

Package ‘Rlinkedin’

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Title Access to the LinkedIn API via R

Description A series of functions that allow users to access the LinkedIn API to get information about connections, search for people and jobs, share updates with their network, and create group discussions. For more information about using the API please visit <https://developer.linkedin.com/>.

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| Rlinkedin-package | <i>Access to LinkedIn API via R</i> |
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Description

This is an R package that provides a series of functions that allow users to access the LinkedIn API to get information about connections, search for people, search for jobs, share updates with your network, and create group discussions.

Author(s)

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See Also

[inOAuth](#), [getProfile](#), [getMyConnections](#), [getGroupPosts](#), [getGroups](#), [getJobs](#), [searchJobs](#), [searchPeople](#), [submitGroupPost](#), [submitShare](#), [getCompany](#), [searchCompanies](#)

| | |
|------------|---|
| getCompany | <i>Retrieve Company Profile Information</i> |
|------------|---|

Description

getCompany retrieves company profiles using a company Id, a universal name, or an email domain.

Usage

```
getCompany(token, universal_name = NULL, email_domain = NULL,  
           company_id = NULL)
```

Arguments

| | |
|----------------|---|
| token | Authorization token. |
| universal_name | LinkedIn universal company name. This is the exact name seen at the end of the URL on the company page on linkedin.com. |
| email_domain | The email domain used by the company. |
| company_id | LinkedIn company ID. |

Details

The 'universal name' needs to be the exact name seen at the end of the URL on the company page on linkedin.com.

Value

Returns company profile data, such as LinkedIn ID, name, universal-name, email-domains, company-type, ticker, website-url, industries, status, twitter handle, employee-count-range, specialties, locations, description, founded-year, and number of followers.

The output when specifying the `universal_name` or `company_id` will be in a list, whereas the output when specifying the `email_domain` will be a dataframe.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[searchCompanies](#)

Examples

```
## Not run:

company.name <- getCompany(token=in.auth, universal_name="Facebook")

company.email <- getCompany(token=in.auth, email_domain = "columbia.edu")

# Main Columbia Name:
company.id <- getCompany(token=in.auth, company_id = company.email$company_id[14])

## End(Not run)
```

getGroupPosts

Extract Posts from your LinkedIn Groups

Description

getGroupPosts will retrieve posts from each LinkedIn group you belong to.

Usage

```
getGroupPosts(token)
```

Arguments

token Authorization token.

Value

Returns a dataframe with the 10 most recent posts from each group you belong to.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getGroups](#) [submitGroupPost](#)

Examples

```
## Not run:  
  
my.groups <- getGroupPosts(in.auth)  
  
## End(Not run)
```

| | |
|-----------|--|
| getGroups | <i>Retrieve LinkedIn Group Information</i> |
|-----------|--|

Description

getGroups retrieves information and settings about the LinkedIn groups you belong to.

Usage

```
getGroups(token, details = FALSE)
```

Arguments

| | |
|---------|---|
| token | Authorization token. |
| details | TRUE or FALSE. If TRUE, it will return group details. FALSE is default. |

Details

This function returns information about what groups you belong to, either with or without group details. Group details can be called by setting the option `details = TRUE`.

Value

Returns a dataframe including group profile information.

When `details = FALSE` (default), the function will return information about each group's settings such as whether it allows messages from members, email frequency, and manager announcements.

When `details = TRUE`, the function will return both a short and long description of the group.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getGroupPosts](#) [submitGroupPost](#)

Examples

```
## Not run:  
  
my.groups <- getGroups(token = in.auth, details=TRUE)  
  
## End(Not run)
```

getJobs

Bookmarked and Recommended Jobs on LinkedIn

Description

getJobs can be used to retrieve your bookmarked and suggested jobs.

Usage

```
getJobs(token, suggestions = NULL, bookmarks = NULL)
```

Arguments

| | |
|-------------|--|
| token | Authorization token. |
| suggestions | TRUE or FALSE. If TRUE, it will return LinkedIn's job recommendations. |
| bookmarks | TRUE or FALSE. If TRUE, it will return jobs you've bookmarked on LinkedIn. |

Details

This function can return either jobs you've bookmarked on LinkedIn, or jobs LinkedIn is recommending for you, but not both at the same time.

Value

Returns a dataframe of recommended or bookmarked jobs.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[searchJobs](#)

Examples

```
## Not run:

job.suggestions <- getJobs(in.auth, suggestions=TRUE)
job.bookmarks <- getJobs(in.auth, bookmarks=TRUE)

## Will return NULL
job.fail <- getJobs(in.auth)

## End(Not run)
```

getMyConnections *Retrieve 1st Degree LinkedIn Connections*

Description

getMyConnections returns information about your 1st degree connections who do not have their profile set to private.

You cannot "browse connections." That is, you cannot get connections of your connections (2nd degree connections).

Usage

```
getMyConnections(token)
```

Arguments

token Authorization token.

