Faculty of Engineering & Applied Science

OntarioTech
UNIVERSITY

SOFE-3980U
Software Quality

Project Progress Report

Group#: 18

Section CRN#:73385

Due Date: March 16th, 2022

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(3 Marks) A progress report with the **snapshots of preliminary experiments** needs to be submitted by March 16th. At this stage the **project can be changed** upon **providing explanations** with results **why the initial choice on project was not right**. The reasons need to be **properly justified** in the report.

We are changing our initial project to INSTAPY from Brave Browser. After finishing the proposal, and when we started working on the progress report to do some experiments of the snapshot, we realized that it was inoperative for us. Furthermore, the complexity of the application is high and time was lacking. For example, the source code for the Brave Browser consists of four different programming languages (C++, Python, Swift, and Javascript). Since most of our group members had not worked with or had little experience with Swift, it would have been difficult and would have taken a great amount of time to complete the project. So our group collectively decided that it would be best to not continue the current project.

Plus, the thing we described in the proposal that we would change for example adding a sidebar to a Whatsapp web. This would have taken a lot of our time to figure out what to do and how to do. Hence, there weren't lots of things in the Brave Browser that we could have done or worked on for our project, so we decided to change our project to InstaPy.

InstaPy is an automation tool for instagram that allows users to simulate interactions such as liking posts, commenting, and following people all of which can prove to be pretty useful in growing an instagram account. It's open source and is python based , so we will have the opportunity to work on our python skills as we implement improvements.

In our new project on InstaPy, the things we need to implement is that we need to make it a good User Interface (UI) and security for ease of use by users. i.e, the software needs to get signed in by third-party app permissions.

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We have been looking into the code files thoroughly and found many defects and low quality of the software. The one thing is that, they have not been really clear to the users how the software should be used. Well by users we mean the normal people who do not understand programming and just want to start the program, so we aim to make it user friendly. Here are some problems for running the program:

1) Here is what they said to do for installing and running the program:
   a) First step

```
pip install instapy
```

Important: depending on your system, make sure to use `pip3` and `python3` instead.

That's it! 🚀

   b) Second Step

Running Instapy

To run InstaPy, you'll need to run the **quickstart** script you've just downloaded.

- Here is the easiest **quickstart** script you can use
- And here you can find lots of sophisticated **quickstart** templates shared by the community!

You can put in your account details now by passing the username and password parameters to the `InstaPy()` function in your **quickstart** script, like so:

```
InstaPy(username="abcd",
        password="1234")
```

   c) Alternative Step

Or you can pass them using the Command Line Interface (CLI).

Once you have your **quickstart** script configured you can execute the script with the following commands.

```
python quickstart.py
-- or
python quickstart.py --username abcd --password 1234
```

InstaPy will now open a browser window and start working.

> If want InstaPy to run in the background pass the `--headless-browser` option when running from the CLI
> Or add the `headless_browser=True` parameter to the `InstaPy(headless_browser=True)` constructor.

2) Doing their process:
   a) Installing instapy

```
C:\Users\Saro>pip3 install instapy

Successfully installed
```
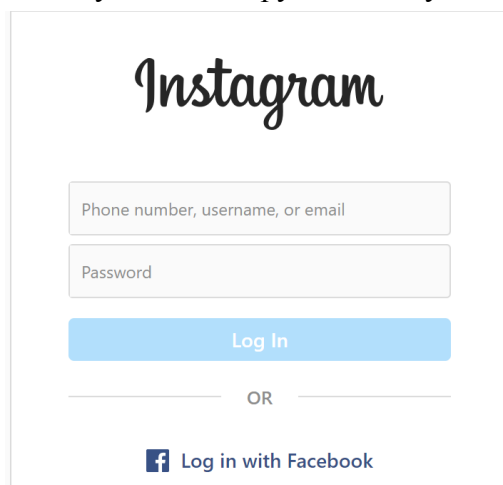
   b) Failing the process in the first try

```
C:\Users\Saro\OneDrive\Desktop>python quickstart.py
._. ._. ._. ._. ._. ._. ._. ._. ._. ._. ._.
No any custom workspace provided.      ~using existing..
InstaPy Version: 0.6.16
._. ._. ._. ._. ._. ._. ._. ._. ._.
Workspace in use: "C:/Users/Saro/InstaPy"
WARNING [2022-03-16 21:06:47] [None]  Heeh! Error occurred while getting a DB profile for 'None':
        b'NOT NULL constraint failed: profiles.name'
Traceback (most recent call last):
  File "quickstart.py", line 13, in <module>
    session = InstaPy()
  File "C:\Users\Saro\AppData\Local\Programs\Python\Python38-32\lib\site-packages\instapy\instapy.py", line 327, in __i
nit__
    get_database(make=True)  # IMPORTANT: think twice before relocating
  File "C:\Users\Saro\AppData\Local\Programs\Python\Python38-32\lib\site-packages\instapy\database_engine.py", line 66,
 in get_database
    get_profile(name, address, logger) if profile_id is None or make else profile_id
  File "C:\Users\Saro\AppData\Local\Programs\Python\Python38-32\lib\site-packages\instapy\database_engine.py", line 167
, in get_profile
    profile = dict(profile)
TypeError: 'NoneType' object is not iterable
```

So as you can see the file needs changing and that is only doable if someone knows python programming.

For this problem they have provided an example of the quickstart.py file which is not really user friendly and hard to understand for non-developers.

So, what we want to do is develop a UI for this software so instead of using coding to run the software, users will be able to run the software by double clicking a file named "InstaPyExecutable.py". This way the user will see a UI like this:

Moreover, there will be different functions in the UI so the users can change the settings easier.

We have not coded the UI because we tried to analyze the software thoroughly. We have finished designing the UI and finalized everything to start coding the UI.

Link for our Repository:
https://github.com/TirthPatel3/Group_18_InstaPy_Improved

Link for InstaPy Repository:
https://github.com/InstaPy/InstaPy