

Report for YouTube Video Downloader

AS A PROJECT WORK FOR COURSE

Python Programming | INT 213 | 05 November 2021

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Table of Contents

1. Abstract	3
2. Introduction	4
3. Libraries	5-6
4. Screenshots	7-8
5. References	9

YouTube Video Downloader

05th November 2021

ABSTRACT: -

YouTube is a free video sharing and social networking website and app on the internet. The website lets people upload, view, and share videos. YouTube was founded on February 14, 2005, by three former members of PayPal. Google has owned and operated YouTube since 2006. Here you get all types of videos contents like educational, entertainment, motivational and so on. It is doing well these days. It helps to break the bond between different countries like learning different languages, and cultures.

YouTube works with internet that's means can't watch videos if your internet gone. This is the main motive for making such type of project. With the help of this project, you can be able to download any video if you have internet available and watch it later, when you want. It helps us to download videos from server to our storage, you can also share to other after downloading this.

FEATURES: -

- Download in easy steps by just coping video link.
- Download videos in different qualities.
- Conformation of Video downloading.
- Simple UI

INTRODUCTION: -

1.1 Context

This project has been done as part of my course for the INT 213 at Lovely Professional University. Supervised by Ankita Wadhawan mam, I have three months to fulfill the requirements in order to succeed the module.

1.2 Idea

After learning python, I am trying to build some GUI applications using python and its libraries. So, I decided to make some real-world simple working GUI application. And then I finalized for YouTube Video downloader. This application helps us to download any videos from YouTube in different qualities.

1.3 Learning

This project helps me to clear different doubt's related to python. Doing project after learning concept helps us lot polish our knowledge for real world. This project helps us to download videos and store in local disk. That's why I decided to conduct my project around this field.

TEAM MEMBERS: -

Team Leader --- Vivek Kumar

Contributions:

1. Coding
2. Features
3. GUI
4. Reports

LIBRARIES: -

Tkinter: -

Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

Creating a GUI application using Tkinter is an easy task. All you need to do is perform the following steps –

- Import the Tkinter module.
- Create the GUI application main window.
- Add one or more of the above-mentioned widgets to the GUI application.
- Enter the main event loop to take action against each event triggered by the user.

PyTube: -

pytube is a lightweight library written in Python. It has no third-party dependencies and aims to be highly reliable. pytube also makes pipelining easy, allowing you to specify callback functions for different download events, such as on progress or on complete.

Different Modules Used in this Project: -

Ttk: -

ttk widgets use styles to define how they look, so it takes a bit more work if you want a non-standard button. ttk widgets are also a little under-documented. Understanding the underlying theme and layout engines (layout within the widgets themselves, not pack, grid and place) is a challenge.

