TEN WhatsApp ChatBot

The TEN WhatsApp ChatBot is currently in it's initial stage of development, it has fulfilled the first requirement of the TEN Group ie, Message Blasting to Multiple Groups/Contacts and Creating New Groups and adding members to those groups. The Automation Script runs on CLI designed on Python 3.7.x.

Functionalities:

The Automation Project has basically 4 functionalities:

1. It sends Text Message to the targets (Groups/Contacts).
2. It sends 1 Media (Image/GIF/Video) file to the targets.
3. It sends 1 Document (txt/docx/pdf) file to the targets.
4. It can schedule your message for a specific time in 24hr format (HH:MM).

The script can perform all four tasks in one go, however it can me manipulated by the use to do any of the 4 as per requirement, for instance user may send only text, both text and media and all three text, media and document.

Work Flow:

The Script uses Selenium that automates the browser and PyAutoIt that allows to browse and select between the files the local environment.
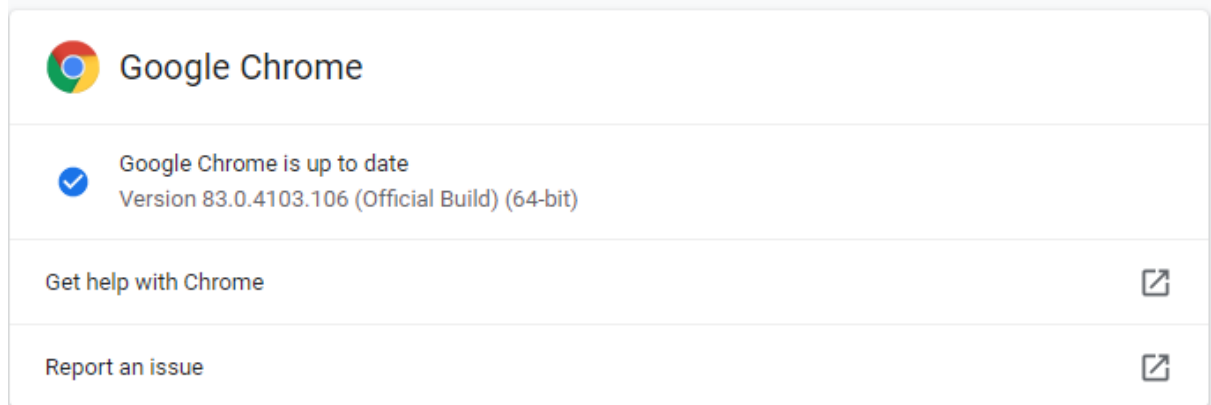
1. Selecting Contacts:
   The program grabs the contact name from a *contact_info.csv* file using pandas, it picks the contacts/group names from that file it must be in a format like this:

   The names should be encapsulated between double quotes because that's how WhatsApp stores and saves contacts.

2. The program will grab media files from a directory named *Media* that is located in the same directory as of the script. It will only send the first file in that *Media* directory.
3. The program will grab document files from a directory named *Documents* that is located in the same directory as of the script. It will only send the first file in that *Documents* directory.

4. User can select whether he wants to send the attachments or not.

5. The code works only with chrome write now so the user must have *Chrome 82.x* + installed onto his local environment. *For that specific Chrome version the user has to Download the required chrome driver for successfully operating automation using Selenium. Chrome Driver* can be downloaded from here. There are Different *Chrome Drivers* from different versions of *Chrome,* in account of that user has to download the compatible version of *Chrome Driver.* To check the running version of *Chrome* → Open *Chrome* → Customize and control Google Chrome (span menu) → Help → About Google Chrome.

The Chrome Driver Should be in the same directory as of the code. It's in compressed format so one has to extract it to the code directory.
6. Above Things have to be Done Run the ChatBot/Blaster.

Dependecies:

Recommended IDEs: Spyder, PyCharm.

Python Environment Extension/Libraries:

$**pip install schedule**

$**pip install selenium**

$**pip install PyAutoIt**

WebDriver: ChromeDriver, Download.

Python Version: 3.x

Following Things needs to be saved in the same Directory:

Documents	22-06-2020 16:12	File folder	
Media	22-06-2020 16:12	File folder	
chromedriver.exe	01-05-2020 17:56	Application	8,666 KB
contact_info.csv	22-06-2020 15:17	Microsoft Excel C...	1 KB
TEN_Bot(first deploy).py	22-06-2020 14:37	JetBrains PyChar...	5 KB
whatsapp_utilities.py	22-06-2020 14:37	JetBrains PyChar...	6 KB

New Patch Update

Now Group Creation Task is also implemented successfully. There are 2 new files dependencies with the Group Creation

1. WhatsAppGroup.py
2. Group_contact.csv

WhatsAppGroup is the library to create new groups and the group_contact.csv stores and grabs info of contact that are to be added in the new created group.

These Files should now be in the same directory.

Bugs and Issue:

1. Fails to send Attachments to the first target, however sends the text message correctly. (Fixed)
2. Browser has to be manually closed after task is done. (Fixed)
3. Two or more WebDrivers running simultaneously is not supported
4. Can't search the Contacts that has never been texted before. (Fixed)
5. Can't send Emojis above emoji v1.1. with 4 BMP numeral emojis (ex: U+2764, heart emoji)
6. While Scheduling the Message Delivery, "Task Completed" message pops before the task completion.
7. Doesn't Append the Created New Groups to permanent contact list, new groups can be used to deliver massage during the runtime, during the re-run previously created groups are no more accessible.
8. Multiple Images and Documents can't be delivered in one go, only 1 image or document is delivered in one go.

Future Patch Targets:

1. Fix of all Bugs and Issues.
2. Can text to unsaved contacts as well.
3. Group Creation and adding members. (Implemented)
4. Sending Multiple Images and Documents at Once. Currently only send 1 media and 1 documents that is at the first place in the directory
5. User can set time delay between messages.
6. Automatic revert of Basic Queries.

__For any Queries and Bug Report Revert back to the Contributors__

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