

PROJECT REPORT

On

“Title of Project”

Reddit Bot by using API in Python Programming

Submitted By

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(An Autonomous Institute, Affiliated to RTMNU, Nagpur)

2021-2022

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**S.B. JAIN INSTITUTE OF TECHNOLOGY MANAGEMENT AND
RESEARCH, NAGPUR**

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SESSION 2021-2022

CERTIFICATE

This is to certify that the Project titled **“Reddit Bot by using API in Python Programming”** is a bonafide work of **Tanishq Vijay Sakhare** carried out for the partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering in **Computer Science & Engineering**.

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CHAPTER 1

INTRODUCTION

Reddit Bot

A Reddit Bot is a program that can analyze comments, posts and others users actions respond them.

For e.g. You can create a Reddit Bot that scans all the comments in the community (r/funny), one of the largest subreddits.



FIG 1.1 REDDIT BOTS

Reddit Account:

A Reddit account is required to access Reddit's API. Create one at Reddit.

Client ID & Client Secret:

These two values are needed to access Reddit's API as a script application (see Authenticating via OAuth for other application types). If you don't already have a client ID and client secret, follow Reddit's First Steps Guide to create them.

User-Agent:

A user agent is a unique identifier that helps Reddit determine the source of network requests. To use Reddit's API, you need a unique and descriptive user agent. The recommended format is <platform>:<app ID>:<version string> (by u/<Reddit username>). For example, android:com.example.myredditapp:v1.2.3 (by u/kemitcher). Read more about user agents at Reddit's API wiki page.

Create an Application while using Reddit.



The screenshot shows the 'create application' form on the Reddit website. At the top, it says 'create application' and includes a note: 'Please read the API usage guidelines before creating your application. After creating, you will be required to register for production API use.' The form has several fields: 'name' with a text input and a red 'x' icon; three radio buttons for 'web app', 'installed app', and 'script' (the 'script' option is selected); a 'description' text area; an 'about url' text input; and a 'redirect uri' text input with the value 'http://127.0.0.1'. At the bottom, there is a 'create app' button and a message 'application created'.

FIG 1.2 CREATE AN APPLICATION IN REDDIT

I want to build this project i.e. **“Reddit Bot by using API in Python Programming”**, we use

some applications like various tools of that particular packages in python. Now, I build that program so following perform actions :

- First, we have to download python in update/ latest version.
- Then, we have to install python in “praw” package i.e. (pip install praw) .
- So, ready for that package now you have to check and run IDLE (import praw) .
- To run this python program on VS Code.

To Develop Application in Reddit.



FIG 1.3 TO DEVELOP AN APPLICATION IN REDDIT

CHAPTER 2

METHODOLOGY

Methodology (Reddit Bot by using API in Python Programminmg) .

Now, to import praw and next to initialize values like Client id, Client secret, username, password and user agent. So, we have to create reddit instance (praw.Reddit) then find topmost submission in subreddit (reddit.subreddit). By using for loop conditions of that particular displays the title, score, id and url and then print them. Comment on known submission (reddit.submission), Similarly comment on id (reddit.comment) and then print them score before and after downvoting.

```
15 # The URL prefix for regular requests.
16 reddit_url=https://www.reddit.com
17
18 # The URL prefix for short URLs.
19 short_url=https://redd.it
20
21 [bot]
22 client_id=
23 client_secret=
24 password=
25 username=
26 user_agent=
```

FIG 2.1 FORMATE OF REDDIT BOT BY USING API

CHAPTER 3

TOOLS/PLATFORMS

A collection of tools that utilize PRAW. Two current tools are `modutils` a program useful to subreddit moderators, and `subreddit_stats`, a tool to compute submission / comment statistics for a subreddit.

[r.dogdog](#)

A website that displays reddit stories under the guise of Python or Java code.

[reddit Notifier](#)

Integrates with Unity and Gnome Shell to display new reddit mail as it arrives.

[Link Unscripter](#)

A bot for replying to posts <and comments, eventually> that contain javascript-required links to provide non-javascript alternatives.

[ClockStalker](#)

Examines a redditor's posting history and creates [a comment with a nice activity overview](#). ClockStalker uses an older version of PRAW, the `reddit` module. It should, but may not, work with the latest version of PRAW.

Butcher bot

Handles routine tasks on [r/Diablo](#) such as the removal of images/memes and bandwagon-esque titles.

r/diablo flair infographic generator

Creates beautiful [infographics](#).

Groompbot by [u/AndrewNeo](#)

Posts new videos from YouTube to a subreddit.

newsfrbot

Parses RSS feeds from some major french publications and posts them to relevant subreddits.

reddit-modbot

A relatively lightweight script for automating reddit moderating tasks. It was written as a simpler alternative to [AutoModerator](#) by Deimos.

reddit-giveaway-bot

A bot that automatically manages giveaway. One feature gives out product keys to the first N commenters.

