libslack Documentation

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Contents

1 libslack **1**
- 1.1 Status . . . 1
- 1.2 Tickets . . . 1
- 1.3 Overview . . . 1
- 1.4 Links . . . 1
- 1.5 Requirements . . . 1
- 1.6 Dependencies . . . 1
- 1.7 Installation . . . 1
  - 1.7.1 From PyPi . . . 1
  - 1.7.2 From Github . . . 2
  - 1.7.3 From Source . . . 2

2 Tools **3**
- 2.1 Slack CMD (scmd) . . . 3
  - 2.1.1 Usage . . . 3
  - 2.1.2 Example . . . 3
- 2.2 Slack Shell (sls) . . . 3
  - 2.2.1 Usage . . . 4
  - 2.2.2 Screenshot . . . 4

3 API-Reference **5**

4 License **7**

5 Indices and tables **9**

Python Module Index **11**

CHAPTER 1

libslack

Status

Tickets

Overview

libslack is a lightweight python wrapper around the Slack-Web-Api. As part of libslack a small tool called scmd.py which provides a command line interface for the slack api.

Links

- Project on Github
- Documentation

Requirements

- Python 3.4 and newer

Dependencies

- docopt

Installation

From PyPi

```
pip install libslack
```

From Github

```
pip install git+https://github.com/Nicoretti/libslack.git
```

From Source

```
python3 setup.py install
```

CHAPTER 2

Tools

Slack CMD (scmd)

The Slack CMD enables its user to use the slack web api via the command line.

Usage

```
Usage:

scmd (API_COMMAND | -h | -v ) [<params>] [--auth-token=<token>]

Options:
  -h                    Show this screen.
  -v                    Show version.
  --auth-token=<token>  The authentication token which will be used to access
                        the slack api.
                        As an alternative you can specify it in the .slackrc
                        or set the $SLACK_API_TOKEN environment variable.
```

Example

Call auth.test method

```
User@Host ~ $ scmd auth.test --auth-token xoxb-xxxxxxxxxx-yyyyyyyyyyyyyyyyyyyyyyyy
{'user_id': 'UXXXXXXXX', 'url': 'https://teamname.slack.com/', 'team': 'Teamname', 'user': 'username
```

Send a chat message using the web api

```
User@Host ~ $ scmd chat.postMessage "{'channel': 'CXXXXXXXX', 'text': 'this is a message send fd fro
{'ok': True, 'message': {'username': 'bot', 'subtype': 'bot_message', 'ts': '1445633421.000121', 'te
```

Slack Shell (sls)

The Slack Shell provides an interactive shell which enables the user to interactively interact with the slack web api (e.g. query all registered users).

Usage

```
Usage:

  sls [--auth-token=<token>]
  sls -h | --help
  sls -v | --version

Options:
  -h --help             Show this screen.
  -v --version          Show version.
  --auth-token=<token>  The authentication token which will be used to access
                        the slack api.
                        As an alternative you can specify it in the .slackyrc
                        or set the $SLACK_API_TOKEN environment variable.
```

Screenshot

```
Slack Shell (SLS)
To get help type help

((SLS)) >>> help

Documented commands (type help <topic>):
========================================
help  list  quit

((SLS)) >>> list help
((SLS)) >>> help list

        The list command can be used to query various information fon the slack server.

        Usage:
            list channels [-h]
            list users [-h]

        Options:

            -h  prints help for the preceding command.

((SLS)) >>>
```

CHAPTER 3

API-Reference

class `libslack.slackapi.`**`SlackApi`**(*authentication_token*, *request=None*)

A SlackApi object can be used to interact with the slack api.

For futher details see methods.

`call`(*api_call*, *parameters=None*)

Executes a call on the remote slack api and returns an appropriate `SlackApiResponse` object.

Parameters

- **`api_call`** (*`string`*) – which identifies the web api endpoint which shall be called.
- **`parameters`** (*`dict`*) – which will be supplied to the web api endpoint.

  e.g.: `{'channel': 'C1234567890', 'text': 'this message will be sent'}`

  > **Attention:** The authentication-token allways will be passed to the endpoint implicitly.

Returns an ApiResponse object containing the data provided by the slackapi endpoint.

Raise Exception if an unknown api method is called.

class `libslack.slackapi.`**`SlackApiRequest`**(*api_call*, *authentication_token*)

The SlackApiRequest class handles and encapsulates a slack request.

`execute`(*request_parameters=None*)

Executes an ApiRequest, request an api call.

Parameters

- **`request_parameters`** (*`dict`*) – which will be supplied to the web api endpoint.

  e.g.: `{'channel': 'C1234567890', 'text': 'this message will be sent'}`

  > **Attention:** The authentication-token allways will be passed to the endpoint implicitly.

- **`authentication_token`** – which grants access to the api.

Returns an SlackApiResponse object based on the response of the slackapi endpoint.

Raise Exception if an error occurs while executing the api call.

class `libslack.slackapi.`**`SlackApiResponse`**(*response_data*)

The SlackApiResponse class handles and encapsulates an response provided by the slackapi after an api method was called at the endpoint.

`get_error_message`()

If is_error returns True, this method returns a more detail error message.

Returns a string which provides a more detail error message.

`is_error`()

Indicates whether or not the response indicates that an error occured while trying to execute the associated api call.

Returns True if an error has occurred, otherwise False.

CHAPTER 4

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CHAPTER 5

Indices and tables

- genindex
- modindex
- search

Python Module Index

l

libslack.slackapi, 5

C

call() (libslack.slackapi.SlackApi method), 5

E

execute() (libslack.slackapi.SlackApiRequest method), 5

G

get_error_message() (libslack.slackapi.SlackApiResponse method), 6

I

is_error() (libslack.slackapi.SlackApiResponse method), 6

L

libslack.slackapi (module), 5

S

SlackApi (class in libslack.slackapi), 5
SlackApiRequest (class in libslack.slackapi), 5
SlackApiResponse (class in libslack.slackapi), 5