INSTAPY

PYTHONIC TOOL FOR AUTOMATED INSTAGRAM INTERACTIONS

by Tim Grossmann

UPCOMING CONTRIBUTION



METHODOLOGY FOLLOWED

STEP 1

Check with github issues section for asked features.

Analyse the need for new features by checking with the entire code & documentation.

STEP 2

Rank possible contributions based on the ease of undertaking each one.



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Insert target users, hashtags etc from text files.

WHY THOUGH?

1

There is need for automation.

2

Multiple functions will be affected.

3

Implementation was clear in mind.

AFFECTED FUNCTIONS

21 functions in instapy.py

story_by_user, story_by_tag

like_by_tags, follow_by_tags

follow_user_followers, follow_user_following

follow_likers, follow_commenters, follow_by_list

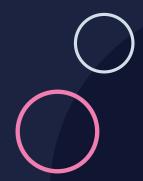
set_skip_users, set_ignore_users, set_dont_include

interact_by_users, interact_by_users_tagged_posts

interact_user_followers, interact_user_following

interact_by_comments, set_comments, set_comment_replies

set_mandatory_words, unfollow_users



STEPS FOLLOWED

STEP 1

Open an issue on GitHub suggesting adding the ability of using already-made lists of target values.

STEP 2

Request to be entrusted with the implementation suggested.



Insert target users, hashtags etc from text file #5396

① Open IreneArapogiorgi opened this issue 2 days ago · 3 comments



IreneArapogiorgi commented 2 days ago





Hello, I would like to contribute to InstaPy as part of a university course of mine, called Software Engineering in Practice, in which we are supposed to contribute to an open source project of our choice.

Expected Behavior

Amongst other feature ideas, I thought it would be useful for most users to have the ability to import a text file with their target users, hashtags etc. This implementation will especially benefit businesses using InstaPy as they could store users/hashtags etc in already-made target lists as text files and parse each one of them depending on their campaigns.

Current Behavior

For all existing functions accepting lists as given parameters, simple user is obliged to edit those lists inside the script, which complicates code comprehension & requires time.

Possible Solution

Implement the option of reading a text file for each function which accepts lists as given parameters.

I will be thrilled if you accept my upcoming contribution & I hope we'll have a great collaboration. PS: Any advice is more than welcomed.



breuerfelix commented 35 minutes ago

Collaborator



... I chose InstaPy for being well-written in Python ...

i don't know if i can sign this :D in germany we say 'Too many cooks spoil the broth.'. But yeah i guess that's the same for every big OS project :)

We already talked about your project. There is just one tip i got for you. Don't change the existing functions. Just program new functions which take a path to a list as a param, parse the list and pass the parsed list to the already existing function:) you can then also pass all other params to the existing function with *args and **kwargs. Just some suggestions that comes to my mind!



breuerfelix added enhancement Feature idea in progress and removed idea labels

34 minutes ago

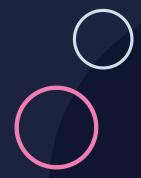
STEPS FOLLOWED

STEP 3

Build the project locally with pip install -e . & create a new branch to work on.

STEP 4

Try to interfere in the existing code simply by printing Hello world!



