

## YOUTUBE VIDEOS CRAWLER

### Aim :

To build a tool using Python that will crawl over the videos of Youtube.

### Problem Defination :

In this world surrounded by social media, we are stuck inside the world wide web.

Youtube, one of the largest social media platform that has provided an opportunity for everyone to show their talent and earn for living.

The aim of this project is to display the recent 20 videos of a youtube channel by passing a link of that channel to this tool.

As the link is passed and crawl button is pressed, the tool will go to the desired link and crawl over the information of videos and store it in a CSV (Comma Separated Values) file.

This file will be directly opened in Microsoft Excel containing the title of video, date of upload, views on the particular video, duration of the video and the link to that video.

## Code for crawler

```
from tkinter import *
from bs4 import BeautifulSoup
import requests
import csv
import os
import sys

root = Tk()
root["bg"] = "black"
root.title('Youtube Videos Crawler')

def crawler(site_url):
    source = requests.get(site_url).text

    soup = BeautifulSoup(source, "lxml")

    csv_file = open('cms_scrape.csv', 'w')
    csv_writer = csv.writer(csv_file)
    csv_writer.writerow(['Title', 'Duration', 'Views', 'Upload Date', 'Link'])
    t_l = []
    d_l = []
    v_l = []
    ud_l = []
    l_l = []
    for ytd in soup.find_all('li', class_="channels-content-item yt-shelf-grid-item"):

        head = ytd.find('h3', class_="yt-lockup-title ").a.text
        title = head
        t_l.append(title)

        duration = ytd.find('h3', class_="yt-lockup-title ").span.text
        dur = duration[13:-1]
        d_l.append(dur)

        li = []
        li = ytd.find_all('ul', class_="yt-lockup-meta-info")[0].text.split('ws')
        view = li[0]+'ws'
        views = view
        v_l.append(views)

        date = li[1]
        up_date = date
        ud_l.append(up_date)

        vid_id = ytd.find('div', class_="yt-lockup clearfix yt-lockup-video yt-lockup-grid vve-check")['data-context-item-id']
        vid_link = f'https://youtube.com/watch?v={vid_id}'
        link = vid_link
        l_l.append(link)

    try:
        csv_writer.writerow([title, dur, views, up_date, link])
    except Exception:
        continue
```

```
csv_file.close()
return 1
```

```
def actperformed(event):
```

```
def call_crawler(event):
```

```
    get_link = enter_link_entry.get()
    flag = crawler(get_link)
    if flag is 1:
        nw.destroy()
```

```
def open_file(event):
```

```
    x = sys.argv[0].split('/')
    pth = ""
    for i in x[:-1]:
        pth = pth + i + '/'
    path = pth + 'cms_scrape.csv'
    os.startfile(path)
    root.destroy()
```

```
root = Tk()
root["bg"] = "black"
root.title('Youtube Videos Crawler')
root.geometry('320x240')
```

```
c1 = Canvas(root, width=320, height=240, bg='black')
button = Button(c1, text='Open File in Excel', width=18, height=3, bg='green', font=("Arial", 15))
c1.pack()
button.bind('<Button-1>', open_file)
button.place(relx=0.2, rely=0.25)
```

```
root.mainloop()
```

```
get_name = name_entry.get()
get_pass = name_entry.get()
```

```
if(get_name == 'admin' and get_pass == 'admin'):
```

```
    root.destroy()
    nw = Tk()
    nw.title('Youtube Videos Crawler')
    nw["bg"] = 'black'
    nw.geometry("320x240")
```

```
    nc2 = Canvas(nw, width=320, height=240, bg='black')
    nc = Canvas(nc2, width=320, height=240, bg='black')
```

```
    new_label1 = Label(nc2, text='login successful', anchor='n', fg='green', bg='black', width=20)
    new_label1.config(font=("Courier", 17))
```

```
    enter_link = Label(nc, text='Enter the URL:', fg='white', bg='black', width=12)
    enter_link_entry = Entry(nc, bg='grey', width=20)
    crawl = Button(nc, bg='grey', activebackground='green', fg='black', text='crawl', width=6, height=1)

    new_label1.place(relx=0.5, rely=0.1, anchor='n')
```

```

enter_link.grid(row=2, column=1, padx=2, pady=3)
enter_link_entry.grid(row=2, column=2, pady=3)
crawl.bind('<Button-1>', call_crawler)
crawl.grid(row=3, column=2, padx=1, pady=3)
nc2.pack()
nc.place(relx=0.5, rely=0.5, anchor=CENTER)

c3 = Canvas(root, width=640, height=480 ,bg='black')
c3.pack()
c2 = Canvas(c3, width=640, height=480, bg='black')
c2.pack()
c1 = Canvas(c2, width=640, height=480, bg='black')
c1.pack()

title = Label(c2, text="WELCOME TO YOUTUBE VIDEOS CRAWLER", anchor='n', fg='yellow', bg='black',
width=40)
title.config(font=("Arial", 18))
name = Label(c1, text='Name', bg='black', fg='red')
password = Label(c1, text='Password', bg='black', fg='blue')
name_entry = Entry(c1, bg='grey')
pass_entry = Entry(c1, bg='grey', show='*')
button = Button(c1, bg='white', activebackground='green', fg='black', text='login', width=5, height=1,
font=("Arial", 10))
border = c2.create_rectangle(20, 20, 620, 460, fill='black', outline='white')

title.place(relx=0.5, rely=0.1, anchor='n')
name.grid(row=2, column=2, sticky=E, padx=1, pady=2)
password.grid(row=3, column=2, sticky=E, padx=2, pady=2)
name_entry.grid(row=2, column=3, padx=3, pady=2)
pass_entry.grid(row=3, column=3, padx=3, pady=2)
button.grid(row=4, column=3, sticky=W, padx=4, pady=5)
button.bind("<Button-1>", actperformed)
c1.place(relx=0.5, rely=0.5, anchor=CENTER)

root.mainloop()

