pullover Documentation

Release 1.0.0

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Contents

The simplest Pushover API wrapper for Python, release v1.0.0.

CHAPTER 1

Send a message

To send a message, simply:

```
>>> import pullover
>>> pullover.send('message', 'user', 'app')
```

You can additionally pass any parameters accepted by *Message*'s initialiser.

pullover.**send**(*body*, *user_key*, *app_token*, ***kwargs*)

Send a message to a user from an application.

Parameters

- **body** (*str*) – The body of the message to send.
- **user_key** (*str*) – The user key to send to.
- **app_token** (*str*) – The application token to send from.
- **kwargs** – Additional keyword arguments to pass to *Message*'s initialiser.

Returns A message send response instance.

Return type *SendResponse*

CHAPTER 2

Querying the response

pullover.send() returns a *SendResponse* object, from which the status, request ID and any errors can be retrieved.

```
>>> response = pullover.send('message', 'user', 'app')
>>> response.ok
True
>>> response.id
5042853c-402d-4a18-abcb-168734a801de
>>> response.status
1
>>> response.errors
[]
```

If you'd like to use exceptions, *raise_for_status()* will raise either a *ClientSendError* or *ServerSendError* if *ok* is `False`.

class `pullover.message.`**SendResponse**(*response*)

Represents the Pushover API's response to a message send request.

ok

Find whether the response indicates the message was successfully sent.

Returns True if it was, false otherwise.

Return type bool

raise_for_status()

Raise an appropriate exception given this response.

Raises ***SendError*** – If this response indicates a request failed.

CHAPTER 3

API Documentation

Low-level API

The high-level API exposes the same functionality as the low-level API in a simpler way, hiding the creation and interaction of various objects.

Applications

class pullover.**Application**(*token*)
Encapsulates a Pushover application token, and signs requests with it.

__init__(*token*)
Initialise a new application.

Parameters **token** (*str*) – The application token.

Users

class pullover.**User**(*key*)
Encapsulates a Pushover user key, and signs requests with it.

__init__(*key*)
Initialise a new user.

Parameters **key** (*str*) – The user key.

Messages

class pullover.**Message**(*body*, *title=None*, *timestamp=None*, *url=None*, *url_title=None*, *priority=0*)
Represents a Pushover message.

HIGH = 1

LOW = -1

LOWEST = -2

NORMAL = 0

__init__(*body*, *title=None*, *timestamp=None*, *url=None*, *url_title=None*, *priority=0*)
Initialise a new message.

Parameters

- **body** (*str*) – The contents of the message.
- **title** (*str*) – The message heading. If not provided, the name of the sending application will be shown.
- **timestamp** (*datetime.datetime*) – The message datetime. Defaults to now.
- **url** (*str*) – A supplementary URL to show underneath the message.
- **url_title** (*str*) – The title for the URL above. Requires URL be set.
- **priority** (*int*) – The message priority, e.g. *HIGH*. Defaults to *NORMAL*.

Raises **ValueError** – If a URL title is provided, but no URL.

prepare(*application*, *user*)
Package up this message with a sending application and user, ready for sending.

Parameters

- **application** (Application) – The application to send the message from.
- **user** (User) – The user to send the message to. All devices will receive it.

Returns A prepared message object.

Return type *PreparedMessage*

send(*application*, *user*, *timeout=3*, *retry_interval=5*, *max_tries=5*)
Send this message to a user, making it originate from a given application. This method guarantees not to throw any exceptions.

Parameters

- **application** (Application) – The application to send the message from.
- **user** (User) – The user to send the message to. All devices will receive it.
- **timeout** (*float*) – The number of seconds to allow for each request to Pushover. Defaults to 3s.
- **retry_interval** (*float*) – The amount of time to wait between requests. Defaults to 5s. Note, this is the minimum recommended by Pushover.
- **max_tries** (*int*) – The number of attempts to make before giving up. Defaults to 5. Set this to 1 to disable back-off.

Returns The result of the send attempt.

Return type *SendResponse*

Prepared messages

If you want your *Message*, *Application* and *User* creation logic to be separate from your sending logic, prepared messages may help. These are essentially just a tuple containing all three objects, that you can call *send()* on when ready.

class pullover.**PreparedMessage**(*message*, *application*, *user*)
A message together with its sending application and receiving user.

send(**kwargs*)
Send this prepared message.

Parameters **kwargs** – Additional parameters to pass to *Message.send()*.

Returns The result of the send attempt.

Return type *SendResponse*

Exceptions

class pullover.**PulloverError**
The abstract base class of all errors raised by pullover.

class pullover.**SendError**
Derived instances of this abstract class are raised by *raise_for_status()* if a request was not successful.

class pullover.**ClientSendError**(*status*, *errors*)
Represents a message send error where we're at fault.

class pullover.**ServerSendError**(*response*)
Represents a message send error where Pushover is experiencing issues.

CHAPTER 4

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