DailyProgBot

A simple challenge-queue submission bot for [r/DailyProgrammer](#). Users submit challenges through a Google Documents form, then the bot crawls said form, posting the appropriate challenge on the appropriate day of the week.

VideoLinkBot

A bot that aggregates video links in a response comment where multiple videos links appear in reply to a submission (uses a slightly out-of-date version of PRAW, currently requires `Submission.all_comments_flat`).

reddit-analysis

Scrapes a specific subreddit or user and prints out all of the commonly-used words in the past month. Contains a data file containing a list of words that should be considered common.

AlienFeed

AlienFeed is a command line application made for displaying and interacting with reddit submissions. The client can return a list containing the top submissions in a subreddit, and even open the links up if you'd like.

ALTcointip

ALTcointip bot allows redditors to gift (tip) various cryptocurrencies (Litecoin, PPCoin, Namecoin, etc) to each other as a way of saying thanks.

RedditAgain

Migrate an old reddit account to a new one. Backs up existing content and submissions, and copies subscriptions to a new account.

[reddit-cloud](#)

Generates word clouds for submissions (or users), posts them to Imgur and the URL to reddit. It's what I run on [u/WordCloudBot2](#).

[Reddit-to-Diigo-Copier](#)

Copies your reddit saved links to a Diigo account of your choice. Makes use of PRAW and the Diigo API.

[NetflixBot](#)

Parses comments for calls and determines if a movie is available for streaming on Netflix. Makes use of PRAW and the NetflixRouletteAPI. Run on [u/NetflixBot](#).

[RemindMeBot](#)

Called upon with the `RemindMeBot!` command on any subreddit, the user is able to set a reminder for themselves about the current thread or comment. The bot will then send them a private message with the date they specified. [u/RemindMeBot](#).

[RedditRover](#)

A plugin based Reddit Multi Bot Framework intended for new and advanced programmers to host a wide variety of Reddit bots without mangling with all the ins and outs of Reddit, PRAW and API limitations.

Reddit Keyword Tracking Bot

<requires Kivy> A bot that will watch any subreddits and email you with updates when it finds words that matter to you. settings are configured via a GUI making it easy for people who don't know how to edit python scripts.

Reddit-Paper

Command line interface program that will download the top 5 images from r/earthporn, r/spaceporn, etc. and set them as the computer's wallpaper. Currently only tested and used on Ubuntu, but more OS's coming soon.

QR Codify

Fetches username mentions and converts the comment data into a QR code. The code is then posted via ASCII characters as a followup comment.

EVE Killmail Reddit Bot

Searches for comments in /r/eve that contain zkillboard killmail links. Then replies to comments with web-scraped TL;DR of the information.

ButtsBot

A silly bot that posts a picture of a (clothed) butt from the Astros team whenever somebody in the /r/Astros subreddit uses any of a few certain keywords in a comment.

GoodReads Bot

A bot which powers [/u/goodreadsbot](#) on Reddit, posts information of a book whenever someone posts a link to Goodreads.

Self-Destruct Bot

Removes posts after a specified amount of time. (For time-sensitive posts.)

Subtitle Bot

Finds youtube links and see if closed captioning (aka subtitle) is available. Formats subtitle into paragraphs based on standard deviation of timestamp gaps. If subtitle is longer than Reddit comment limit, puts it in Pastebin.

Reddit Countdown

Implements a countdown in a subreddit's sidebar to help Reddit communities count down to important events.

chattR

Quantitatively analyzes the sophistication-level and polarity/subjectivity of conversation in a subreddit using the Flesch-Kincaid Reading Level Algorithm.

CHAPTER 4

DESIGN & IMPLEMENTATION

4.1 ALGORITHM

Step 1: Start the program.

Step 2: First, we need to download python on latest version.

Step 3: Then, we have to install “praw” package by using pip command
(pip install praw) .

Step 4: Now, initialize the values like client id, client secret, username, password
and user agent.

Step 5: To create an authorized reddit instance (praw.Reddit) .

Step 6: We need to find topmost submission in subreddit (reddit.subreddit) .

Step 7: According to for loop conditions we have to displays the titles, score, id
and url.

Step 8: Print them on particular displays.

