

# YOUTUBE GRABBER

## 21CSS101J – PROGRAMMING FOR PROBLEM SOLVING

### Mini Project Report

*Submitted by*

**DINESH RAJA M [Reg. No.: RA2211003010161]  
B.Tech. CSE - CORE**

**MOHAMED HARSHAD M[Reg. No.: RA2211003010152]  
B.Tech. CSE - CORE**



**SCHOOL OF COMPUTING  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

**(Under Section 3 of UGC Act, 1956)**

**S.R.M. NAGAR, KATTANKULATHUR – 603 203**

**KANCHEEPURAM DISTRICT**

**December 2022**

# **TABLE OF CONTENTS**

<b><u>Chapter</u> <u>No.</u></b>	<b><u>Title</u></b>	<b><u>Page</u> <u>No.</u></b>
--------------------------------------	---------------------	-----------------------------------

1	Problem Statement	1
2	Methodology / Procedure	2
3	Coding (Python)	3
4	Results	5
5	Conclusion	6

## ***Problem Statement***

YouTube is the most-watched video streaming website. Launched in 2005, the online video platform features a wide variety of content, including TV clips, educational videos, music & gaming videos, entertainment stuff, and much more.

A slow internet connection can create problems while streaming videos online. But with a YouTube video downloader, it helps us to download YouTube videos in

both video and audio formats. Using this downloader we can save these video and audio files directly to our gallery.

## **Methodology / Procedure**

First, we need to install two modules (youtube\_dl, pafy) that help us to get the required information of that video from YouTube.

Using the pafy module we can get the details such as video name, duration, channel name etc... youtube\_dl module is just a support module for pafy to function.

With the URL provided by the user, we can download the video in any formats such as mp4, m4a, webm, etc....

## **Coding**

```

1  import pafy
2  print("""
3  YT 2020000000
4  YT 2020000000
5  YT 2020000000""")
6  url = input("Enter The youtube link: ")
7  video = pafy.new(url)
8  print("-----")
9  print("TITLE:" video.title)
10 print("CHANNEL NAME:" video.author)
11 print("VIDEO LENGTH:" video.duration)
12 print("-----")
13 print("1. Download video (best quality)")
14 print("2. Download Only Audio (best quality)")
15 print("3. Download video in a particular format(eg:mp4,3gp,webm)")
16 print("4. Exit")
17 ch=input("Your Choice ● : ")
18 if(ch=='1'):
19     streams = video.streams
20     print("Available video formats : ")
21     for i in streams:
22         print(i)
23     best = video.getbest()
24     print("BEST VIDEO FORMAT: ")

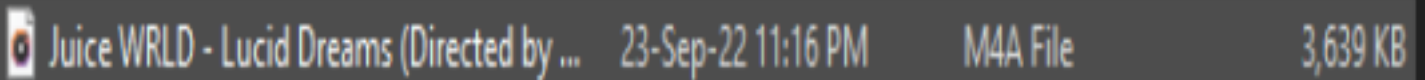
```

```

25     print(best.resolution, best.extension)
26     best.download()
27 elif(ch=='2'):
28     best = video.getbestaudio(preftype="m4a")
29     best.download()
30 elif(ch=='3'):
31     streams = video.streams
32     print("Available video formats : ")
33     for i in streams:
34         print(i)
35     best = video.getbest()
36     print("BEST VIDEO FORMAT: ")
37     print(best.resolution, best.extension)
38     dv=input("Enter Your Desired format(3gp/mp4/webm): ")
39     if(dv=="3gp"):
40         best = video.getbest(preftype="3gp")
41         best.download()
42     elif(dv=="mp4"):
43         best = video.getbest(preftype="mp4")
44         best.download()
45     elif(dv=="webm"):
46         best = video.getbest(preftype="webm")
47         best.download()

```

# **Result**



# **Conclusion**

Therefore, we have made a program that helps us to download any video from the YouTube in any formats. We have learned a lot of python functions during this project. We have enjoyed the whole process.

Thank you.