pygett Documentation

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ABOUT

This library provides a binding to the REST API for the file sharing service Ge.tt. Please see the Ge.tt Developer's Documentation for information on how to get an API key.

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INSTALLATION

To install, use the standard python setup.py install

QUICK USAGE

The API initializaton requires the following parameters to be present:

- apikey: The API key assigned by Ge.tt for your application
- email: The email address linked to an API key
- password: The password linked to an API key

Example initialization:

```
from pygett import Gett
client = Gett(
        apikey = "apitest",
        email = "apitest@ge.tt",
        password = "secret"
Getting a dict of all shares:
shares = client.get_shares()
for file in shares['4ddfds'].files
    print file.filename
Getting a list of all shares:
shares = client.get_shares_list()
for share in shares:
    for file in share.files:
        print share.sharename + "\t" + file.filename + "\t" + file.size
Getting a specific share:
share = client.get_share("4ddfds")
Getting a specific file:
file = client.get_file("4ddfds", 0)
Uploading a file:
file = client.upload_file(
        filename = "test.rst",
        data = open("test.rst", "rb").read()
print "File '%s' is now available at %s" % (file.filename, file.getturl)
```

Downloading file content:

```
file = client.get_file("4ddfds", 0)
buffer = file.contents()
```

Most methods return a pygett.base.Gett specific object such as pygett.shares.GettShare, pygett.files.GettFile or pygett.user.GettUser.

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4.1 pygett Package

4.1.1 base Module

```
class pygett.base.Gett(*args, **kwargs)
    Base client object
```

Requires the following keyword arguments:

- apikey The API key assigned to an application by Gett
- email The email address linked to the API key
- password The password linked to the API key

Attribute

• user - a pygett.user.GettUser object

create_share(**kwargs)

Create a new share. Takes a keyword argument.

Input:

• title optional share title (optional)

Output:

• A pygett.shares.GettShare object

Example:

```
new_share = client.create_share( title="Example Title" )
```

get_file (sharename, fileid)

Get a specific file. Does not require authentication.

Input:

- A sharename
- A fileid must be an integer

Output:

• A pygett.files.GettFile object

Example:

```
file = client.get_file("4ddfds", 0)
get_share(sharename)
    Get a specific share. Does not require authentication.
    Input:
          · A sharename
    Output:
          • A pygett.shares.GettShare object
    Example:
    share = client.get_share("4ddfds")
get_shares(**kwargs)
    Gets all shares.
    Input:
          • skip the number of shares to skip (optional)
          • limit the maximum number of shares to return (optional)
    Output:
                dict
                     where keys
                                            sharenames
                                                                                   corresponding
                                      are
                                                         and
                                                               the
                                                                     values
                                                                              are
            pygett.shares.GettShare objects
    Example:
    shares = client.get_shares()
get_shares_list(**kwargs)
    Gets all shares.
    Input:
          • skip the number of shares to skip (optional)
          • limit the maximum number of shares to return (optional)
    Output:
          • a list of pygett.shares.GettShare objects
    Example:
    shares_list = client.get_shares_list()
upload file(**kwargs)
    Upload a file to the Gett service. Takes keyword arguments.
```

Input:

- filename the filename to use in the Gett service (required)
- data the file contents to store in the Gett service (required) must be a string
- sharename the name of the share in which to store the data (optional); if not given, a new share will be created.
- title the share title to use if a new share is created (optional)

Output:

• A pygett.files.GettFile object

Example:

```
file = client.upload_file(filaname="foo", data=open("foo.txt").read())
```

4.1.2 exceptions Module

```
exception pygett.exceptions.GettError (status_code, endpoint, params)
Base error class
```

Attributes

- http_status The HTTP status code from the remote server
- endpoint The URI to which a request was attempted
- error A message describing the error

4.1.3 files Module

```
class pygett.files.GettFile (user, **kwargs)
Encapsulate a file in the Gett service.
```

Encapsulate a me m the Gett service

Attributes

This object has the following attributes:

- fileid A file id as assigned by the Gett service
- sharename The sharename in which this file is contained
- downloads The number of downloads of this file
- getturl The URL at which this file can be viewed in a browser
- filename The user specified filename
- readystate The Gett state of this file

During file uploads, the following attributes will be set:

- put_upload_url A URL suitable for use with the PUT HTTP verb (see send_file())
- post_upload_url A URL suitable for use with the POST HTTP verb

contents()

This method downloads the contents of the file represented by a GettFile object's metadata.

Input:

• None

Output:

A byte stream

NOTE: You are responsible for handling any encoding/decoding which may be necessary.

Example:

```
file = client.get_file("4ddfds", 0)
print file.contents()
```

destroy()

This method removes the file's content and metadata from the Gett service. There is no way to recover the data once this method has successfully completed.

Input:

• None

Output:

• True

Example:

```
client.get_file("4ddfds", 0).destroy()
```

refresh()

Retrieve current file metadata from the Gett service.