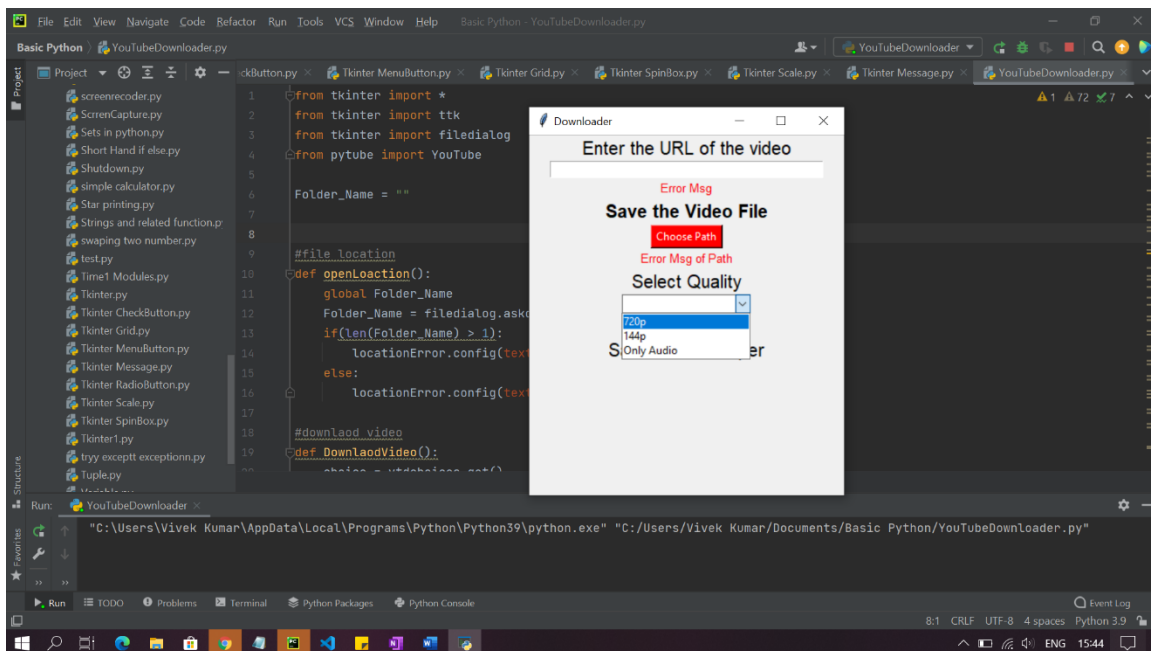
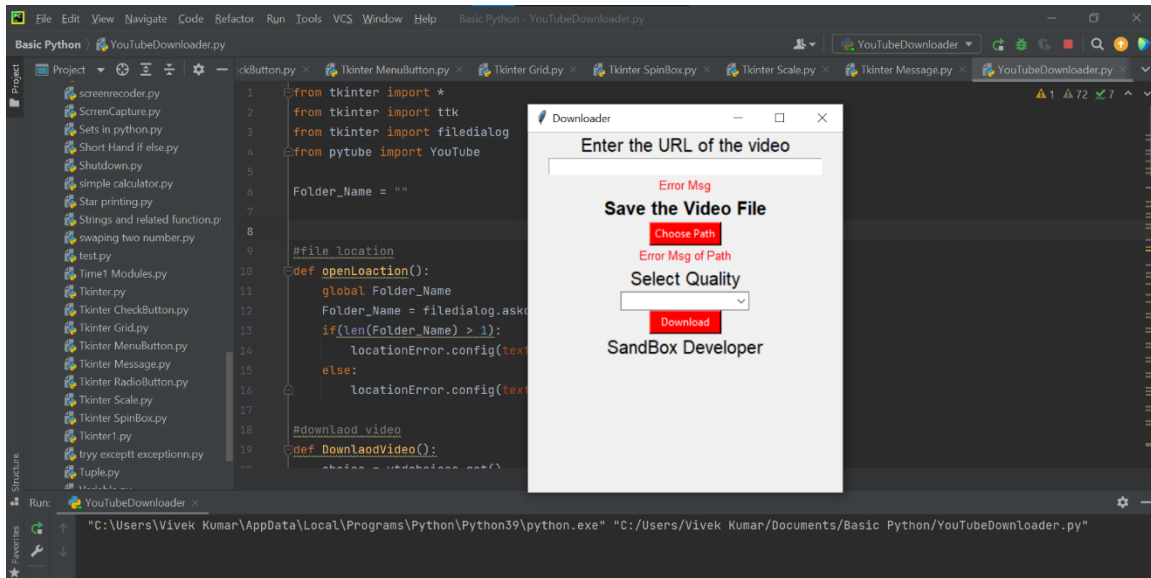
FileDialog: -