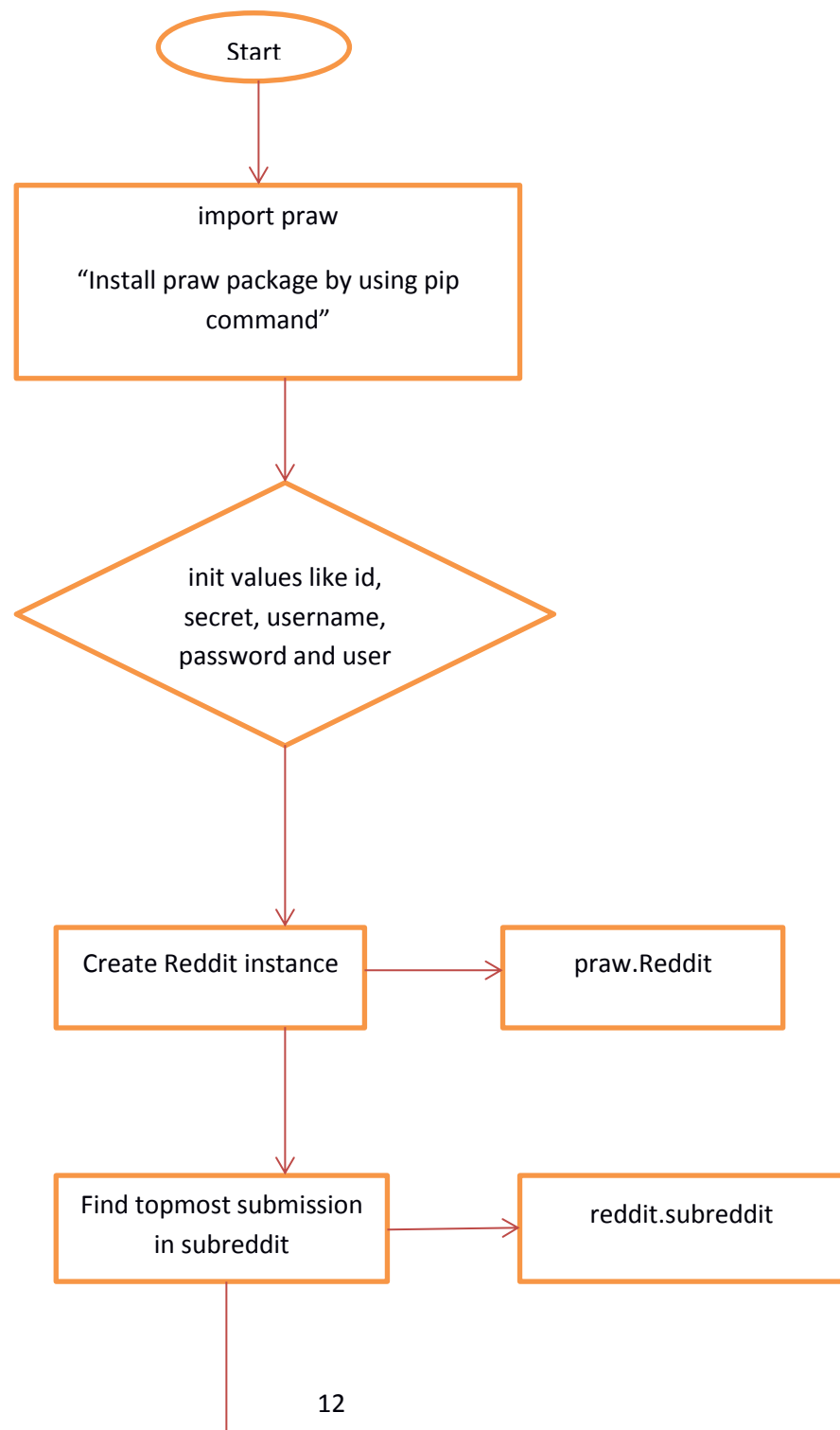
Step 9: Now, comment on known submission (reddit.submission) .

Step 10: Then, comment on id (reddit.comment) .

Step 12: Lastly, print them score before and after downvoting.

Step 13: Stop.