instapy.py

quickstart.py

```
""" Ouickstart script for InstaPy usage """
     # imports
     from instapy import InstaPy
     from instapy import smart run
     from instapy import set workspace
     # set workspace folder at desired location (default is at your home folder)
     set workspace(path=None)
10
     # login credentials
12
     insta username = 'your instagram username'
13
     insta password = 'your instagram password'
14
     # get an InstaPy session!
     session = InstaPy(username=insta username,
17
                       password=insta password,
18
                       headless browser=False)
19
20 ▼ with smart run(session):
         # general settings example
21
22
         # session.set dont include(["userX", "userY"])
24
         # activity example
25
         # session.like by tags(["hashtag"], amount=10)
         # call hello world & repr functions
         session.hello world()
         print(repr(session))
     # print Hello World
     print("Hello world!")
```



```
irene@LAPTOP-SL23CI1H MINGW64 ~/GitRepositories/Instaty (text file reading)
$ python quickstart.py
No any custom workspace provided. ~using existing.. new branch
InstaPy Version: 0.6.8
Workspace in use: "C:/Users/irene/InstaPy"
INFO [2020-04-08 14:53:00] [irene_arp] Session started!
INFO [2020-04-08 14:53:00] [irene arp] -- Connection Checklist [1/3] (Internet Connection Status)
INFO [2020-04-08 14:53:01] [irene arp] - Internet Connection Status: ok
INFO [2020-04-08 14:53:01] [irene arp] - Current IP is
                                                               and it's from "Greece/GR"
INFO [2020-04-08 14:53:01] [irene arp] -- Connection Checklist [2/3] (Instagram Server Status)
INFO [2020-04-08 14:53:09] [irene arp] - Instagram WebSite Status: Currently Up
INFO [2020-04-08 14:53:09] [irene arp] - Instagram Response Time: 139.162 ms
INFO [2020-04-08 14:53:09] [irene arp] - Instagram Reponse Code: 200
INFO [2020-04-08 14:53:09] [irene arp] - Instagram Server Status: ok
INFO [2020-04-08 14:53:09] [irene arp] -- Connection Checklist [3/3] (Hide Selenium Extension)
INFO [2020-04-08 14:53:09] [irene_arp] - window.navigator.webdriver response: True
WARNING [2020-04-08 14:53:09] [irene arp] - Hide Selenium Extension: error
Cookie file not found, creating cookie...
INFO [2020-04-08 14:53:33] [irene_arp] Logged in successfully!
INFO [2020-04-08 14:53:33] [irene arp] Saving account progress...
INFO [2020-04-08 14:53:49] [irene amo] Hello world!
Hello world!
INFO [2020-04-08 14:53:50] [irene arp] Sessional Live Report:
       > No any statistics to show
On session start was FOLLOWING 379 users & had 1397 FOLLOWERS
[Session lasted 57.24 seconds]
INFO [2020-04-08 14:53:50] [irene arp] Session ended!
Hello world!
```

STEPS FOLLOWED

STEP 5

Implement reading a text file inside quickstart.py.

STEP 6

Execute the script from the command line & check if it works.



```
""" Quickstart script for InstaPy usage """
     # imports
     from instapy import InstaPy
     from instapy import smart run
     from instapy import set workspace
     # set workspace folder at desired location (default is at your home folder)
     set workspace(path=None)
10
     # login credentials
11
     insta username = 'your instagram username'
     insta password = 'your instagram password'
13
14
     # get an InstaPy session!
15
16
     session = InstaPy(username=insta username,
17
                       password=insta password,
18
                       headless browser=False)
10
     # open and read text file
     with open("C:\\Users\\irene\\Desktop\\Uni\\Τεχνολογία Λογισμικού στην Πράξη\\InstaPy\\hashtags.txt", "r") as f:
22
23
         # extract file's lines in list
24
         elements = [line.strip("\n").strip().lower() for line in f.readlines() if line != "\n"]
26
     with smart run(session):
27
28
         # like posts based on hashtags
         session.like_by tags(elements, amd_int=11)
29
```

hashtags.txt

hashtags.txt x

photography
portrait
minimalistic

```
INFO [2020-04-09 17:54:05] [irene arp] Logged in successfully!
INFO [2020-04-09 17:54:05] [irene arp]
                                        Saving account progress...
INFO [2020-04-09 17:54:19] [irene arp]
                                        Tag [1/3]
                                        --> 6'photography
INFO [2020-04-09 17:54:19] [irene arp]
INFO [2020-04-09 17:54:29] [irene arp]
                                        desired amount: 11
                                                               top posts [disabled]: 9
                                                                                           possible posts: 549182362
INFO [2020-04-09 17:54:36] [irene arp]
                                        Like# [1/11]
INFO [2020-04-09 17:54:36] [irene arp]
                                       https://www.instagram.com/p/B-w6JWIA vC/
INFO [2020-04-09 18:02:08] [irene arp]
                                        Tag 2/3
INFO [2020-04-09 18:02:08] [irene arp]
                                          b'portrait
INFO [2020-04-09 18:02:17] [irene arp]
                                                               top posts [disabled]: 9 | possible posts: 116876942
INFO [2020-04-09 18:02:23] [irene arp]
                                        Like# [1/11]
INFO [2020-04-09 18:02:23] [irene arp]
                                       https://www.instagram.com/p/B-w7CX1A4VA/
INFO [2020-04-09 18:09:52] [irene arp]
                                        Tag [3/2
                                            ('minimalistic
INFO [2020-04-09 18:09:52] [irene arp]
                                                                top posts [disabled]: 9 | possible posts: 2864536
INFO [2020-04-09 18:10:01] [irene arp]
                                        desired amount: 11
INFO [2020-04-09 18:10:08] [irene arp]
                                        Like# [1/11]
INFO [2020-04-09 18:10:08] [irene arp]
                                        https://www.instagram.com/p/B-w73vYllmM/
```