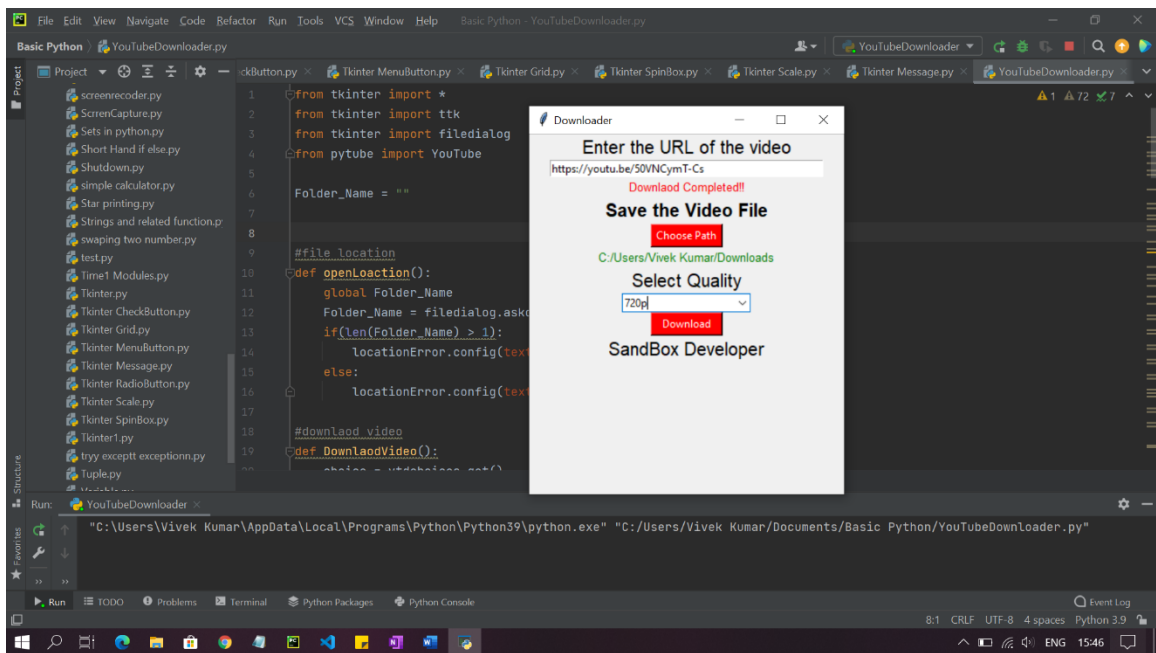
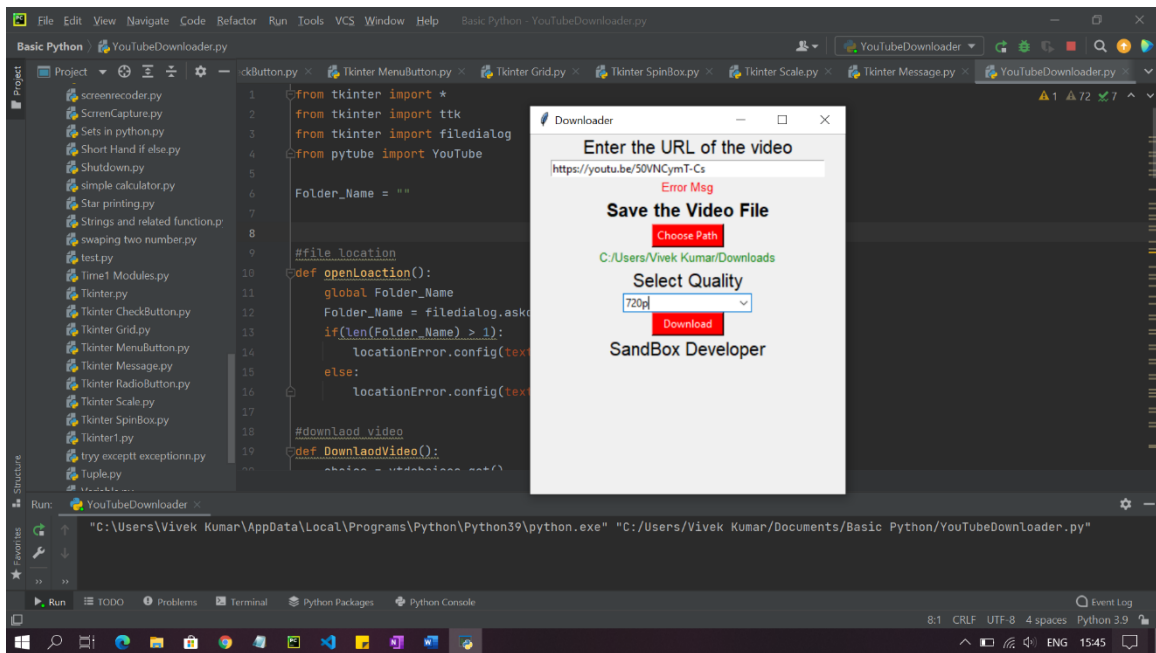
Python Tkinter (and TK) offer a set of dialogs that you can use when working with files. By using these you don't have to design standard dialogs yourself.