4.2 FLOWCHART



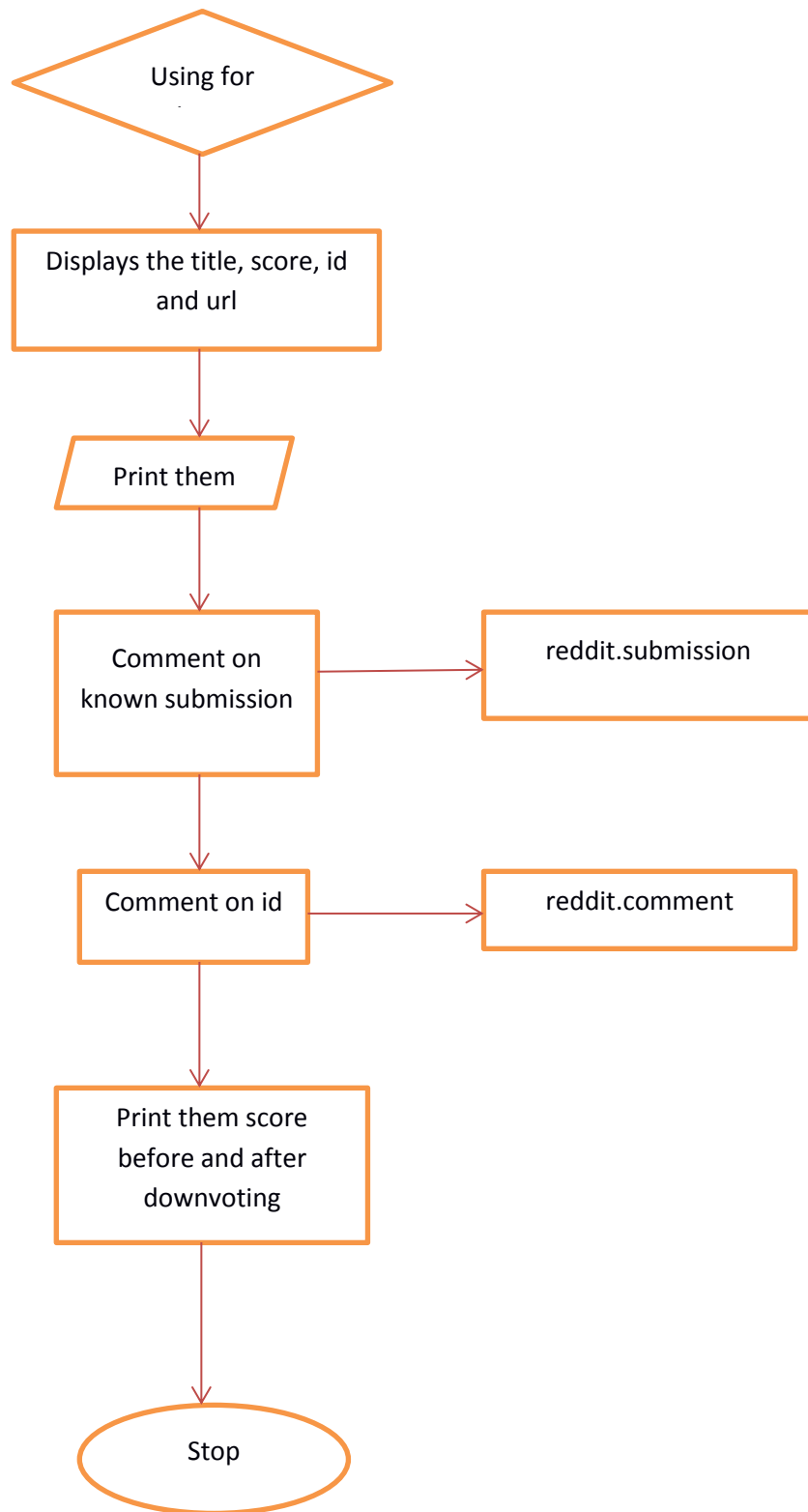


FIG 4.2.1 FLOWCHART

4.3 SOURCE CODE

```
# importing the module
import praw

# initialize with appropriate values
client_id = ""
client_secret = ""
username = ""
password = ""
user_agent = ""

# creating an authorized reddit instance
reddit = praw.Reddit(client_id = "qm9HMn3ZmWASDuqY2HrxOA",
                     client_secret = "935gjE5RvEwxNI371o6tQt1BEkbtAQ",
                     username = "Sak-Tanishq0910",
                     password = "tanishq@0910",
                     user_agent = '<console:name:version (by /u/Sak-Tanishq0910)>')

# to find the top most submission in the subreddit "Programmer"
subreddit = reddit.subreddit('Programmer')
for submission in subreddit.top(limit = 25):
    # displays the submission title
    print(submission.title)
    # displays the net upvotes of the submission
    print(submission.score)
```

```
# displays the submission's ID
print(submission.id)

# displays the url of the submission
print(submission.url)


# Comment on a known submission
submission = reddit.submission(url="https://www.reddit.com/comments/5e1az9")
submission.reply("Good")


# the ID of the comment
comment_id = "fvib7aw"


# instantiating the Comment class
comment = reddit.comment(comment_id)


comment = reddit.comment(comment_id)
print("Score before downvoting : " + str(comment.score))

# downvoting the comment
comment.downvote()

print("Score after downvoting : " + str(comment.score))
```

