
singstat

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This is an unofficial Python package for interacting with APIs available at [SingStat.gov.sg](https://singstat.gov.sg).

INSTALLING THE PACKAGE

Install the package using `pip`:

```
pip install singstat
```


USING THE PACKAGE

The main steps are:

1. Import the Client class.
2. Instantiate an object from the Client class.
3. Call a function on that object.

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3.1 Package Overview

Interacting with [SingStat.gov.sg](https://singstat.gov.sg)'s API is done through a client.

This client contains several public functions, one function per endpoint. A function's name is the same as its corresponding endpoint's ending path.

Most functions accept named arguments, where an argument corresponds with a parameter that the endpoint accepts.

3.2 Package Reference

3.2.1 singstat

singstat.exceptions

Exceptions that could occur when interacting with any API.

exception `singstat.exceptions.APIError`(*message*, *errors=None*)

Bases: `Exception`

Error when the API returns an error.

message

The general error message to display when the error is raised.

Type

`str`

errors

(optional) Other messages that were part of the raised error.

Type

`list of str`

3.2.2 singstat.client

Client for interacting with the SingStat APIs.

Example usage:

```
# list all available packages
from singstat import Client
client = Client()
resources = client.resource_id()
```

Methods

class singstat.client.Client

Bases: `object`

Interact with SingStat’s API to access its catalogue of datasets.

References

<https://tablebuilder.singstat.gov.sg/view-api/for-developers>

metadata(*resource_id*)

Return the metadata of a resource.

Parameters

resource_id (*str*) – ID of the resource.

Returns

(dict) Metadata of the requested resource.

resource_id(*keyword*='%', *search_option*='All')

Search for a list of resources.

Parameters

- **keyword** (*str*) – (optional) Keyword to search resources by. Default: “%”, i.e. don’t search by any specific keyword.
- **search_option** (*str*) –
(optional) Where to search the keyword in.
 - “All”: search in all resources.
 - “Title”: search in resource titles only.
 - “Variable”: search in resource variables only.

Default: “All”.

Returns

(dict) List of resources.

tabledata(*resource_id*, *variables*=[], *between*=[], *sort_by*=None, *offset*=0, *limit*=2000, *time_filter*=[], *search*=None)

Retrieve data in a resource.

Parameters

- **resource_id** (*str*) – ID of the resource.
- **variables** (*list*) – (optional) variables to retrieve. Example: ["variableCode 1", "variableCode 2", ...].
- **between** (*list*) – (optional) Data value range to be returned. Example: [1560, 1677].
- **sort_by** (*str*) – (optional) Comma-separated field names with ordering. Example: "variableCode,level desc".
- **offset** (*int*) – (optional) Offset this number of records. Default: 0.
- **limit** (*int*) – (optional) Number of records to return. Maximum is 2,000. Default: 2000.
- **time_filter** (*list*) –
(optional) Time points for the selected table. Examples:
 - Monthly table: ["2018 Mar"]
 - Quarterly table: ["2017 4Q", "2018 1Q"]
 - Half yearly table: ["2018 H1"]
 - Annual table: ["2017", "2018"]
- **search** (*str*) – (optional) Text to search for records.

Returns

(dict) Records of data that match the search criteria.

3.3 External References

SingStat.gov.sg's Developer Guide

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

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