STEPS FOLLOWED

STEP 7

Create a new function which handles text files & use it with all relevant functions.

STEP 8

Check functionality.



```
5929
           def file handling(self, file):
               """ Extracts text file's elements """
5930
5931
               elements = []
5932
5933
               try:
5934
                   with open(file, "r") as f:
5935
                       # extract file's lines in list
                       elements = [line.strip("\n").strip().lower() for line in f.readlines() if line != "\n"]
5936
5937
               except FileNotFoundError:
                   self.logger.warning("No such file or directory: " + file + "\n")
5938
5939
5940
               return elements
```

```
""" Quickstart script for InstaPy usage """
     # imports
     from instapy import InstaPy
     from instapy import smart run
     from instapy import set workspace
     # set workspace folder at desired location (default is at your home folder)
 8
     set workspace(path=None)
9
10
     # login credentials
11
12
     insta username = 'your instagram username'
13
     insta password = 'your instagram password'
14
     # get an InstaPy session!
15
     session = InstaPy(username=insta username,
16
17
                       password=insta password,
                       headless browser=False)
18
19
20
     with smart run(session):
21
22
         # like posts based on hashtags
         hashtags = session.file handling("C:\\Users\\irene\\Desktop\\Uni\\Τεχνολογία Λογισμικού στην Πράξη\\InstaPy\\hashtags.txt")
23
24
         session.like by tags(hashtags, amount=11)
```

```
INFO [2020-04-11 02:12:49] [irene_arp] Logged in successfully!

INFO [2020-04-11 02:12:49] [irene_arp] Saving account progress...

INFO [2020-04-11 02:13:05] [irene_arp] Tag [1/3]

INFO [2020-04-11 02:13:05] [irene_arp] --> b'photography'

INFO [2020-04-11 02:13:14] [irene_arp] desired amount: 10 | top posts [disabled]: 9 | possible posts: 549882764

INFO [2020-04-11 02:13:21] [irene_arp] Like# [1/10]

INFO [2020-04-11 02:13:21] [irene_arp] https://www.instagram.com/p/B-0YBI4FVJn/
```

Successful

```
INFO [2020-04-12 00:29:59] [sirynoir] Logged in successfully!

INFO [2020-04-12 00:29:59] [sirynoir] Saving account progress...

WARNING [2020-04-12 00:30:11] [sirynoir] No such file or directory: C:\Users\irene\Desktop\hashtags.txt
```

Unsuccessful

TO-DO NEXT

STEP 9

Run all necessary tests & make improvements.

STEP 10

Commit & push to local working branch, merge with master & make a pull request to the original repository.

STEP 11

Update documentation.



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Check if user's account is not private.

WHY THOUGH?

```
49
         # Get followers count
         followers_count, _ = get_relationship_counts(browser, username, logger)
51
52
         if grab != "full" and grab > followers count:
             logger.info(
                 "You have requested higher amount than existing followers count "
                 " ~gonna grab all available"
             grab = followers count
        # TO-DO: Check if user's account is not private
```

To-do comments inside get_followers & get_following functions in file relationship_tools.py

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Add comments on feed posts.

WHY THOUGH?

Missing feature/function of commenting on feed posts in file feed_util.py

```
""" Module that handles the like features """
from .util import update activity
from selenium.common.exceptions import NoSuchElementException
LIKE TAG CLASS = "coreSpriteHeartOpen"
def get like on feed(browser, amount):
        browser - the selenium browser element
        amount - total amount of likes to perform
       The function takes in the total amount of likes to perform
        and then sends buttons to be liked, if it has run out of like
       buttons it will perform a scroll
```