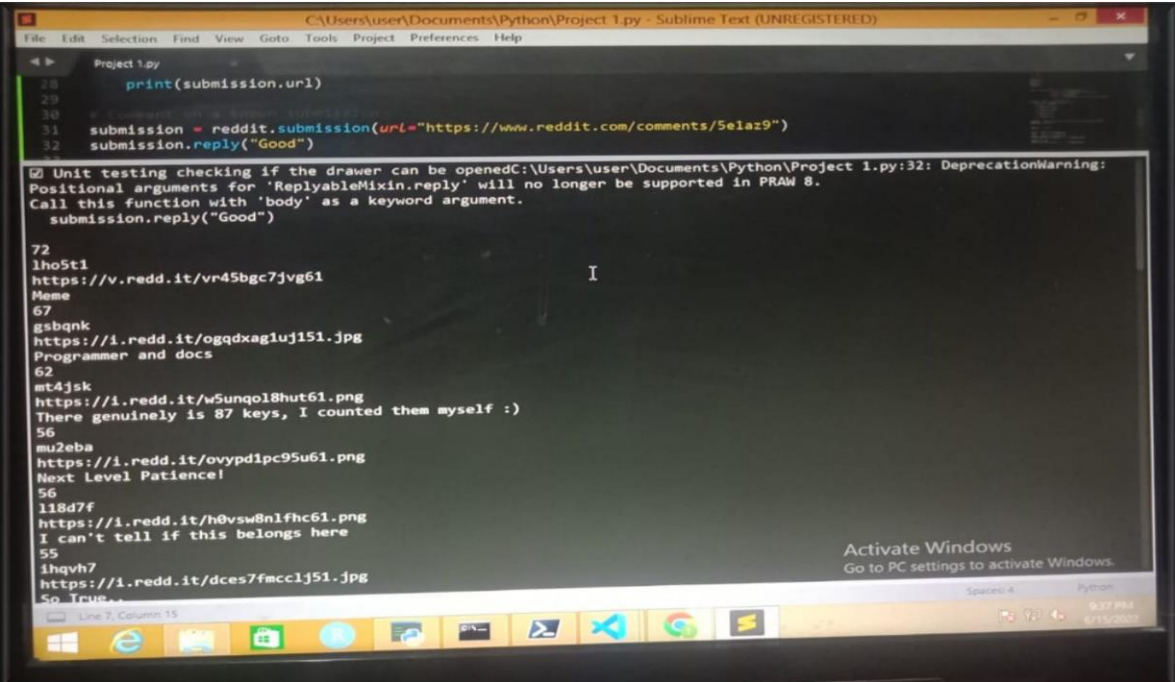
```
CAUsers\user\Documents\Python\Project 1.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

Project 1.py
1 # importing the module
2 import praw
3
4 # initialize with appropriate values
5 client_id = ""
6 client_secret = ""
7 username = ""
8 password = ""
9 user_agent = ""
10
11 # creating an authorized reddit instance
12 reddit = praw.Reddit(client_id = "qm9HMn3ZmkWASDuqY2HrxOA",
13                      client_secret = "935gjE5RvEwxNI371o6tQt1BEkbtAQ",
14                      username = "Sak-Tanishq0910",
15                      password = "tanishq0910",
16                      user_agent = '<console:name:version (by /u/Sak-Tanishq0910)>')
17
18 # to find the top most submission in the subreddit "Programmer"
19 subreddit = reddit.subreddit('Programmer')
20 for submission in subreddit.top(limit = 25):
21     # displays the submission title
22     print(submission.title)
23     # displays the net upvotes of the submission
24     print(submission.score)
25     # displays the submission's ID
26     print(submission.id)
27     # displays the url of the submission
28     print(submission.url)
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CHAPTER 5

RESULT & DISCUSSION

5.1 OUTPUT



The screenshot shows a Sublime Text editor window titled "C:\Users\user\Documents\Python\Project 1.py - Sublime Text (UNREGISTERED)". The editor displays a Python script with the following code:

```
28 print(submission.url)
29
30
31 submission = reddit.submission(url="https://www.reddit.com/comments/5elaz9")
32 submission.reply("Good")
```

Below the code, the output of the script is displayed. It includes a deprecation warning and a list of Reddit submissions with their URLs and titles:

```
Unit testing checking if the drawer can be openedC:\Users\user\Documents\Python\Project 1.py:32: DeprecationWarning:
Positional arguments for 'ReplyableMixin.reply' will no longer be supported in PRAW 8.
Call this function with 'body' as a keyword argument.
  submission.reply("Good")

72
lho5t1
https://v.redd.it/vr45bgc7jvg61
Meme
67
gsbqnk
https://i.redd.it/ogqdxag1uj151.jpg
Programmer and docs
62
mt4jsk
https://i.redd.it/w5unqol8hut61.png
There genuinely is 87 keys, I counted them myself :)
56
mu2eba
https://i.redd.it/ovypd1pc95u61.png
Next Level Patience!
56
l18d7f
https://i.redd.it/h0vsw8nlfhc61.png
I can't tell if this belongs here
55
ihqvh7
https://i.redd.it/dces7fmcc1j51.jpg
So True...
```

The Windows taskbar is visible at the bottom, showing the Start button and several application icons. The system tray on the right indicates the date and time as 9:17 PM on 6/13/2017.