```

## **Code to convert .py to .exe**

```

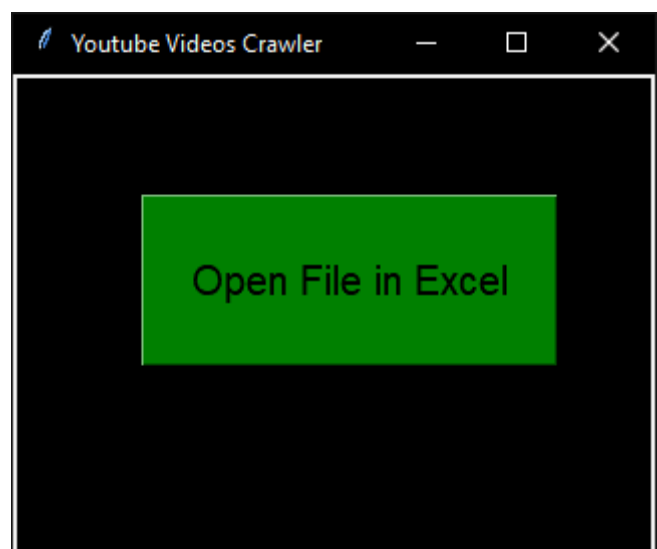
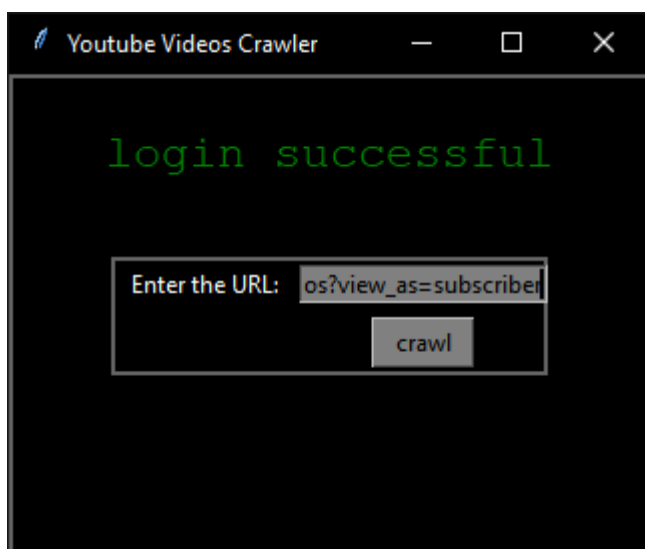
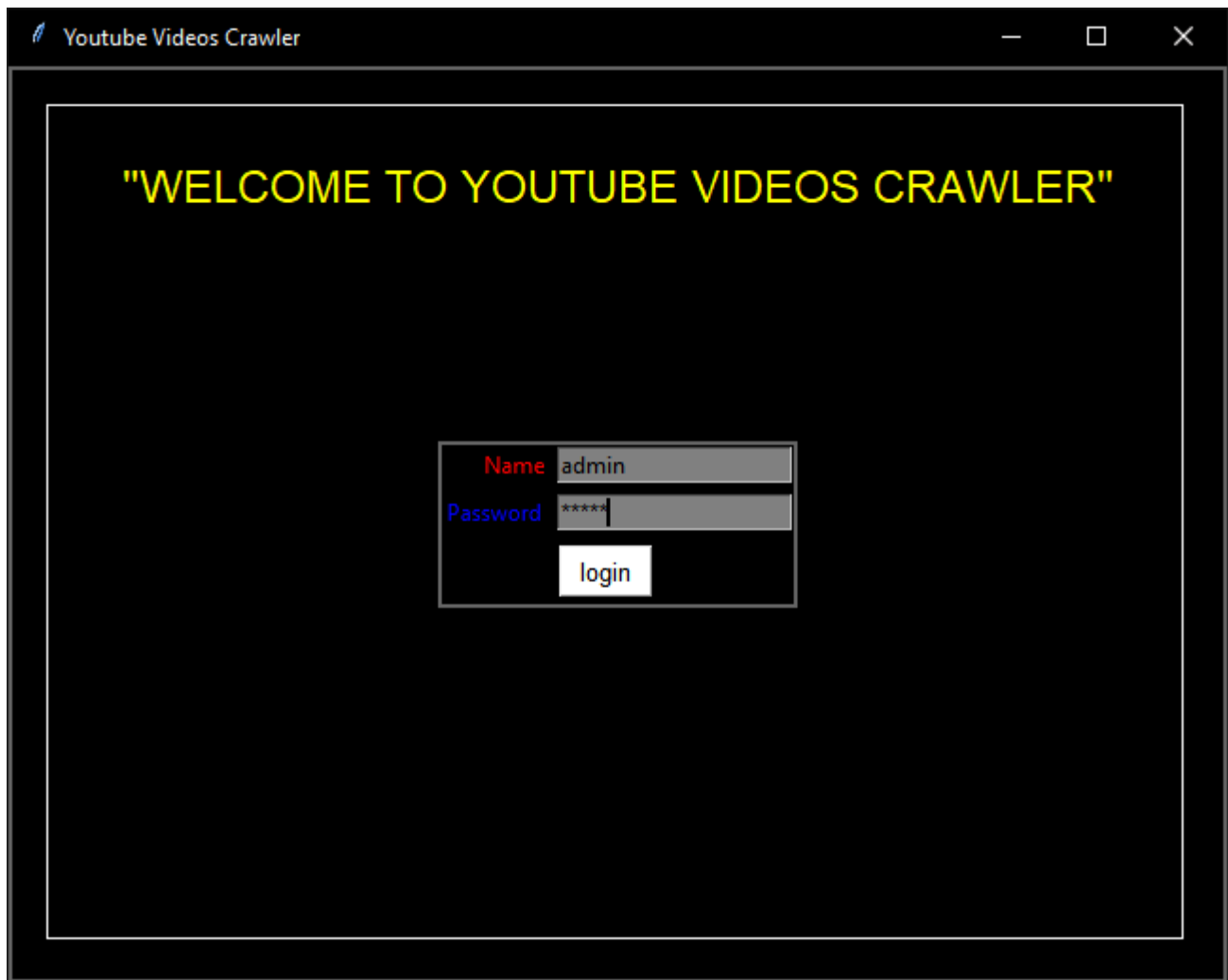
import sys
from cx_Freeze import setup, Executable
import matplotlib

base = None
if sys.platform == "win32":
    base = 'WIN32GUI'

setup(
    name = 'Youtube Videos Crawler',
    version = '1.0',
    options = {'build_exe':{'packages':['bs4', 'requests', 'matplotlib']}},
    executables = [Executable('login.py', base = base)])

