

Package ‘trelloR’

September 23, 2016

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.

Depends R (>= 3.2.3)

Imports dplyr (>= 0.5), httr (>= 1.2), jsonlite (>= 1.0)

License GPL-3

LazyData true

URL <https://github.com/jchrom/trelloR>

BugReports <https://github.com/jchrom/trelloR/issues>

Date 2016-09-22

RoxygenNote 5.0.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Author Jakub Chromec [aut, cre],
Irina Matusevich [ctb]

Maintainer Jakub Chromec <chromec.jakub@gmail.com>

Repository CRAN

Date/Publication 2016-09-23 00:01:56

R topics documented:

get_board	2
get_card	3

get_flat	3
get_id	4
get_list	4
get_member_boards	5
get_member_fields	5
get_my_boards	6
get_team	6
trello_get	7
trello_get_token	8
trello_search	9

Index 11

get_board	<i>Get Board</i>
-----------	------------------

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	<i>Get Card</i>
----------	-----------------

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	<i>GET url and return data.frame</i>
----------	--------------------------------------

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	<i>Get model ID</i>
--------	---------------------

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/nC8QJJoZ/trello-development-roadmap"
tdr_id = get_id_board(url)

# Also works:
url  = "nC8QJJoZ"
tdr_id = get_id_board(url)
```

get_list	<i>Get List</i>
----------	-----------------

Description

Returns a flat data.frame 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

See Also

[trello_get](#)

`get_member_boards` *Get Member's Boards*

Description

Returns a flat `data.frame` with member-related data.

Usage

```
get_member_boards(id, ...)
```

Arguments

`id` member ID or username
`...` Additional arguments passed to [trello_get](#)

See Also

[trello_get](#)

`get_member_fields` *Get Member Info*

Description

Returns a flat `data.frame` with member-related data.

Usage

```
get_member_fields(id, fields = c("fullName", "username", "memberType", "bio"),  
...)
```

Arguments

`id` member ID or username
`fields` by default fetches `fullName`, `username`, `memberType`, `bio`
`...` Additional arguments passed to [trello_get](#)

See Also

[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

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

Arguments

<code>parent</code>	Parent structure (e.g. "board")
<code>child</code>	Child structure (e.g. "card")
<code>id</code>	Model ID
<code>token</code>	Previously generated secure token, see trello_get_token for how to obtain it
<code>query</code>	key-value pairs which form the query, see GET for details
<code>url</code>	Url for the GET request, use instead of specifying see parent, see id and see child; see GET for details
<code>filter</code>	Query value
<code>limit</code>	Query value (defaults to 1000; if reached, paging is suggested)
<code>paging</code>	Logical whether paging should be used
<code>bind.rows</code>	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 than 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/nC8QJJoZ/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:
card1id = cards$id[1]
card1act = get_card_actions(card1id) # 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"

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

```
# 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

```
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

```
# 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)
```

Index

`bind_rows`, 7

`fromJSON`, 7

`GET`, 7

`get_board`, 2

`get_board_actions` (`get_board`), 2

`get_board_cards` (`get_board`), 2

`get_board_checklists` (`get_board`), 2

`get_board_comments` (`get_board`), 2

`get_board_labels` (`get_board`), 2

`get_board_lists` (`get_board`), 2

`get_board_members` (`get_board`), 2

`get_card`, 3

`get_card_actions` (`get_card`), 3

`get_card_checklists` (`get_board`), 2

`get_card_comments` (`get_card`), 3

`get_card_labels` (`get_card`), 3

`get_card_members` (`get_card`), 3

`get_flat`, 3

`get_id`, 4, 7

`get_id_board` (`get_id`), 4

`get_id_card` (`get_id`), 4

`get_list`, 4

`get_list_actions` (`get_list`), 4

`get_list_cards` (`get_list`), 4

`get_list_comments` (`get_list`), 4

`get_member_boards`, 5

`get_member_fields`, 5

`get_my_boards`, 6

`get_team`, 6

`get_team_boards` (`get_team`), 6

`get_team_members` (`get_team`), 6

`httr`, 9

`oauth1.0_token`, 9

`oauth_app`, 9

`oauth_endpoint`, 9

`trello_get`, 2–6, 7, 10

`trello_get_token`, 4, 6, 7, 8, 9, 10

`trello_search`, 9

`trello_search_actions` (`trello_search`), 9

`trello_search_boards` (`trello_search`), 9

`trello_search_cards` (`trello_search`), 9

`trello_search_members` (`trello_search`), 9

`trello_search_teams` (`trello_search`), 9