```
File Edit Selection Find View Goto Tools Project Preferences Help
Project 1.py
28 print(submission.url)
29
30
31 submission = reddit.submission(url="https://www.reddit.com/comments/5elaz9")
32 submission.reply("Good")
33
34 I can't tell if this belongs here
35
36 lhqvh7
37 https://i.redd.it/dces7fmcc1j51.jpg
38 So True..
39
40 gfaxz8h
41 https://i.redd.it/5ym749fzxkx41.png
42 true bro
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44 ifpm14
45 https://i.redd.it/bg1io8huiyi51.jpg
46 FU*K
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48 ipc7gs
49 https://i.redd.it/aoc7b8s133m51.jpg
50 hahaa
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52 hhgnfa
53 https://i.redd.it/y96jvjun9o751.jpg
54 Use the source - corollary
55
56 l66syd
57 https://i.redd.it/e51d44u58wd61.jpg
58 There Exist Several Types of Headaches but Only IT People Get's the 4th One
59
60 idv687
61 https://i.redd.it/us1ihmd8fc151.png
62 yo
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Activate Windows
Go to PC settings to activate Windows

```
File Edit Selection Find View Goto Tools Project Preferences Help
Project 1.py
28 print(submission.url)
29
30
31 submission = reddit.submission(url="https://www.reddit.com/comments/5elaz9")
32 submission.reply("Good")
33
34 There Exist Several Types of Headaches but Only IT People Get's the 4th One
35
36 idv687
37 https://i.redd.it/us1ihmd8fc151.png
38 yo
39
40 hojb0h
41 https://i.redd.it/f5yk03mnuy951.jpg
42 Do people even read this part?
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44 igu522
45 https://i.redd.it/vqaeuk1zoaj51.jpg
46 ya
47
48 hhvc4x
49 https://i.redd.it/k2m8a7gcvs751.jpg
50 It's the Art of Searching on Google | Tested and Verified by Thousands of Programmers
51
52 huiq91
53 https://i.redd.it/nhn80mmjkzb51.png
54 awesome
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56 hk0ahx
57 https://i.redd.it/3jikesvcef851.jpg
58 top
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60 if35zo
61 https://i.redd.it/wmn07zg67r151.jpg
62 We don't burn calories. We burn bugs.
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Activate Windows
Go to PC settings to activate Windows


```
CAUsers\User\Documents\Python\Project 1.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

Project 1.py
18 print(submission.url)
19
20
21 submission = reddit.submission(url="https://www.reddit.com/comments/5elaz9")
22 submission.reply("Good")

https://i.redd.it/wam07zg67ri51.jpg
We don't burn calories. We burn bugs 🐛🐛🐛
38
n92g9r
https://i.redd.it/y92i5ilw5ay61.jpg
Just my daily motto
41
n4rv0t
https://i.redd.it/zp9kq8mw94x61.png
I
awesome
39
hqwez2
https://i.redd.it/0zynqo68ora51.jpg
The burnout is real. How do you guys usually rest after a tough shift?
37
n172cz
https://i.redd.it/qfkyklx7k4w61.png
It's how they edit Norse code.
37
mrn3x8
https://i.redd.it/2or1osco8et61.jpg
oooo
39
j1zm6b
https://i.redd.it/bvpbq1qld3q51.jpg
wtf
35
hj4pcc
https://i.redd.it/3o8tmlams6851.jpg

Activate Windows
Go to PC settings to activate Windows
```

```
CAUsers\User\Documents\Python\Project 1.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

Project 1.py
18 print(submission.url)
19
20
21 submission = reddit.submission(url="https://www.reddit.com/comments/5elaz9")
22 submission.reply("Good")

n92g9r
https://i.redd.it/y92i5ilw5ay61.jpg
Just my daily motto
41
n4rv0t
https://i.redd.it/zp9kq8mw94x61.png
awesome
39
hqwez2
https://i.redd.it/0zynqo68ora51.jpg
The burnout is real. How do you guys usually rest after a tough shift?
37
n172cz
https://i.redd.it/qfkyklx7k4w61.png
It's how they edit Norse code.
37
mrn3x8
https://i.redd.it/2or1osco8et61.jpg
oooo
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j1zm6b
https://i.redd.it/bvpbq1qld3q51.jpg
wtf
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hj4pcc
https://i.redd.it/3o8tmlams6851.jpg
Score before downvoting : 119
Score after downvoting : 119
[Finished in 50.4s]

