import yt\_dlp

import os

import tkinter as tk

from tkinter import messagebox, ttk

import pyperclip

# Set the download folder

DOWNLOAD\_FOLDER = r'C:\Users\Asus\OneDrive\Desktop\Code\CapStone\prac3\youtube\_downloads'

if not os.path.exists(DOWNLOAD\_FOLDER):

    os.makedirs(DOWNLOAD\_FOLDER)

def download\_video():

    url = url\_entry.get().strip()

    if not url:

        messagebox.showerror("Input Error", "Please enter a valid YouTube URL.")

        return

    format\_choice = quality\_var.get()

    if format\_choice == "Best Video":

        ydl\_opts = {'format': 'bestvideo+bestaudio', 'outtmpl': os.path.join(DOWNLOAD\_FOLDER, '%(title)s.%(ext)s')}

    elif format\_choice == "Best Audio":

        ydl\_opts = {'format': 'bestaudio', 'outtmpl': os.path.join(DOWNLOAD\_FOLDER, '%(title)s.%(ext)s'), 'postprocessors': [{'key': 'FFmpegExtractAudio', 'preferredcodec': 'mp3', 'preferredquality': '192'}]}

    else:

        ydl\_opts = {'format': 'worstvideo+bestaudio', 'outtmpl': os.path.join(DOWNLOAD\_FOLDER, '%(title)s.%(ext)s')}

    try:

        with yt\_dlp.YoutubeDL(ydl\_opts) as ydl:

            ydl.download([url])

        messagebox.showinfo("Success", f"Download completed! Check: {os.path.abspath(DOWNLOAD\_FOLDER)}")

    except Exception as e:

        messagebox.showerror("Download Error", f"An error occurred: {str(e)}")

def download\_thumbnail():

    url = url\_entry.get().strip()

    if not url:

        messagebox.showerror("Input Error", "Please enter a valid YouTube URL.")

        return

    try:

        with yt\_dlp.YoutubeDL() as ydl:

            info = ydl.extract\_info(url, download=False)

            thumbnail\_url = info.get('thumbnail')

            if thumbnail\_url:

                os.system(f"wget -P {DOWNLOAD\_FOLDER} {thumbnail\_url}")

                messagebox.showinfo("Success", "Thumbnail downloaded successfully!")

            else:

                messagebox.showerror("Error", "Thumbnail not found.")

    except Exception as e:

        messagebox.showerror("Error", f"Failed to download thumbnail: {str(e)}")

def paste\_from\_clipboard():

    url\_entry.delete(0, tk.END)

    url\_entry.insert(0, pyperclip.paste())

# Tkinter UI Setup

root = tk.Tk()

root.title("YouTube Video Downloader")

url\_label = tk.Label(root, text="Enter YouTube Video URL:")

url\_label.pack(pady=5)

url\_entry = tk.Entry(root, width=50)

url\_entry.pack(pady=5)

paste\_button = tk.Button(root, text="Paste from Clipboard", command=paste\_from\_clipboard)

paste\_button.pack(pady=5)

# Quality Selection

quality\_var = tk.StringVar()

quality\_var.set("Best Video")

quality\_label = tk.Label(root, text="Select Quality:")

quality\_label.pack(pady=5)

quality\_menu = ttk.Combobox(root, textvariable=quality\_var, values=["Best Video", "Worst Video", "Best Audio"])

quality\_menu.pack(pady=5)

# Download Buttons

download\_button = tk.Button(root, text="Download Video", command=download\_video)

download\_button.pack(pady=10)

download\_thumbnail\_button = tk.Button(root, text="Download Thumbnail", command=download\_thumbnail)

download\_thumbnail\_button.pack(pady=10)

root.mainloop()  
  
  
