Package ‘hakaiApi’

May 7, 2021

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/>.

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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

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Repository CRAN

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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://hakainstitute.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
# ...
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