Activate Windows
Go to PC settings to activate
```

5.2 DISCUSSION

Reddit is one of the biggest social news aggregation in United states. All the members can post about anything in related subreddit. If you are having a product which lots of people are using then getting to know what they are feeling about the product is really important. Social media platforms like facebook, Twitter, reddit etc. are one of the most widely used by people. Reddit is also a discussion forum where people can talk and discuss about anything. Almost all products whether its microsoft Azure or AWS are having their subreddits on which they communicate with their users. So, What if you want to know about the sentiments of users and get all the negative headlines from a subreddit so that you can improve the product accordingly or if you want to interact with user in real time. Here I will be explaining that how you can get notification in slack with the URL link of the headlines if any user is starting a negative discussion about a product related to you in real time.

Lets start ...

1.) First we need few details like below which can be created by going on twitter and follow the instruction
on <https://redditclient.readthedocs.io/en/latest/oauth/>
you can use your own reddit account for that there is not need of using official vivox account and i am not aware if we even have any official reddit account or not.

client_id='client_id', \

client_secret='client_secret', \

user_agent='user_agent', \

username='username', \

password='password'

2.) we need some libraries to set up the whole process. So, please install the below libraries into your environment:-

```
1  import praw
2  import pandas as pd
3  import datetime as dt
4  import datetime
5  from datetime import timezone
6  import re
7  from credentials import *
8  import sys
9  from influxdb import InfluxDBClient
10 from slacker import Slacker
```

Hint: double-click to select code

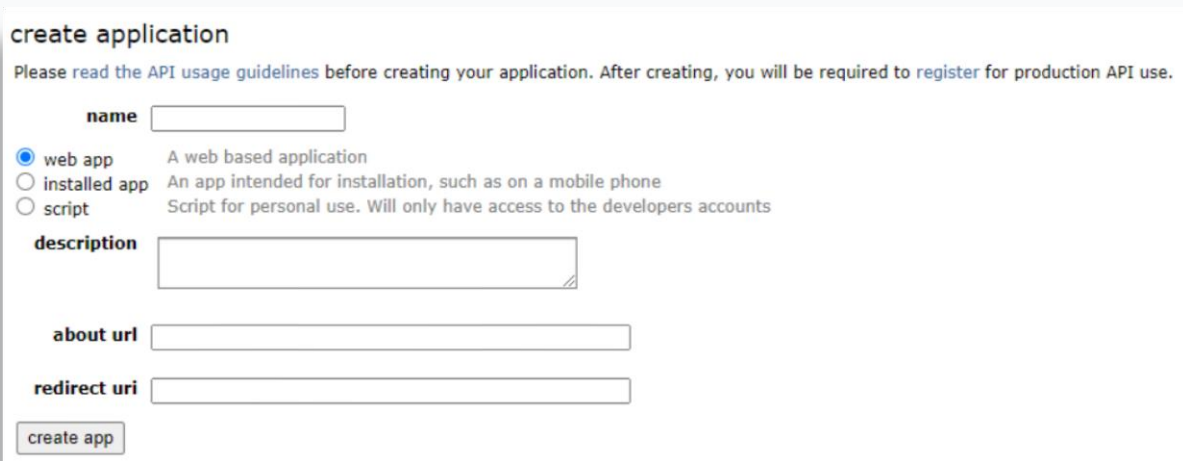
3.)After that we will setup the reddit with praw method as praw is the api to interact with reddit data. if you want to read more about praw please go here <https://praw.readthedocs.io/en/latest/>.

```
1 reddit = praw.Reddit(client_id=' ', \
2                       client_secret=' ', \
3                       user_agent=' ', \
4                       username=' ', \
5                       password='')
```

5.3 APPLICATION

Create an application

Go to Reddit and create application:



The screenshot shows the 'create application' form on the Reddit website. At the top, it says 'create application' and includes a note: 'Please read the API usage guidelines before creating your application. After creating, you will be required to register for production API use.' The form has several fields: 'name' (a text input), 'description' (a text area), 'about url' (a text input), and 'redirect uri' (a text input). Below the 'name' field, there are three radio button options: 'web app' (selected), 'installed app', and 'script'. Each option has a brief description: 'A web based application', 'An app intended for installation, such as on a mobile phone', and 'Script for personal use. Will only have access to the developers accounts' respectively. At the bottom left of the form is a 'create app' button.

- Type name for your application and select “script” option.
- In ‘redirect uri’ type any random link.
- Click the “Create app” button.

Take a look at the “Personal Use Script” and “Secret”. Note them, we will need this data in next steps.

Write Python code for our Bot

Next we need to download a library for Python by pip manager – Python Reddit API Wrapper.

