# -\*- coding: utf-8 -\*-

import tkinter as tk

import aiml

try:

import ttk as ttk

import ScrolledText

except ImportError:

import tkinter.ttk as ttk

import tkinter.scrolledtext as ScrolledText

import time

class TkinterGUI(tk.Tk):

def \_\_init\_\_(self, \*args, \*\*kwargs):

"""

Create & set window variables.

"""

tk.Tk.\_\_init\_\_(self, \*args, \*\*kwargs)

self.title("TMCLPORT Chatbot")

self.bot = aiml.Kernel();

self.bot.setBotPredicate('name', 'Allo')

self.bot.setBotPredicate('master', 'Venkat')

self.bot.learn("basic.aiml");

self.bot.learn("devurl.aiml");

self.bot.learn("apps.aiml");

self.initialize()

def initialize(self):

"""

Set window layout.

"""

self.grid()

self.respond = ttk.Button(self, text='Get Response', command=self.get\_response)

self.respond.grid(column=1, row=2, sticky='nesw', padx=3, pady=3)

self.usr\_input = ttk.Entry(self, state='normal')

self.usr\_input.grid(column=0, row=2, sticky='nesw', padx=3, pady=3)

self.usr\_input.bind('<Return>',self.get\_response\_enter)

self.conversation\_lbl = ttk.Label(self, anchor=tk.E, text='Conversation')

self.conversation\_lbl.grid(column=0, row=0, sticky='nesw', padx=3, pady=3)

self.conversation = ScrolledText.ScrolledText(self, state='disabled')

self.conversation.grid(column=0, row=1, columnspan=2, sticky='nesw', padx=3, pady=3)

s = ttk.Style()

s.configure('TButton', font=('Verdana', 11), foreground='maroon')

s = ttk.Style()

s.configure('TLabel', font=('Courier', 12))

def get\_response(self):

"""

Get a response from the chatbot and display it.

"""

user\_input = self.usr\_input.get()

if user\_input:

self.usr\_input.delete(0, tk.END)

response = self.bot.respond(user\_input)

output = str(response).split("---")

requester = 'You:'

endUser = 'ChatBot:'

self.conversation['state'] = 'normal'

self.conversation.tag\_config("green",foreground='green',font=('Courier', 10, 'bold'))

self.conversation.tag\_config("font",font=('Verdana', 10, 'normal'))

self.conversation.insert(

tk.END, "\n"+ requester +"\n" ,"green"

)

self.conversation.insert(

tk.END, user\_input + "\n" , "font"

)

self.conversation.insert(

tk.END, endUser +"\n" , "green"

)

for resp in output:

self.conversation.insert(

tk.END, resp + "\n" , "font"

)

self.conversation.see(tk.END)

self.conversation['state'] = 'disabled'

time.sleep(0.5)

def get\_response\_enter(self,event):

"""

Get a response from the chatbot and display it.

"""

user\_input = self.usr\_input.get()

if user\_input:

self.usr\_input.delete(0, tk.END)

response = self.bot.respond(user\_input)

output = str(response).split("---")

requester = 'You:'

endUser = 'ChatBot:'

self.conversation['state'] = 'normal'

self.conversation.tag\_config("green",foreground='green',font=('Courier', 10, 'bold'))

self.conversation.tag\_config("font",font=('Verdana', 10, 'normal'))

self.conversation.insert(

tk.END, "\n"+ requester +"\n" ,"green"

)

self.conversation.insert(

tk.END, user\_input + "\n" , "font"

)

self.conversation.insert(

tk.END, endUser +"\n" , "green"

)

for resp in output:

self.conversation.insert(

tk.END, resp + "\n" , "font"

)

self.conversation.see(tk.END)

self.conversation['state'] = 'disabled'

time.sleep(0.5)

gui\_example = TkinterGUI()

gui\_example.mainloop()

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def get\_response(self):

"""

Get a response from the chatbot and display it.

"""

user\_input = self.usr\_input.get()

if user\_input:

self.usr\_input.delete(0, tk.END)

self.conversation['state'] = 'normal'

self.conversation.tag\_configure("right", justify="right")

self.conversation.tag\_configure("left", justify="left")

self.conversation.insert(

tk.END, "\n"+ user\_input , "left"

)

response = self.bot.respond(user\_input)

output = str(response).split("---")

for resp in output:

self.conversation.insert(

tk.END, "\n"+ resp ,"right"

)

self.conversation.tag\_config("left",foreground='black',font=('Courier', 10, 'bold'))

self.conversation.tag\_config("right",foreground='green',font=('Verdana', 10, 'normal'))

self.conversation.see(tk.END)

self.conversation['state'] = 'disabled'

time.sleep(0.5)

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