```

## Screenshots



cms_scraps.csv - Excel					
chirag wadhwa					
File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do					
Clipboard Font Alignment Number Styles Cells Editing					
E59					
	A	B	C	D	E
1	Title	Duration	Views	Upload Date	Link
2					
3	CHRISTMAS UPDATE!! NEW PACKS! PACK OPENING! RULES OF SURVIVAL.	3 minutes, 18 seconds	855 views	3 months ago	<a href="https://youtube.com/watch?v=T7XvDmPKBZk">https://youtube.com/watch?v=T7XvDmPKBZk</a>
4					
5	MC5 UPDATE 19 FIRST LOOK. NEW WEAPON.NEW SYSTEM. GAME CHANGER?	3 minutes, 36 seconds	119 views	4 months ago	<a href="https://youtube.com/watch?v=RB7rCF_s0h0">https://youtube.com/watch?v=RB7rCF_s0h0</a>
6					
7	MC5 HOW TO DEAL WITH AIMBOTERS	103 seconds	439 views	7 months ago	<a href="https://youtube.com/watch?v=18yuCecICz8">https://youtube.com/watch?v=18yuCecICz8</a>
8					
9	MC5 AIMBOT+DAMAGE HACK FOR FREE!!!(link in description)	2 minutes, 11 seconds	11,814 views	7 months ago	<a href="https://youtube.com/watch?v=gWXfPLNNQF8">https://youtube.com/watch?v=gWXfPLNNQF8</a>
10					
11	MC5 fastest credit farming. 100 credits in less than 15 mins.( TRAINER + OTHER HACKS)	3 minutes, 50 seconds	40,529 views	8 months ago	<a href="https://youtube.com/watch?v=mVJE8iZd1k">https://youtube.com/watch?v=mVJE8iZd1k</a>
12					
13	Photron Stedy 450   BUDGET TRIPOD   unboxing and review	6 minutes, 43 seconds	93 views	1 year ago	<a href="https://youtube.com/watch?v=2TnKZr-7_C8">https://youtube.com/watch?v=2TnKZr-7_C8</a>
14					
15	CHANNEL INTRO	11 seconds	46 views	1 year ago	<a href="https://youtube.com/watch?v=56wEVj1po3g">https://youtube.com/watch?v=56wEVj1po3g</a>
16					
17	MC5    HOW TO GET MORE MULTI KILLS?	97 seconds	698 views	1 year ago	<a href="https://youtube.com/watch?v=5URbyfdghH0">https://youtube.com/watch?v=5URbyfdghH0</a>
18					
19	REDMI 3S   UNBOXING AND QUICK OVERVIEW.	3 minutes, 56 seconds	130 views	1 year ago	<a href="https://youtube.com/watch?v=ghI7LUeQEIQ">https://youtube.com/watch?v=ghI7LUeQEIQ</a>
20					
21	ZOOOK ROCKER ENCORE UNBOXING + REVIEW + SOUND TEST	9 minutes, 18 seconds	2,049 views	1 year ago	<a href="https://youtube.com/watch?v=pjwaY1yVJTg">https://youtube.com/watch?v=pjwaY1yVJTg</a>
22					
23	UNBOXING REDMI NOTE 3 (SNAPDRAGON 650)	5 minutes, 58 seconds	103 views	1 year ago	<a href="https://youtube.com/watch?v=ZwzZKAA8zGU">https://youtube.com/watch?v=ZwzZKAA8zGU</a>
24					
25	SNAPCHAT HACK    2 IN 1 FILTER	37 seconds	35 views	2 years ago	<a href="https://youtube.com/watch?v=dEakEaFgbeg">https://youtube.com/watch?v=dEakEaFgbeg</a>
26					
27	MINI MILITIA ONLINE HACK 100% working	2 minutes, 43 seconds	2,018 views	2 years ago	<a href="https://youtube.com/watch?v=KYQOARQT2DY">https://youtube.com/watch?v=KYQOARQT2DY</a>