Value

Returns a dataframe of your 1st degree LinkedIn connections.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getProfile](#), [searchPeople](#)

Examples

```
## Not run:

my.connections <- getMyConnections(in.auth)

## End(Not run)
```

| | |
|------------|---|
| getProfile | <i>Extract LinkedIn Profile Information</i> |
|------------|---|

Description

getProfile retrieve's profile information about to yourself, your connections, or another individual.

Usage

```
getProfile(token, connections = FALSE, id = NULL)
```

Arguments

| | |
|-------------|--|
| token | Authorization token. |
| connections | TRUE or FALSE. If TRUE, will return profile information of your connections. FALSE is default. |
| id | Numeric ID number of a LinkedIn member. |

Details

There are three separate calls in getProfile.

The first is to return profile information about yourself. The only input into the function under this scenario is the token.

The second is to return profile information about all your 1st degree connections. You need to supply the token and set the connections = TRUE.

The third is to return profile information about an individual based on their id number. This can be found if you search your connections using the getMyConnections function.

Value

Returns a list of profile information.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[searchPeople](#), [getMyConnections](#)

Examples

```
## Not run:  
  
profiles <- getProfile(in.auth, connections=TRUE)  
  
## End(Not run)
```

`inOAuth`*Create OAuth token to LinkedIn R session*

Description

`inOAuth` creates a long-lived OAuth access token that enables R to make authenticated calls to the LinkedIn API. This function relies on the `httr` package to create the OAuth token.

Usage

```
inOAuth(application_name = NULL, consumer_key = NULL,
         consumer_secret = NULL)
```

Arguments

| | |
|-------------------------------|--|
| <code>application_name</code> | Name of your application. |
| <code>consumer_key</code> | Consumer API Key of your application. |
| <code>consumer_secret</code> | Consumer Secret Key of your application. |

Details

There are two ways to create an authenticated connection. One is to use the default credentials supplied in the package. The second is to obtain your own credentials and using them as inputs into the function. Examples of both are shown below.

Create your own application here: <https://developer.linkedin.com/>

Value

Authorization token to be used in other functions.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getProfile](#), [getMyConnections](#)

Examples

```
## Not run:

## Default Consumer and Secret Key for the Rlinkedin package:
in.auth <- inOAuth()

## Use your own Consumer and Secret Key:
```



```
in.auth <- inOAuth("your_app_name", "your_consumer_key", "your_consumer_secret")  
  
## End(Not run)
```

| | |
|-----------------|---|
| searchCompanies | <i>Search for Companies on LinkedIn</i> |
|-----------------|---|

Description

searchCompanies searches across LinkedIn's companies pages based on keywords, location, and industry.

Usage

```
searchCompanies(token, keywords, location = NULL, industry = NULL)
```

Arguments

| | |
|----------|--|
| token | Authorization token. |
| keywords | A keyword used anywhere in a company's listing. Multiple words should be separated by a space. |
| location | LinkedIn geography code, found here: https://developer.linkedin.com/docs/reference/geography-codes . |
| industry | LinkedIn industry code, found here: https://developer.linkedin.com/docs/reference/industry-codes . |

Details

In order to narrow the search down by location or industry, you must look up the proper input codes on the linkedin website. The geography codes can be found here: <https://developer.linkedin.com/docs/reference/geography-codes>, and the industry codes can be found here: <https://developer.linkedin.com/docs/reference/industry-codes>.

Value

Returns a list, information includes company id, company name, universal name, website, twitter handle, employee count, founded date, number of followers, and company description.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getCompany searchJobs](#)

Examples

```
## Not run:

search.comp <- searchCompanies(in.auth, keywords = "LinkedIn")

## End(Not run)
```

 searchJobs

Search for Jobs on LinkedIn

Description

searchJobs searches across LinkedIn's job postings.

There are several parameters that allow you to conduct either a broad or focused search.

In order to use this function, you must create your own application and apply for the Vetted API Access here: <https://help.linkedin.com/app/ask/path/api-dvr>. You cannot use the default credentials supplied in the Rlinkedin package.

Usage

```
searchJobs(token, keywords = NULL, company_name = NULL, job_title = NULL,
  country_code = NULL, postal_code = NULL, distance = NULL)
```

Arguments

| | |
|--------------|---|
| token | Authorization token. |
| keywords | A keyword used in the job title or description. Multiple words should be separated by a space. |
| company_name | Company posting the job. |
| job_title | Title of the job. |
| country_code | Specify the country in which to search. This is the ISO3166 country code, and must be in lower case. |
| postal_code | Must be combined with the country_code parameter. |
| distance | Distance matches jobs within a distance from a central point. This is measured in miles and is best used in conjunction with both country_code and postal-code. |

Details

There are many different search parameters that allow you to make a focused search of a particular job within a certain company some area of the country. Or you can search for all jobs posted based on general keywords.

Value

Returns a dataframe of jobs based input parameters

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getJobs](#) [searchCompanies](#)

Examples

```
## Not run:  
  
search.results <- searchJobs(token = in.auth, keywords = "data scientist")  
  
## End(Not run)
```

searchPeople

Search for People on LinkedIn

Description

searchPeople allows you to search for connections on LinkedIn. It returns most of what shows up when you do a search for people in the box at the top of the page on linkedin.com.

