

Package ‘hakaiApi’

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Title Authenticated HTTP Request Client for the 'Hakai' API

Version 1.0.0

Description Initializes a class that obtains API credentials and provides a method to use those credentials to make GET requests to the 'Hakai' API server. Usage instructions are documented at [<https://hakaiinstitute.github.io/hakai-api/>](https://hakaiinstitute.github.io/hakai-api/).

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URL <https://github.com/HakaiInstitute/hakai-api-client-r>

BugReports <https://github.com/HakaiInstitute/hakai-api-client-r/issues>

Depends R (>= 3.3.0)

Imports httr, R6, readr, tibble

Suggests knitr, markdown, rmarkdown

VignetteBuilder knitr

Encoding UTF-8

Language en-CA

RoxygenNote 7.1.1

NeedsCompilation no

Author Taylor Denouden [aut, cre],
Brett Johnson [aut],
Nate Rosenstock [ctb],
Chris Davis [ctb]

Maintainer Taylor Denouden <taylor.denouden@hakai.org>

Repository CRAN

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Client

*The Hakai API Client Class***Description**

Class to use to make authenticated API requests for Hakai data

Public fields

`api_root` The `api_root` you are logged in to

Methods**Public methods:**

- `Client$new()`
- `Client$get()`
- `Client$remove_credentials()`
- `Client$clone()`

Method `new()`: Log into Google to gain credential access to the API

Usage:

```
Client$new(
  api_root = "https://hecate.hakai.org/api",
  login_page = "https://hecate.hakai.org/api-client-login"
)
```

Arguments:

`api_root` Optional API base url to fetch data. Defaults to "https://hecate.hakai.org/api"

`login_page` Optional API login page url to display to user. Defaults to "https://hecate.hakai.org/api-client-login"

Returns: A client instance

Examples:

```
client <- Client$new()
```

Method `get()`: Send a GET request to the API

Usage:

```
Client$get(endpoint_url)
```

Arguments:

`endpoint_url` The full API url to fetch data from

Returns: A dataframe of the requested data

Examples:

```
client$get("https://hecate.hakai.org/api/aco/views/projects")
```

Method `remove_credentials()`: Remove your cached login credentials to logout of the client

Usage:

```
Client$remove_credentials()
```

Examples:

```
client$remove_credentials()
```

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
Client$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

```
# Initialize a new client
client <- Client$new()
# Follow authorization prompts to log in

# Retrieve some data. See <https://hakaiinstitute.github.io/hakai-api/> for options.
url <- paste0(client$api_root, "/aco/views/projects?project_year=2020&fields=project_name")
projects_2020 <- client$get(url)

print(projects_2020)
# # A tibble: 20 x 1
#   project_name
#   <chr>
# 1 Fountain FN
# 2 Haig Glacier
# 3 Fraser River - Chimney Creek West William Canyon
# 4 Cruickshank WS
# ...

## -----
## Method `Client$new`
## -----

client <- Client$new()

## -----
## Method `Client$get`
## -----

client$get("https://hecate.hakai.org/api/aco/views/projects")

## -----
## Method `Client$remove_credentials`
## -----

client$remove_credentials()
```

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