28					
29	Maggi chicken noodles UNBOXING	6 minutes, 49 seconds	6,465 views	2 years ago	<a href="https://youtube.com/watch?v=faT2VsYhcbE">https://youtube.com/watch?v=faT2VsYhcbE</a>
30					
31	Amazing housefly	31 seconds	93 views	2 years ago	<a href="https://youtube.com/watch?v=-NADonowZ1Q">https://youtube.com/watch?v=-NADonowZ1Q</a>
32					
33	Grand theft auto: liberty city stories on Android.	63 seconds	76 views	2 years ago	<a href="https://youtube.com/watch?v=58f_oGBLwKY">https://youtube.com/watch?v=58f_oGBLwKY</a>
34					
35	INSANE 100+ PACKS OPENING #wwe immortals	3 minutes, 14 seconds	58 views	2 years ago	<a href="https://youtube.com/watch?v=qFdIE_gnTI4">https://youtube.com/watch?v=qFdIE_gnTI4</a>
36					
37	WWE IMMORTALS LEVEL HACK	3 minutes, 13 seconds	4,776 views	2 years ago	<a href="https://youtube.com/watch?v=Kc77EQKXQRc">https://youtube.com/watch?v=Kc77EQKXQRc</a>
38					
39	WWE SUPERCARD HACKED!	50 seconds	2,006 views	2 years ago	<a href="https://youtube.com/watch?v=2Rw7T8ttmM8">https://youtube.com/watch?v=2Rw7T8ttmM8</a>
40					
41	MC5 NEW GLITCH(CONSTRUCTION SITE)	36 seconds	430 views	2 years ago	<a href="https://youtube.com/watch?v=agOnVTjUeY">https://youtube.com/watch?v=agOnVTjUeY</a>
42					
43	MC5 ROOFTOPS GLITCH	31 seconds	1,098 views	2 years ago	<a href="https://youtube.com/watch?v=DXoifBvxmUY">https://youtube.com/watch?v=DXoifBvxmUY</a>
44					
45	MC5 CONSTRUCTION SITE INSIDE WALL	26 seconds	159 views	2 years ago	<a href="https://youtube.com/watch?v=Y11WDed5idc">https://youtube.com/watch?v=Y11WDed5idc</a>
46					
47	MC5 CONSTRUCTION SITE SUICIDE GLITCH	55 seconds	427 views	2 years ago	<a href="https://youtube.com/watch?v=mqLPBZ10YPo">https://youtube.com/watch?v=mqLPBZ10YPo</a>
48					
49	MC5 NEW GLITCH. "INSIDE THE TANK"	23 seconds	479 views	2 years ago	<a href="https://youtube.com/watch?v=nNNMxOOueVc">https://youtube.com/watch?v=nNNMxOOueVc</a>
50					
51	MC5 OVERTIME GLITCH	70 seconds	142 views	2 years ago	<a href="https://youtube.com/watch?v=OuUtGb8OtM0">https://youtube.com/watch?v=OuUtGb8OtM0</a>
52					
53	MODERN COMBAT 5 GLITCH	99 seconds	377 views	2 years ago	<a href="https://youtube.com/watch?v=-EAd2qYfkzc">https://youtube.com/watch?v=-EAd2qYfkzc</a>
54					
55	OPENING 14 ELIE PACKS #sniper fury	3 minutes, 44 seconds	540 views	2 years ago	<a href="https://youtube.com/watch?v=phE4fA3WE1A">https://youtube.com/watch?v=phE4fA3WE1A</a>
56					
57	OMG! I GOT RESOLUTION. #sniper fury	2 minutes, 32 seconds	37 views	2 years ago	<a href="https://youtube.com/watch?v=YVvKQHsuvRo">https://youtube.com/watch?v=YVvKQHsuvRo</a>
58					
59					
60					
61					