```
pip install praw
```

Type “**pip install praw**”.

Or install the latest version:

```
pip install --upgrade https://github.com/praw-dev/praw/archive/master.zip
```

Note: The Reddit API has a rate limit of 30 requests per minute, but you can still make quite a bit with this. The PRAW also dynamically handles the rate limiting for you and attempts to be efficient, so you won't have to worry about crossing the line, but you might wonder regardless why things might not be going as quick as you expect.

To instantiate an instance of PRAW:

```
1 import praw
2 reddit = praw.Reddit(client_id="CLIENT_ID", client_secret="CLIENT_SECRET",
3                       password="PASSWORD", user_agent="USERAGENT",
4                       username="USERNAME")
5
```

```
import praw

reddit = praw.Reddit(client_id="CLIENT_ID",
client_secret="CLIENT_SECRET",
password="PASSWORD", user_agent="USERAGENT",
username="USERNAME")
```

With the reddit instance you can then interact with Reddit by different ways:

```
6  # Create a submission to r/test
7  reddit.subreddit("test").submit("Test Submission", url="https://reddit.com")
8
9  # Comment on a known submission
10 submission = reddit.submission(url="https://www.reddit.com/comments/5e1az9")
11 submission.reply("Super rad!")
12
13 # Reply to the first comment of a weekly top thread of a moderated community
14 submission = next(reddit.subreddit("mod").top("week"))
15 submission.comments[0].reply("An automated reply")
16
17 # Output score for the first 256 items on the frontpage
18 for submission in reddit.front.hot(limit=256):
19     print(submission.score)
20
21 # Obtain the moderator listing for r/redditdev
22 for moderator in reddit.subreddit("redditdev").moderator():
23     print(moderator)
```

Create a submission to r/test

```
reddit.subreddit("test").submit("Test Submission",
url="https://reddit.com")
```

Comment on a known submission

```
submission =
reddit.submission(url="https://www.reddit.com/comments/5e1az9")
submission.reply("Super rad!")
```

Reply to the first comment of a weekly top thread of a moderated community

```
submission = next(reddit.subreddit("mod").top("week"))  
submission.comments[0].reply("An automated reply")
```

Output score for the first 256 items on the frontpage

```
for submission in reddit.front.hot(limit=256):  
    print(submission.score)
```

CHAPTER 6

CONCLUSION

We have designed and developed a Reddit Bot by using API in Python Programming which provides an information of that particular sector.

We have used modern tools like Arduino IDLE and hardware components like Some packages like “praw” and install through pip command.

During the development of the project we have applied professional ethics and we understood the importance of individual while project management. While showcasing our project through various seminars, we enhanced our communication skills and displayed professional ethics which results in lifelong learning.

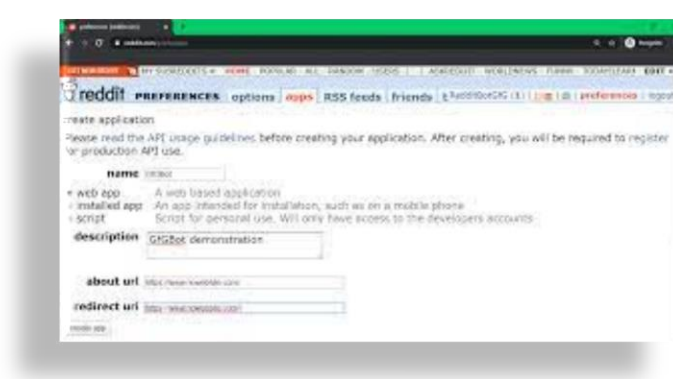


FIG 6.1 REGISTRATION OF REDDIT BOT BY USING API

REFERENCE

- <https://www.reddit.com/>
- <https://levelup.gitconnected.com/creating-a-reddit-bot-using-python-5464d4a5dff2>
- <https://www.reddit.com/prefs/apps/>

Notes:

1. Chapter Title – Front size = 16, Front Type = Times New Roman, Alignment = Centered, Bold.

(Example – INTRODUCTION)

2. Heading – Front size = 14, Front Type = Times New Roman, Alignment = Left, Bold.

(Example – 4.1 ALGORITHM)

3. Sub Heading - Front size = 12, Front Type = Times New Roman, Alignment = Left, Bold.

(Example – Module)

4. Content - Front size = 12, Front Type = Times New Roman, Alignment = Left.

(Example – Write down proper information about your project)

5. Figure – Give proper name to your figure and screenshot.

Front size = 12, Front Type = Times New Roman, Alignment = Centered.

Fig. Chapter no. name of figure/screenshot

(Example – Fig. 4 Flowchart of Tic-Tac-Toe)