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from tkinter import *
import time
import tkinter.messagebox
from bot import chat
import pytsx3
import threading

saved_username = ["You"]
#ans=["V-Bot"]
window_size="600x400"

class ChatInterface(Frame):

    def __init__(self, master=None):
        Frame.__init__(self, master)
        self.master = master

        # sets default bg for top level windows
        self.tl_bg = "#263b54"
        self.tl_bg2 = "#263b54"
        self.tl_fg = "#FFFFFF"
        self.font = "Verdana 10"
        self.master.config(bg="#263b54")

        menu = Menu(self.master)
        self.master.config(menu=menu, bd=5)

# Menu bar

# File
file = Menu(menu, tearoff=0)
menu.add_cascade(label="File", menu=file)
# file.add_command(label="Save Chat Log", command=self.save_chat)
file.add_command(label="Clear Chat", command=self.clear_chat)
# file.add_separator()
file.add_command(label="Exit", command=self.chatexit)

# Options
options = Menu(menu, tearoff=0)
menu.add_cascade(label="Options", menu=options)

# username

# font
font = Menu(options, tearoff=0)
options.add_cascade(label="Font", menu=font)
font.add_command(label="Default", command=self.font_change_default)
font.add_command(label="Times", command=self.font_change_times)
font.add_command(label="System", command=self.font_change_system)
font.add_command(label="Helvetica", command=self.font_change_helvetica)
font.add_command(label="Fixedsys", command=self.font_change_fixedsys)

# color theme
color_theme = Menu(options, tearoff=0)
options.add_cascade(label="Color Theme", menu=color_theme)
color_theme.add_command(label="Default", command=self.color_theme_dark_blue)
# color_theme.add_command(label="Night", command=self.)
color_theme.add_command(label="Grey", command=self.color_theme_grey)
color_theme.add_command(label="Blue", command=self.color_theme_dark_blue)

color_theme.add_command(label="Torque", command=self.color_theme_turquoise)
color_theme.add_command(label="Hacker", command=self.color_theme_hacker)
# color_theme.add_command(label='Mk8hd', command=self.MK8HD)

help_option = Menu(menu, tearoff=0)
menu.add_cascade(label="Help", menu=help_option)
#help_option.add_command(label="Features", command=self.features_msg)
help_option.add_command(label="About V-Bot", command=self.msg)
help_option.add_command(label="Develpoers", command=self.about)

self.text_frame = Frame(self.master, bd=6, bg="#263b54")
self.text_frame.pack(expand=True, fill=BOTH)

# scrollbar for text box
self.text_box_scrollbar = Scrollbar(self.text_frame, bd=0, bg="#263b54")
self.text_box_scrollbar.pack(fill=Y, side=RIGHT)

# contains messages
self.text_box = Text(self.text_frame, yscrollcommand=self.text_box_scrollbar.set, state=DISABLED,
                    bd=1, padx=6, pady=6, spacing3=8, wrap=WORD, bg="#263b54", foreground="#FFFFFF", font="Verdana 10", relief=GROOVE,
                    width=10, height=1)
self.text_box.pack(expand=True, fill=BOTH)
self.text_box_scrollbar.config(command=self.text_box.yview)

# frame containing user entry field
self.entry_frame = Frame(self.master, bd=1, bg="#263b54")
self.entry_frame.pack(side=LEFT, fill=BOTH, expand=True)

# entry field
self.entry_field = Entry(self.entry_frame, bd=1, justify=LEFT, bg="#263b54", foreground="#FFFFFF")
self.entry_field.pack(fill=X, padx=6, pady=6, ipady=3)
# self.users_message = self.entry_field.get()

# frame containing send button and emoji button
self.send_button_frame = Frame(self.master, bd=0, bg="#263b54")
self.send_button_frame.pack(fill=BOTH)

# send button
self.send_button = Button(self.send_button_frame, text="Send", width=4, relief=GROOVE, bg="#263b54",
                        bd=1, command=lambda: self.send_message_insert(None), activebackground="#FFFFFF",
                        foreground="#FFFFFF")
self.send_button.pack(side=LEFT, pady=6, ipady=2, ipadx=6, padx=4)
self.master.bind("<Return>", self.send_message_insert)

self.last_sent_label(date="No messages sent.")
#t2 = threading.Thread(target=self.send_message_insert(), name='t1')
#t2.start()

def playResponse(self, response):
    x=pytsx3.init()
    #print(response)
    li = []
    if len(response) > 100:
        if response.find('...') == -1:
            b = response.split('...')
            #print(b)

    x.setProperty('rate',120)
    ...