From pytube import YouTube: -

pytube is a lightweight, Pythonic, dependency-free, library (and command-line utility) for downloading YouTube Videos.

SCREENSHOTS: -





Source Code:

```
from tkinter import *
from tkinter import ttk
from tkinter import filedialog
from pytube import YouTube

Folder_Name = ""

#file location
def openLoaction():
    global Folder_Name
    Folder_Name = filedialog.askdirectory()
    if(len(Folder_Name) > 1):
        locationError.config(text=Folder_Name,fg="green")
    else:
        locationError.config(text="Please choose Folder!!",fg="red")

#downlaod video
def DownlaodVideo():
    choice = ytdchoices.get()
    url = ytdEntry.get()

    if(len(url) > 1):
        ytdError.config(text="")
        yt = YouTube(url)

        if(choice == choices[0]):
            select =
yt.streams.filter(res="720p",progressive=True,type="video").first()

        elif(choice == choices[1]):
            select =
yt.streams.filter(res="360p",progressive=True,type="video").last()

        elif(choice == choices[2]):
            select =
yt.streams.filter(only_audio=True,abr="160kbps",progressive=False,type=
"audio").first()

        else:
            ytdError.config(text="Try Again!!",fg="red")

#downlaod Fuction
select.download((Folder_Name))
ytdError.config(text="Downlaod Completed!!")

root =Tk()
root.title("Downloader")
root.geometry("350x400") #set window
root.columnconfigure(0,weight=1) #set all content in center
```

```

ytdLabel = Label(root,text="Enter the URL of the
video",font=("jost",15))
ytdLabel.grid()

#entry Box
ytdEntryVar = StringVar()
ytdEntry = Entry(root,width=50,textvariable=ytdEntryVar)
ytdEntry.grid()

#error msg
ytdError = Label(root,text="Error Msg",fg="red",font=("jost",10))
ytdError.grid()

#Asking save file label
saveLabel = Label(root,text="Save the Video
File",font=("jost",15,"bold"))
saveLabel.grid()

#btn of save file
saveEntry = Button(root,width=10,bg="red",fg="white",text="Choose
Path",command=openLoaction)
saveEntry.grid()

#error msg location
locationError = Label(root,text="Error Msg of
Path",fg="red",font=("jost",10))
locationError.grid()

#Download Quality
ytdQuality = Label(root,text="Select Quality",font=("jost",15))
ytdQuality.grid()

#combobox
choices = ["720p","144p","Only Audio"]
ytdchoices = ttk.Combobox(root,values=choices)
ytdchoices.grid()

#download btn
downlaodbtn =
Button(root,text="Download",width=10,bg="red",fg="white",command=Downla
odVideo)
downlaodbtn.grid()

#developer Label
developerlabel = Label(root,text="SandBox Developer",font=("jost",15))
developerlabel.grid()

root.mainloop()

```

References: -

To conduct this project the following tools have been used:

- PyCharm and Jupyter Notebook: <https://jupyter.org/>
- Tkinter(Library) : <https://docs.python.org/3/library/tk.html>
- Pytube(Library) : <https://pytube.io/en/latest/>

1.1 YouTube Videos: -

I have used this video for our basis knowledge gain that will be used in this project.

<https://youtu.be/hgVeViiPiT4>

1.2 GitHub Link: -

I have made different project and its repository is present in GitHub.

<https://github.com/vivek9211>

1.3 LinkedIn: -

<https://www.linkedin.com/in/vivek-kumar-62074419b/>