There are a number of parameters that allow you to conduct either a broad or focused search.

In order to use this function, you must create your own application and apply for the Vetted API Access here: <https://help.linkedin.com/app/ask/path/api-dvr>.

Usage

```
searchPeople(token, keywords = NULL, first_name = NULL, last_name = NULL,  
             company_name = NULL, current_company = NULL, title = NULL,  
             current_title = NULL, school_name = NULL, current_school = NULL,  
             country_code = NULL, postal_code = NULL, distance = NULL)
```

Arguments

| | |
|--------------|--|
| token | Authorization token. |
| keywords | A keyword used in a person's profile. Multiple words should be separated by a space. |
| first_name | Search by a user's first name. |
| last_name | Search by a user's last name. |
| company_name | The name of a company where someone has as worked. |

| | |
|-----------------|--|
| current_company | TRUE or FALSE, can only be used in conjunction with company_name. |
| title | A job title someone has held |
| current_title | TRUE or FALSE, can only be used in conjunction with title. |
| school_name | The name of a school someone has attended. |
| current_school | TRUE or FALSE, can only be used in conjunction with current_school. |
| country_code | Specify the country in which to search. This is the ISO3166 country code, and must be in lower case. |
| postal_code | Must be combined with the country_code parameter. |
| distance | Distance matches members within a distance from a central point. This is measured in miles and is best used in conjunction with both country_code and postal-code. |

Value

Returns a dataframe of people based input parameters

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getProfile](#)

Examples

```
## Not run:

search.results <- searchPeople(token=in.auth, first_name="Michael", last_name="Piccirilli")

## End(Not run)
```

submitGroupPost

Create a Group Discussion Post

Description

submitGroupPost will create a group discussion post in one of the groups you belong to, specified by a Group Id.

Usage

```
submitGroupPost(token, group_id, disc_title = NULL, disc_summary = NULL,
  content_title = NULL, content_url = NULL, content_img = NULL,
  content_desc = NULL)
```

Arguments

| | |
|---------------|-------------------------------------|
| token | Authorization token. |
| group_id | Numeric Group ID. |
| disc_title | Group discussion title, required. |
| disc_summary | Group discussion summary, required. |
| content_title | Title for content, required. |
| content_url | Url for content, optional. |
| content_img | Url for an image, optional. |
| content_desc | Description of content, optional. |

Details

You must include a minimum of a discussion title, discussion summary, and content title.

Value

There are two possible responses to a successful submittal.

One, your post has been created and is visible immediately. In this case you have most likely posted to an unmoderated group.

Two, your post has been accepted by the API but is pending approval by the group moderator, in which case you will not see your post until it has been approved.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[getGroups](#) [getGroupPosts](#)

Examples

```
## Not run:

my.groups <- getGroups(in.auth)

id <- my.groups$group_id[1]
disc.title <- "Test connecting to the LinkedIn API via R"
disc.summary <- "Im creating an R package to connect to the LinkedIn API,
+ this is a test post from R!"
url <- "https://github.com/mpiccirilli"
content.desc <- "Dev version of access to LinkedIn API via R.
+ Collaboration is welcomed!"

submitGroupPost(in.auth, group_id=id, disc_title=disc.title,
disc_summary=disc.summary, content_url=url, content_desc=content.desc)

## End(Not run)
```

`submitShare`*Share an update to your network's activity feed*

Description

`submitShare` will post a network update to the newsfeed of your connections. You can select the visibility of your post to be seen either by 'anyone' or 'connections-only'.

Usage

```
submitShare(token, comment = NULL, content_title = NULL,  
            content_desc = NULL, content_url = NULL, content_img = NULL,  
            visibility = "anyone")
```

Arguments

| | |
|----------------------------|--|
| <code>token</code> | Authorization token. |
| <code>comment</code> | Headline of your post. |
| <code>content_title</code> | Title of your post. |
| <code>content_desc</code> | Description of your post. |
| <code>content_url</code> | Url to content you'd like to share. This is required if you specify either <code>content_title</code> or <code>content_desc</code> . |
| <code>content_img</code> | Url to an image you would like to include in your post, optional. |
| <code>visibility</code> | Choose the visibility of the post. The choices are 'anyone' or 'connections-only'. |

Details

If either `content_title` or `content_desc` is specified, you must also include a `content_url` for the post.

Value

Shares an update to your networks's activity feed.

Author(s)

Michael Piccirilli <michael.r.piccirilli@gmail.com>

See Also

[submitGroupPost](#)

Examples

```
## Not run:

comment <- "Test connecting to the LinkedIn API via R"
title <- "Im creating an R package to connect to the LinkedIn API, this is a test post from R!"
url <- "https://github.com/mpiccirilli"
desc <- "Dev version of access to LinkedIn API via R. Collaboration is welcomed!"

submitShare(token = in.auth, comment=comment, content_title=title,
            content_url=url, content_desc=desc)

## End(Not run)
```

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