be triggered based on data or user actions in this application, includes: Email notification, Reminders, Subscriptions, QB Actions, Webhooks, record change triggered Automations (does not include scheduled).

get_fields

Usage

```
get_app_events(subdomain, auth, app_id, agent = NULL)
```

Arguments

Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.

auth Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).

app_id Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/

agent Optional. Character vector with one element. Describes user/agent making API call.

Value

A tibble.

Examples

get_fields

Get all fields in a table

Description

Get metadata for all fields in a table.

Usage

```
get_fields(
   subdomain,
   auth,
   table_id,
   agent = NULL,
   include_props = T,
   include_perms = F
)
```

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Arguments

Subdomain Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.

auth Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).

table_id Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?

agent Optional. Character vector with one element. Describes user/agent making API call.

include_props Logical. Includes field properties if true.

Logical. Includes field permissions if true.

Value

A tibble.

Examples

get_report

Get a report

Description

Get metadata about a report.

Usage

```
get_report(subdomain, auth, table_id, report_id, agent = NULL)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
report_id	Character vector with one element. Found in the 'Reports & Charts' page in Quickbase and in the report URL.
agent	Optional. Character vector with one element. Describes user/agent making API call.

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Value

A named list.

Examples

get_reports

Get all reports for a table

Description

get_reports retrieves metadata for each report in a table.

Usage

```
get_reports(subdomain, auth, table_id, agent = NULL)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
agent	Optional. Character vector with one element. Describes user/agent making API call.

Value

A tibble.

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get_tables	Get all tables		
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Description

Get metadata for all tables in an app.

Usage

```
get_tables(subdomain, auth, app_id, agent = NULL)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
agent	Optional. Character vector with one element. Describes user/agent making API call.

Value

A tibble.

Examples

get_users Get users

Description

Get all users in an account. Provides options to limit values to a set of users and/or apps.

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Usage

```
get_users(
   subdomain,
   auth,
   agent = NULL,
   account_id = NULL,
   user_emails = NULL,
   app_ids = NULL
)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
agent	Optional. Character vector with one element. Describes user/agent making API call.
account_id	Optional. Positive integer. The account ID being used to get users. If no value is specified, the first account associated with the requesting user token is chosen.
user_emails	Optional. Character vector. Limit returned users to those specified in this list.
app_ids	Optional. Character vector. Limit returned users to those assigned to these app ID's. The provided app ID's should belong to the same account.

Value

A tibble.

Examples

qbr

qbr: A package for interacting with the 'Quickbase' JSON API

Description

The qbr package is currently focused on extracting data from 'Quickbase' via its JSON API.

qbr functions

* qb_run Runs a 'Quickbase' report and returns its data as a tibble.

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Run a Quickbase report

Description

Run a report and get its data.

Usage

```
qb_run(
    subdomain,
    token,
    table_id,
    report_id,
    agent = NULL,
    skip = 0,
    top = 0,
    type_suffix = FALSE,
    paginate = TRUE
)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
token	Character vector with one element. Created in 'My Preferences' under 'Manage user tokens' link.
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
report_id	Character vector with one element. Found in the 'Reports & Charts' page in Quickbase and in the report URL.
agent	Optional. Character vector with one element. Describes user/agent making API call.
skip	Optional. Integer. The number of rows to skip from the top of a record set.
top	Optional. Integer. The limit on the number of records to pull starting at the top of a record set.
type_suffix	Optional. Logical. Set TRUE to append each field label with its Quickbase data type.
paginate	Optional. Logical. Set TRUE to recursively call the API until all report pages are collected

Value

A tibble.

run_report

References

Quickbase API documentation

Examples

run_report

Run a report

Description

Run a report and get its data.

Usage

```
run_report(
   subdomain,
   auth,
   table_id,
   report_id,
   agent = NULL,
   skip = 0,
   top = 0,
   type_suffix = FALSE,
   paginate = TRUE
)
```

Arguments

subdomain

Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.

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auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
table_id	Character vector with one element. Found in the URL of a Quickbase table between /db/ and ?
report_id	Character vector with one element. Found in the 'Reports & Charts' page in Quickbase and in the report URL.
agent	Optional. Character vector with one element. Describes user/agent making API call.
skip	Optional. Integer. The number of rows to skip from the top of a record set.
top	Optional. Integer. The limit on the number of records to pull starting at the top of a record set.
type_suffix	Optional. Logical. Set TRUE to append each field label with its Quickbase data type.
paginate	Optional. Logical. Set TRUE to recursively call the API until all report pages are collected.

Value

A tibble.

References

Quickbase API documentation

```
## Not run:

# Get all data in a report
my_tibble <- run_report(subdomain = "abc",
    auth = keyring::key_get("qb_example"),
    table_id = "bn9d8iesz",
    report_id = "1")

# Get rows 3 to 6 from a report
my_tibble <- run_report(subdomain = "abc.quickbase.com",
    auth = keyring::key_get("qb_example"),
    table_id = "bn9d8iesz",
    report_id = "1",
    skip = 2,
    top = 3)

## End(Not run)</pre>
```

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summarize_app	Summarize an app

Description

Get metadata for an app, its tables, and its fields.

Usage

```
summarize_app(subdomain, auth, app_id, agent = NULL)
```

Arguments

subdomain	Character vector with one element. Found at the beginning of the Quickbase URL. Realm specific.
auth	Character vector with one element. The Quickbase authentication scheme you are using to authenticate the request (e.g., user token).
app_id	Character vector with one element. Unique identifier of an app. Found in the URL of the app's homepage after /db/
agent	Optional. Character vector with one element. Describes user/agent making API call.

Value

A list of tibbles.

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