

Package: opendatarte (via r-universe)

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Title opendatarte

Version 0.0.0.9000

Description This package is R Client to RTE API of
data.rte-france.com. It contains tools and functions to
authenticate to the API and retrieves the data.

Depends R (>= 3.3.0)

License GPL-3

LazyData true

RoxygenNote 6.1.1

Imports assertthat, httr (>= 1.4.0), purrr, jsonlite

Suggests testthat

Roxygen list(markdown = TRUE)

URL <https://github.com/cderv/opendatarte>

BugReports <https://github.com/cderv/opendatarte/issues>

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call_api	<i>Generic function to call RTE Data API</i>
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Description

This function is the base one used in each of the different API functions. It is ressource generic and could be adapted to call the available ressource on the data RTE portal.

Usage

```
call_api(ressource_path, refresh = TRUE, verbose = FALSE)
```

Arguments

ressource_path	string. Endpoint of the ressource as describe in data rte API documentation available on data.rte-france.com (part of the url after /open_api/)
refresh	logical. force to FALSE to prevent refresh
verbose	logical.

Value

an rte_api object as a list with

1. content: the parsed json resulting from the API call
2. path: the ressource called by the API request
3. response: the raw response from the API call.

datarte_auth	<i>Obtain credentials for RTE Data API</i>
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Description

It is the main fonction to use for accessing RTE Data API. It will request an access token for the current session if none currently exists and be valid.

Usage

```
datarte_auth(token = NULL, client_id = NULL, client_secret = NULL,  
  cache = FALSE)
```

Arguments

token	optional argument. it exists to supply manually a token. • if NULL (the default), the current token for the active session will be used. • if a character, it assumes to be the path to a <i>rds</i> file containing a valid Token2.0 object from httr • a Token2.0 object directly
client_id	character. the client id for the app. default NULL - will use the RTE_API_CLIENT environment variable.
client_secret	character. the client secret for the app. default NULL • will use the RTE_API_SECRET environment variable.
cache	logical or a string. TRUE to cache the access token into a file. A string means use the specified file. See <code>httr::oauth2.0_token()</code> for details.

Details

You can configure your R session to use always some client and secret by setting RTE_API_CLIENT and RTE_API_SECRET environment variable with `base::Sys.setenv()`

Value

invisibly the Token which is saved for the current session, and will be used when needed.

References

This function is inspired by googlesheet package and its Oauth2 system.

Examples

```
## Not run:
client_id <- "cliend_id"
client_secret <- "client_secret"
datarte_auth(client_id = client_id, client_secret = client_secret, cache = F)

## End(Not run)
```

datarte_token

Produces token for data.rte-france.com

Description

If token is not already available in the current session, this function will stop execution. An active token for the current session must be requested before any other task.

Usage

```
datarte_token(verbose = FALSE)
```

Arguments

verbose Set to TRUE to print information.

Details

Use `get_current_token()` to check for valid token.

Value

a request object (an S3 class provided by `httr`). It is the token prepared for use with `httr` configuration system. see `httr::config()`.

Examples

```
## Not run:
# use in httr fonction like GET for authentication as config for httr
datarte_auth(client_id, client_secret)
httr::GET("https://httpbin.org/get", datarte_token())

## End(Not run)
```

get_current_token	<i>Get current active token</i>
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Description

Get current active token

Usage

```
get_current_token(only_access_token = F)
```

Arguments

only_access_token
 logical. Default to FALSE

Value

If TRUE, just the token string is returned not the whole token object. If no token is available, for the current session, it returns NULL

Examples

```
get_current_token() # Returns NULL or token object credentials
get_current_token(TRUE) # Returns NULL or access token string only.
```

RegistreAPI	<i>Retrieve data from the capacity market public registry</i>
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Description

Retrieve data from the capacity market public registry

Usage

```
RegistreAPI(ressource = NULL, sandbox = T, refresh = T)
```

Arguments

ressource	name of the ressource to call in the API. Choices are describe in API documentation on the website http://www.data.rte-france.com
sandbox	logical. TRUE to call the sandbox URL for testing
refresh	logical. TRUE to allow refresh.

See Also

Other API-calls: [unavailabilityAPI](#)

unavailabilityAPI	<i>Retrieve data from the production API</i>
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Description

Retrieve data from the production API

Usage

```
unavailabilityAPI(ressource = NULL, sandbox = TRUE, refresh = TRUE)
```

Arguments

ressource	name of the ressource to call in the API. Choices are describe in API documentation on the website http://www.data.rte-france.com
sandbox	logical. TRUE to call the sandbox URL for testing
refresh	logical. TRUE to allow refresh.

See Also

Other API-calls: [RegistreAPI](#)

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