## Package: hakaiApi (via r-universe)

October 19, 2024

Title Authenticated HTTP Request Client for the 'Hakai' API	
Version 1.0.2	
<b>Description</b> 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 <a href="https://hakaiinstitute.github.io/hakai-api/">https://hakaiinstitute.github.io/hakai-api/</a> .	
License MIT + file LICENSE	
<pre>URL https://github.com/HakaiInstitute/hakai-api-client-r</pre>	
BugReports https://github.com/HakaiInstitute/hakai-api-client-r/issues	
<b>Depends</b> R ( $>= 3.3.0$ )	
Imports dplyr, httr2, R6, readr, tibble	
Suggests knitr, markdown, rmarkdown	
VignetteBuilder knitr	
Encoding UTF-8	
Language en-CA	
RoxygenNote 7.3.2	
Repository https://hakaiinstitute.r-universe.dev	
RemoteUrl https://github.com/hakaiinstitute/hakai-api-client-r	
RemoteRef HEAD	
<b>RemoteSha</b> de1ca32bd7d688aa40e73fdaccf128b1a22064b0	
Contents	
Client	2
Index	5

2 Client

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\$post()
- Client\$put()
- Client\$patch()
- Client\$remove\_credentials()
- Client\$clone()

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

endpoint\_url The full API url to fetch data from

Returns: A dataframe of the requested data

```
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()</pre>
Method get(): Send a GET request to the API
 Usage:
 Client$get(endpoint_url)
 Arguments:
```

```
Examples:
 client$get("https://hecate.hakai.org/api/aco/views/projects")
Method post(): Send a POST request to the API
 Usage:
 Client$post(endpoint_url, rec_data)
 Arguments:
 endpoint_url The full API url to fetch data from
 rec_data dataframe, list, or other R data structure to send as part of the post request payload
 Returns: post request response status code and description
Method put(): Send a PUT request to the API
 Usage:
 Client$put(endpoint_url, rec_data)
 Arguments:
 endpoint_url The full API url to fetch data from
 rec_data dataframe, list, or other R data structure to send as part of the post request payload
 Returns: PUT request response status code and description
Method patch(): Send a PATCH request to the API
 Usage:
 Client$patch(endpoint_url, rec_data)
 Arguments:
 endpoint_url The full API url to fetch data from
 rec_data dataframe, list, or other R data structure to send as part of the post request payload
 Returns: PATCH request response status code and description
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.
```

4 Client

## **Examples**

```
# Initialize a new client
client <- Client$new()</pre>
# Follow authorization prompts to log in
# Retrieve some data. See <https://hakaiinstitute.github.io/hakai-api/> for options.
url <- paste0(client$api_root, "/aco/views/projects?project_year=2020&fields=project_name")</pre>
projects_2020 <- client$get(url)</pre>
print(projects_2020)
# # A tibble: 20 x 1
   project_name
#
    <chr>
# 1 Fountain FN
# 2 Haig Glacier
# 3 Fraser River - Chimney Creek West William Canyon
# 4 Cruickshank WS
# ...
## -----
## Method `Client$new`
## -----
client <- Client$new()</pre>
## Method Client$get
## -----
client$get("https://hecate.hakai.org/api/aco/views/projects")
## Method `Client$remove_credentials`
client$remove_credentials()
```

# **Index**

Client, 2