Package ‘trelloR’

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Title R API for Trello
Version 0.1.0
Description Provides access to Trello API (<https://developers.trello.com/>). A family of GET functions make it easy to retrieve cards, labels, members, teams and other data from both public and private boards. Server responses are formatted upon retrieval. Automated paging allows for large requests that exceed server limit. See <https://github.com/jchrom/trelloR> for more information.
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get_board

Description

Returns a flat data frame with board-related data.

Usage

get_board_actions(id, ...)
get_board_cards(id, ...)
get_board_checklists(id, ...)
get_board_comments(id, ...)
get_board_labels(id, ...)
get_board_lists(id, ...)
get_board_members(id, ...)
get_card_checklists(id, ...)

Arguments

id Board ID
... Additional arguments passed to trello_get

See Also

trello_get
get_card

Get Card

Description
Returns a flat data.frame with card-related data.

Usage
get_card_actions(id, ...)
get_card_comments(id, ...)
get_card_labels(id, ...)
get_card_members(id, ...)

Arguments
id Card ID
... Additional arguments passed to trello_get

See Also
trello_get

get_flat

GET url and return data.frame

Description
GET url and return data.frame

Usage
get_flat(url, token = NULL, query = NULL)

Arguments
url url to get
token a secure token
query additional url parameters (defaults to NULL)
get_id  

Get model ID

Description

Get ID of a resource.

Usage

get_id_board(url, token = NULL)

get_id_card(url, token = NULL)

Arguments

url Complete url, short url or just the url ID part of a Trello board
token Secure token - get it with trello_get_token

Examples

# Get Trello Development Roadmap board ID
url = "https://trello.com/b/nC8QJJJoZ/trello-development-roadmap"
tdr_id = get_id_board(url)

# Also works:
url = "nC8QJJJoZ"
tdr_id = get_id_board(url)

get_list  

Get List

Description

Returns a flat dataframe with list-related data.

Usage

get_list_actions(id, ...)

get_list_cards(id, ...)

get_list_comments(id, ...)

Arguments

id Board ID
... Additional arguments passed to trello_get
\textit{get_member_boards} \hspace{1cm} \textit{Get Member’s Boards}

\textbf{Description}

Returns a flat data frame with member-related data.

\textbf{Usage}

\begin{verbatim}
get_member_boards(id, ...)  
\end{verbatim}

\textbf{Arguments}

- \textit{id} \hspace{1cm} member ID or username
- \textit{...} \hspace{1cm} Additional arguments passed to \texttt{trello_get}

\textbf{See Also}

\texttt{trello_get}

\textit{get_member_fields} \hspace{1cm} \textit{Get Member Info}

\textbf{Description}

Returns a flat data frame with member-related data.

\textbf{Usage}

\begin{verbatim}
get_member_fields(id, fields = c("fullName", "username", "memberType", "bio"), ...)  
\end{verbatim}

\textbf{Arguments}

- \textit{id} \hspace{1cm} member ID or username
- \textit{fields} \hspace{1cm} by default fetches fullName, username, memberType, bio
- \textit{...} \hspace{1cm} Additional arguments passed to \texttt{trello_get}

\textbf{See Also}

\texttt{trello_get}
get_my_boards  Get Own Boards

Description
Returns a flat data.frame with all your boards.

Usage
get_my_boards(token, ...)

Arguments
- **token**: Secure token - get it with trello_get_token
- **...**: Additional arguments passed to trello_get

See Also
trello_get

get_team  Get Team

Description
Returns a flat data.frame with team/organization-related data

Usage
get_team_members(id, ...)

get_team_boards(id, ...)

Arguments
- **id**: team ID, short name or URL
- **...**: Additional arguments passed to trello_get

Details
Previously, teams were called "organizations", and the correct parent/child name in API calls remains "organization", "organizations".

See Also
trello_get
trello_get  

*Get Data From Trello API*

**Description**

Issues GET requests for Trello API endpoints.