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x.setProperty( volume ,100)
x.say(response)
x.runAndWait()
#print("Played Successfully.....")

def last_sent_label(self, date):

    try:
        self.sent_label.destroy()
    except AttributeError:
        pass

    self.sent_label = Label(self.entry_frame, font="Verdana 7", text=date, bg=self.tl_bg2, fg=self.tl_fg)
    self.sent_label.pack(side=LEFT, fill=X, padx=3)

def clear_chat(self):
    self.text_box.config(state=NORMAL)
    self.last_sent_label(date="No messages sent.")
    self.text_box.delete(1.0, END)
    self.text_box.delete(1.0, END)
    self.text_box.config(state=DISABLED)

def chatexit(self):
    exit()

def msg(self):
    tkinter.messagebox.showinfo("V-Bot v1.0","V-Bot is a chatbot for answering python queries\nIt is based on retrival-based NLP using pythons NLTK tool-kit module\nGUI is based on Tkinter\nIt can answer questions regarding python language for new learners'")

def about(self):
    tkinter.messagebox.showinfo("V-Bot Developers","Vaibhav Karnwal")

def send_message_insert(self, message):
    user_input = self.entry_field.get()
    pr1 = "Human : " + user_input + "\n"
    self.text_box.configure(state=NORMAL)
    self.text_box.insert(END, pr1)
    self.text_box.configure(state=DISABLED)
    self.text_box.see(END)
    #t1 = threading.Thread(target=self.playResponse, args=(user_input,))
    #t1.start()
    #time.sleep(1)
    ob=chat(user_input)
    pr="V-Bot : " + ob + "\n"
    self.text_box.configure(state=NORMAL)
    self.text_box.insert(END, pr)
    self.text_box.configure(state=DISABLED)
    self.text_box.see(END)
    self.last_sent_label(str(time.strftime( "Last message sent: " + '%B %d, %Y' + ' at ' + '%I:%M %p'))))
    self.entry_field.delete(0,END)
    time.sleep(0)
    t2 = threading.Thread(target=self.playResponse, args=(ob,))
    t2.start()
    #return ob

def font_change_default(self):
    self.text_box.config(font="Verdana 10")
    self.entry_field.config(font="Verdana 10")
    self.font = "Verdana 10"

def font_change_times(self):
    self.text_box.config(font="Times")
    self.entry_field.config(font="Times")
    self.font = "Times"

def font_change_system(self):
    self.text_box.config(font="System")
    self.entry_field.config(font="System")
    self.font = "System"

def font_change_helvetica(self):
    self.text_box.config(font="helvetica 10")
    self.entry_field.config(font="helvetica 10")
    self.font = "helvetica 10"

def font_change_fixedsys(self):
    self.text_box.config(font="fixedsys")
    self.entry_field.config(font="fixedsys")
    self.font = "fixedsys"

def color_theme_dark(self):
    self.master.config(bg="#2a2b2d")
    self.text_frame.config(bg="#2a2b2d")
    self.text_box.config(bg="#212121", fg="FFFFFF")
    self.entry_frame.config(bg="#2a2b2d")
    self.entry_field.config(bg="#212121", fg="FFFFFF", insertbackground="FFFFFF")
    self.send_button_frame.config(bg="#2a2b2d")
    self.send_button.config(bg="#212121", fg="FFFFFF", activebackground="#212121", activeforeground="FFFFFF")
    # self.emoji_button.config(bg="#212121", fg="FFFFFF", activebackground="#212121", activeforeground="FFFFFF")
    self.sent_label.config(bg="#2a2b2d", fg="FFFFFF")

    self.tl_bg = "#212121"
    self.tl_bg2 = "#2a2b2d"
    self.tl_fg = "FFFFFF"

