
singstat
Release 1.1.0

Yuhui

Feb 03, 2024

CONTENTS

1	Installing the package	3
2	Using the package	5
3	Contents	7
3.1	Package Overview	7
3.2	Package Reference	7
3.3	External References	9
4	Indices and tables	11
5	License	13
6	Logo	15
	Python Module Index	17
	Index	19

Release v1.1.0.

This is an unofficial Python package for interacting with APIs available at SingStat.gov.sg.

**CHAPTER
ONE**

INSTALLING THE PACKAGE

Install the package using pip:

```
pip install singstat
```

**CHAPTER
TWO**

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.

CONTENTS

3.1 Package Overview

Interacting with 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

**CHAPTER
FOUR**

INDICES AND TABLES

- genindex
- modindex
- search

**CHAPTER
FIVE**

LICENSE

This project is licensed under the GNU General Public License v3.0.

**CHAPTER
SIX**

LOGO

The logo is copyright by the Government of Singapore. It is used for reference only. This project's owner does not have any copyright claim over it.

PYTHON MODULE INDEX

S

`singstat.client`, 8

`singstat.exceptions`, 7

INDEX

A

`APIError`, [7](#)

C

`Client` (*class in singstat.client*), [8](#)

E

`errors` (*singstat.exceptions.APIError attribute*), [7](#)

M

`message` (*singstat.exceptions.APIError attribute*), [7](#)

`metadata()` (*singstat.client.Client method*), [8](#)

`module`

`singstat.client`, [8](#)

`singstat.exceptions`, [7](#)

R

`resource_id()` (*singstat.client.Client method*), [8](#)

S

`singstat.client`

`module`, [8](#)

`singstat.exceptions`

`module`, [7](#)

T

`tabledata()` (*singstat.client.Client method*), [8](#)