**Usage**

```r
trello_get(parent = NULL, child = NULL, id = NULL, token = NULL, 
           query = NULL, url = NULL, filter = NULL, limit = 1000, 
           paging = FALSE, bind.rows = TRUE)
```

**Arguments**

- `parent`: Parent structure (e.g. "board")
- `child`: Child structure (e.g. "card")
- `id`: Model ID
- `token`: Previously generated secure token, see *trello_get_token* for how to obtain it
- `query`: Key-value pairs which form the query, see GET for details
- `url`: URL for the GET request, use instead of specifying see parent, see id and see child; see GET for details
- `filter`: Query value
- `limit`: Query value (defaults to 1000; if reached, paging is suggested)
- `paging`: Logical whether paging should be used
- `bind.rows`: By default, pages will be combined into one data.frame by *bind_rows*. Set to FALSE if you want list instead. This is useful on the rare occasion that the JSON response is not formatted correctly and makes *bind_rows* fail.

**Details**

If the request fails, server error messages are reprinted on the console.

Only JSON responses are accepted. *fromJSON* converts them into flat data.frames or lists, while non-JSON type of response throws an error.

When `paging = TRUE`, the ID of the earliest result is retrieved from every page and supplied to the next request as the value of the "before" parameter. Paging will continue until the number of results per page is smaller then 1000, indicating no more pages to get.

`filter` and `limit` are query parameters and can be set individually; you could achieve the same result by using `query = list(filter = "filter_value", limit = "limit_value")`

**See Also**

GET, fromJSON, trello_get_token, get_id
Examples

# No authorization is required to access public boards. Let's get 
# the ID of Trello Development Roadmap board:
url = "https://trello.com/b/nC8QJoZ/trello-development-roadmap"
bid = get_id_board(url)

# Once we have the ID, we can use it to make specific queries:
labels = get_board_labels(bid)  # Get all labels
cards = get_board_cards(bid, limit = 5)  # Get 5 cards

# We can also call trello_get() directly:
lists = trello_get(parent = "board", child = "lists", id = bid)

# As with boards, cards can be queried for particular resources:
cardId = cards$Id[1]
cardAct = get_card_actions(cardId)  # Get all comments

# To retrieve large results, paging might be necessary:

## Not run:

tdr_actions = get_board_actions(bid, paging = TRUE)

## End(Not run)

# For private boards, you need a secure token:

## Not run:

token = get_token("your_key", "your_secret")
all_open_cards = get_board_cards(board_id, token, filter = "open")

## End(Not run)

---

trello_get_token Get A Secure Token

Description

Authorize access to Trello API.

Usage

```
trello_get_token(key, secret, appname = "trello")
```

Arguments

- **key**: developer key
- **secret**: developer secret
- **appname**: optional app name, defaults to "trello"
trello_search

Details

To access private data, a secure token is required. In order to create it, you will need your developer credentials (‘key’ and ‘secret’) - these can be obtained in Trello developer guide after login.

First time you create a token, you will be prompted to confirm the authorization in a browser (you only need to do this once). You will also be offered an option to store the authentication data in your working directory. Keep in mind you have to store your credentials in a secure, non-shared location.

`trello_get_token` call authentication functions from `httr`.

See Also

`oauth_app`, `oauth_endpoint`, `oauth1.0_token`

Examples

```r
# Source credentials from non-shared location (important!)

## Not run:

source("mykeys.R")
token = trello_get_token(key, secret)

## End(Not run)
```

trello_search  Search models

Description

Returns a list with search results.

Usage

```r
trello_search(string, ...)
trello_search_actions(string, ...)
trello_search_cards(string, ...)
trello_search_boards(string, ...)
trello_search_members(string, ...)
trello_search_teams(string, ...)
```
Arguments

- **string**: Text to search for
- ... Additional arguments passed to `trello_get`

See Also

- `trello_get`
- `trello_get_token`

Examples

```r
# Searches are only possible if authorized - a token is required:

## Not run:

trello_search("Anything with this text", my_token)
trello_search_cards("A card with this text", my_token)

## End(Not run)
```
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