# Grey
def color_theme_grey(self):
    self.master.config(bg="#444444")
    self.text_frame.config(bg="#444444")
    self.text_box.config(bg="#4f4f4f", fg="ffffff")
    self.entry_frame.config(bg="#444444")
    self.entry_field.config(bg="#4f4f4f", fg="ffffff", insertbackground="ffffff")
    self.send_button_frame.config(bg="#444444")
    self.send_button.config(bg="#4f4f4f", fg="ffffff", activebackground="#4f4f4f", activeforeground="ffffff")
    #self.emoji_button.config(bg="#4f4f4f", fg="ffffff", activebackground="#4f4f4f", activeforeground="ffffff")
    self.sent_label.config(bg="#444444", fg="ffffff")

    self.tl_bg = "#4f4f4f"
    self.tl_bg2 = "#444444"
    self.tl_fg = "ffffff"

def color_theme_turquoise(self):
    self.master.config(bg="#003333")
    self.text_frame.config(bg="#003333")
    self.text_box.config(bg="#669999", fg="FFFFFF")
    self.entry_frame.config(bg="#003333")

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self.entry_field.config(bg="#669999", fg="FFFFFF", insertbackground="FFFFFF")
self.send_button.frame.config(bg="#003333")
self.send_button.config(bg="#669999", fg="FFFFFF", activebackground="#669999", activeforeground="FFFFFF")
#self.emoji_button.config(bg="#669999", fg="FFFFFF", activebackground="#669999", activeforeground="FFFFFF")
self.sent_label.config(bg="#003333", fg="FFFFFF")

self.tl_bg = "#669999"
self.tl_bg2 = "#003333"
self.tl_fg = "FFFFFF"

# Blue
def color_theme_dark_blue(self):
    self.master.config(bg="#263b54")
    self.text_frame.config(bg="#263b54")
    self.text_box.config(bg="#1c2e44", fg="FFFFFF")
    self.entry_frame.config(bg="#263b54")
    self.entry_field.config(bg="#1c2e44", fg="FFFFFF", insertbackground="FFFFFF")
    self.send_button.frame.config(bg="#263b54")
    self.send_button.config(bg="#1c2e44", fg="FFFFFF", activebackground="#1c2e44", activeforeground="FFFFFF")
    #self.emoji_button.config(bg="#1c2e44", fg="FFFFFF", activebackground="#1c2e44", activeforeground="FFFFFF")
    self.sent_label.config(bg="#263b54", fg="FFFFFF")

    self.tl_bg = "#1c2e44"
    self.tl_bg2 = "#263b54"
    self.tl_fg = "FFFFFF"

# Torque
def color_theme_turquoise(self):
    self.master.config(bg="#003333")
    self.text_frame.config(bg="#003333")
    self.text_box.config(bg="#669999", fg="FFFFFF")
    self.entry_frame.config(bg="#003333")
    self.entry_field.config(bg="#669999", fg="FFFFFF", insertbackground="FFFFFF")
    self.send_button.frame.config(bg="#003333")
    self.send_button.config(bg="#669999", fg="FFFFFF", activebackground="#669999", activeforeground="FFFFFF")
    #self.emoji_button.config(bg="#669999", fg="FFFFFF", activebackground="#669999", activeforeground="FFFFFF")
    self.sent_label.config(bg="#003333", fg="FFFFFF")

    self.tl_bg = "#669999"
    self.tl_bg2 = "#003333"
    self.tl_fg = "FFFFFF"

# Hacker
def color_theme_hacker(self):
    self.master.config(bg="#0F0F0F")
    self.text_frame.config(bg="#0F0F0F")
    self.entry_frame.config(bg="#0F0F0F")
    self.text_box.config(bg="#0F0F0F", fg="#33FF33")
    self.entry_field.config(bg="#0F0F0F", fg="#33FF33", insertbackground="#33FF33")
    self.send_button.frame.config(bg="#0F0F0F")
    self.send_button.config(bg="#0F0F0F", fg="FFFFFF", activebackground="#0F0F0F", activeforeground="FFFFFF")
    #self.emoji_button.config(bg="#0F0F0F", fg="FFFFFF", activebackground="#0F0F0F", activeforeground="FFFFFF")
    self.sent_label.config(bg="#0F0F0F", fg="#33FF33")

    self.tl_bg = "#0F0F0F"
    self.tl_bg2 = "#0F0F0F"
    self.tl_fg = "#33FF33"

# Default font and color theme
def default_format(self):
    self.font_change_default()
    self.color_theme_dark_blue()

root=Tk()

a = ChatInterface(root)
root.geometry(window_size)
root.title("V-Bot")
root.iconbitmap('i.ico')
root.mainloop()

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