Input:

• None

Output:

• None

Example:

```
file = client.get_file("4ddfds", 0)
print "File size: %s" % file.size # File size: 96
file.send_data(put_url=file.upload_url, data=open("example.txt", "rb").read())
file.refresh()
print "File size: %s" % file.size # File size: 109
```

send data(**kwargs)

This method transmits data to the Gett service.

Input:

- put_url A PUT url to use when transmitting the data (required)
- data A byte stream (required)

Output:

• True

Example:

```
if file.send_data(put_url=file.upload_url, data=open("example.txt", "rb").read()):
    print "Your file has been uploaded."
```

thumbnail()

This method returns a thumbnail representation of the file if the data is a supported graphics format.

Input:

• None

Output:

• A byte stream representing a thumbnail of a support graphics file

Example:

```
file = client.get_file("4ddfds", 0)
         open("thumbnail.jpg", "wb").write(file.thumbnail())
     upload_url()
         This method generates URLs which allow overwriting a file's content with new content. The output is
         suitable for use in the send data() method below.
         Input:
               • None
         Output:
               • A URL (string)
         Example:
         file = client.get_file("4ddfds", 0)
         file.send_data(put_url=file.upload_url, data=open("example.txt", "rb").read())
4.1.4 request Module
```

```
class pygett.request.BaseRequest(*args, **kwargs)
     Base request class
     get (endpoint, *args, **kwargs)
          get
          Make a GET call to a remote endpoint
```

Input:

• An endpoint relative to the base_url

Output:

• A pygett.request.GettResponse object

```
post (endpoint, d, *args, **kwargs)
```

Make a POST call to a remote endpoint

Input:

- An endpoint relative to the base_url
- · POST data

NOTE: Passed POST data will be automatically serialized to a JSON string if it's not already a string

Output:

• A pygett.request.GettResponse object

```
put (endpoint, d, *args, **kwargs)
```

put

Make a PUT call to a remove endpoint

Input:

- · An absolute endpoint
- · A data stream

Output:

• A pygett.request.GettResponse object

```
class pygett.request.GettRequest(*args, **kwargs)
```

Encapsulate a request to the Gett service

Attributes

- base_url The base URL of the service (defaults to https://open.ge.tt/1)
- endpoint The full URL of the remote endpoint
- type The type of request (GET, POST, or PUT)
- data The data for a POST or PUT request

class pygett.request.GettResponse(http_status, response)

Encapsulate responses from the Gett service

Attributes

- http_status The status code from the remote endpoint
- string_response The response as a string, before descrialization
- response The response serialized into a dict

4.1.5 shares Module

```
class pygett.shares.GettShare(user, **kwargs)
```

Encapsulate a share in the Gett service.

Attributes

- sharename The sharename
- title The share title (if any)
- created Unix epoch seconds when the share was created
- files A list of all files contained in a share as pygett.files.GettFile objects

destroy()

This method removes this share and all of its associated files. There is no way to recover a share or its contents once this method has been called.

Input:

• None

Output:

• True

Example:

```
client.get_share("4ddfds").destroy()
```

refresh()

This method refreshes the object with current metadata from the Gett service.

Input:

• None

Output:

• None

Example:

```
share = client.get_share("4ddfds")
print share.files[0].filename  # prints 'foobar'
if share.files[0].destroy():
    share.refresh()
    print share.files[0].filename  # now prints 'barbaz'
update(**kwargs)
```

Input:

• title The share title, if any (optional)

Add, remove or modify a share's title.

NOTE: Passing None or calling this method with an empty argument list will remove the share's title.

Output:

None

Example:

```
share = client.get_share("4ddfds")
share.update(title="Example") # Set title to Example
share.update() # Remove title
```

4.1.6 user Module

Attributes

- apikey The API key assigned by Gett for an application
- email The email linked to the API key
- password The password linked to the API key

After a successful login the following attributes are populated:

- refresh_token Used to get a new valid access token without requiring the API key, email and password
- access_token_expires Epoch seconds until the current access token is no longer valid. Typically 86400 seconds from login. (Suitable for use with time.localtime())
- access_token_grace How many seconds before an access token is scheduled to expire to attempt a renewal. (Defaults to 3600 seconds)
- userid User ID string supplied by Gett
- fullname The full name linked to an authenticated user account
- storage_used The amount of storage consumed (in total) for this user account. (Unit: bytes)
- storage_limit The maximum number of bytes available for storage. (Unit: bytes)

```
access_token()
access token
```

Returns a valid access token. If the user is not currently logged in, attempts to do so. If the current time exceeds the grace period, attempts to retrieve a new access token.

Input:

• None

Output:

· A valid access token

Example:

```
print "Your access token is currently %s" % client.user.access_token()
login(**params)
```

Use the current credentials to get a valid Gett access token.

login

• A dict of parameters to use for the login attempt (optional)

Output:

• True

Example:

```
if client.user.login():
       print "You have %s bytes of storage remaining." % ( client.user.storage_limit - client_u
refresh()
```

refresh

Refresh this user object with data from the Gett service

Input:

• None

Output:

• True

Example:

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```
if client.user.refresh():
   print "User data refreshed!"
   print "You have %s bytes of storage remaining." % ( client.user.storage_limit - client_u
```

FIVE

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