Package 'consibiocloudclient'

July 30, 2024

Type Package

Title A Client for the 'Consibio Cloud' API

Version 1.0.0

Description Enable seamless interaction with 'Consibio Cloud'
<https://consibio.cloud> 'API'
<https://api.v2.consibio.com/api-docs/>. This package provides tools
to query data from resources like projects, elements, devices, and
datalogs.

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Depends R (>= 3.5.0)

Imports httr2 (>= 1.0.2), magrittr, utils

Suggests dotenv, httptest2, knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

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Repository CRAN

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Contents

get_api_url   *Get API URL from environment variable*

Description

This function retrieves the API URL from the environment variable named "CONSIBIO_API_HOST", if it is set. If the environment variable is not set, it set and returns a default URL. Optionally, it can append a path to the URL.

Usage

```
get_api_url(path = NULL)
```

Arguments

path   A character string representing the API URL.

Value

A character string representing the API URL.

Examples

```
## Not run:
get_api_url("/users/me")

## End(Not run)
```

---

get_datalog *Get datalog for elements in project*

Description

Get the datalog for multiple elements in a project from Consibio APIs.

Usage

```
get_datalog(
  element_ids_to_fetch = NULL,
  from_time = NULL,
  to_time = NULL,
  interval = NULL,
  raw = FALSE
)
```

Arguments

element_ids_to_fetch

                 The element ids to fetch (`list`, Max 25).

from_time   The from date (`POSIXct` or numeric).

to_time   The to date (`POSIXct` or numeric).

interval   The interval (optional, in seconds).

raw   If TRUE, return the raw JSON response.

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_projects__project_id__datalog

Value

A data frame with the datalog information.

Examples

```
## Not run:
get_datalog(
  element_ids_to_fetch = c("{element_id}"),
  from_time = as.POSIXct("2021-01-01"), to_time = as.POSIXct("2021-01-02")
)

## End(Not run)
```

---

get_device   *Get device in project*

Description

Get the project device in Consibio APIs.

Usage

```
get_device(device_id = NULL)
```

Arguments

device_id   The device id.

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_projects__project_id__devices__device_id_

Value

A matrix with the device information.

Examples

```
## Not run:
get_device(device_id = "{device_id}")

## End(Not run)
```

---

get_devices   *Get devices in project*

Description

Get the project devices in Consibio APIs.

Usage

```
get_devices()
```

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_projects__project_id__devices

Value

A matrix with the devices information.

Examples

```
## Not run:
get_devices()

## End(Not run)
```

---

get_element   *Get element information*

Description

Get the element information from Consibio APIs.

Usage

```
get_element(element_id = NULL)
```

Arguments

element_id   The element id.

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_projects__project_id__elements__entity_id_

Value

A matrix with the element information.

Examples

```
## Not run:
get_element(element_id = "{element_id}")

## End(Not run)
```

---

get_elements   *Get elements accessible to the user*

Description

Get the projects elements to the user from Consibio APIs.

Usage

```
get_elements()
```

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_projects__project_id__elements

Value

A matrix with the project information.

Examples

```
## Not run:
get_elements()

## End(Not run)
```

---

get_project   *Get project information*

Description

Get the project information from Consibio APIs.

Usage

```
get_project(project_id = NULL)
```

Arguments

project_id   The project id (optional).

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_project

Value

A matrix with the project information.

Examples

```
## Not run:
get_project(project_id = "{project_id}")

## End(Not run)
```

---

get_projects   *Get projects accessible to the user*

Description

Get the projects accessible to the user from Consibio APIs.

Usage

```
get_projects()
```

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_projects

Value

A matrix with the project information.

Examples

```
## Not run:
get_projects()

## End(Not run)
```

get_project_id   *Get the Consibio project ID*

Description

This function retrieves the Consibio project ID from the options. If the project ID is not set or is an empty string, an error is thrown.

Usage

```
get_project_id()
```

Value

The Consibio project ID

Examples

```
# Set the Consibio project ID
# Alternatively, you can use the set_project_id('PROJECT_ID') function
options(consibio.project_id = "PROJECT_ID")

# Get the Consibio project ID
get_project_id()
```

get_test   *Consibio APIs status by calling the test endpoint*

Description

Get the status of requests directly at Consibio APIs. Does not require authentication.

Usage

```
get_test()
```

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_test

Value

A list with the status of the API and the time of the request.

Examples

```
## Not run:
c_get_test()

## End(Not run)
```

---

get_users_me   *Get the user information*

Description

Get the user information from Consibio APIs.

Usage

```
get_users_me()
```

Details

See details in https://api.v2.consibio.com/api-docs/#/default/get_users_me

Value

A matrix with the user information.

Examples

```
## Not run:
get_users_me()

## End(Not run)
```

---

is_valid_entity_id   *Is valid entity ID*

Description

Is valid entity ID

Usage

```
is_valid_entity_id(entity_id = NULL, type = NULL)
```

Arguments

entity_id   The entity ID

type   The type of the entity ID. Default is 'project' (will just change the halt error
                message)

Value

TRUE if the entity ID is valid, FALSE otherwise

Examples

```
## Not run:
is_valid_entity_id("123456", "project")

## End(Not run)
```

---

is_valid_username   *Check if a username is valid.*

Description

By using regular expressions, this function checks if a username is a valid email address.

Usage

```
is_valid_username(username = NULL)
```

Arguments

username   The username to be checked.

Value

TRUE if the username is valid, otherwise an error is thrown.

Examples

```
is_valid_username("john.doe@example.com")
## Not run:
is_valid_username("invalid_username")
is_valid_username("")
is_valid_username(NULL)

## End(Not run)
```

---

login *Login to Consibio API*

Description

Use username to login to the Consibio API. Password will be requested interactively, now and once the token expires. It sets the default username for authenticated requests.

Usage

```
login(username = NULL)
```

Arguments

username   A character string representing the username.

Value

A character string representing the logged-in username.

Examples

```
## Not run:
login("bob@helloworld.com")

## End(Not run)
```

---

logout *Logout by removing the username and cached token*

Description

Logout by removing the username and cached token

Usage

```
logout()
```

Value

TRUE

Examples

```
logout()
```

---

set_api_url   *Set API URL in environment variable*

Description

This function sets the API URL in the environment variable named "CONSIBIO_API_HOST".

Usage

```
set_api_url(url = NULL)
```

Arguments

url   A character string representing the API URL.

Value

A character string representing the API URL.

Examples

```
## Not run:
set_api_url("https://api.v2.consibio.com")

## End(Not run)
```

---

set_project_id   *Set the Consibio project ID option*

Description

Set the Consibio project ID option

Usage

```
set_project_id(project_id)
```

Arguments

project_id   The project ID to set.

Value

The project ID that was set.

Examples

```
set_project_id("PROJECT_ID")
```

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