🕠 🗥 My Sites 🕜 AMP Blog Home Q Search ... Data Science -Categories -Project – Alarm Clock with GUI ADVERTISEMENT BY ADRECOVER Project – Hangman Game in ... Project – Mad Libs Generator Project – Rock Paper Scissors Project – Dice Rolling Simula... Project – Password Generator Project – Currency Converter **Project – Text to Speech** Convert Text to Speech in Python Project – YouTube Downloader Project – Message Encode De... Project – Address Book Free Python course with 35 real-time projects Start Now!! Project – Keyboard Jump Ga... Learn how to convert your Text into Voice with Python and Google APIs Project – Fruit Ninja Game Text to speech is a process to convert any text into voice. Text to speech project takes words on digital devices and convert them into audio with a button Project – COVID-19 Spread A... click or finger touch. Text to speech python project is very helpful for people who are struggling with reading. Project – Tic Tac Toe Project – Simple Calculator **Project Prerequisites** Project – Snake Game To implement this project, we will use the basic concepts of Python, Tkinter, gTTS, and playsound libraries. Project – Library Managemen... Python Projects with Source ... • **Tkinter** is a standard GUI Python library that is one of the fastest and easiest ways to build GUI applications using Tkinter. 56 Open-source Python Proje... • gTTS (Google Text-to-Speech) is a Python library, which is a very easy library that converts the text into audio. • The **playsound** module is used to play audio files. With this module, we can play a sound file with a single line of code. Python Django Projects + Machine Learning Proje... + To install the required libraries, you can use pip install command: Deep Learning Projects pip install tkinter AI Projects pip install playsound Python Interview Questi...+ Download Python Text to Speech Project Code Python Quiz Please download the source code of Text to Speech Project: Python Text to Speech Text to Speech Python Project The objective of this project is to convert the text into voice with the click of a button. This project will be developed using Tkinter, gTTs, and playsound library. In this project, we add a message which we want to convert into voice and click on play button to play the voice of that text message. • Importing the modules • Create the display window • Define functions So these are the basic steps that we will do in this Python project. Let's start. 1. Import Libraries Let's start by importing the libraries: tkinter, gTTS, and playsound 1. from tkinter import * From gtts import gTTS 3. From playsound import playsound 2. Initializing window 1. root = Tk()geometry root.("350x300") root.configure(bg='ghost white') 4. root.title("DataFlair - TEXT TO SPEECH") • Tk() to initialized tkinter which will be used for GUI • **geometry()** used to set the width and height of the window • **configure()** used to access window attributes • **bg** will used to set the color of the background • **title()** set the title of the window Label(root, text = "TEXT_TO_SPEECH", font = "arial 20 bold", bg='white smoke').pack() Label(text ="DataFlair", font = 'arial 15 bold', bg ='white smoke', width = '20').pack(side = 'bottom') Msg = StringVar() Label(root, text = "Enter Text", font = 'arial 15 bold', bg = 'white smoke').place(x=20, y=60) entry_field = Entry(root, textvariable = Msg ,width ='50') 8. entry_field.place(x=20,y=100) **Label()** widget is used to display one or more than one line of text that users can't able to modify. • root is the name which we refer to our window • **text** which we display on the label • **font** in which the text is written • pack organized widget in block • **Msg** is a string type variable • Entry() used to create an input text field • **textvariable** used to retrieve the current text to entry widget • place() organizes widgets by placing them in a specific position in the parent widget 3. Function to Convert Text to Speech in Python 1. def Text_to_speech(): Message = entry_field.get() speech = gTTS(text = Message) speech.save('DataFlair.mp3') playsound('DataFlair.mp3') • **Message** variable will stores the value of entry_field • **text** is the sentences or text to be read. • lang takes the language to read the text. The default language is English. • **slow** use to reads text more slowly. The default is False. As we want the default value of lang, so no need to give that to gTTS. • **speech** stores the converted voice from the text • speech.save('DataFlair.mp3') will saves the converted file as DataFlair as mp3 file • playsound() used to play the sound 4. Function to Exit 1. def Exit(): root.destroy() root.destroy() will quit the program by stopping the mainloop(). 5. Function to Reset 1. def Reset(): Msg.set("") **Reset** function set Msg variable to empty strings. 6. Define Buttons Button(root, text = "PLAY", font = 'arial 15 bold', command = $Text_{to}$ speech, width = '4').place(x=25, y=140) Button(root, font = 'arial 15 bold', text = 'EXIT', width = '4', command = Exit, bg = 'OrangeRed1').place(x=100, y = 140) Button(root, font = 'arial 15 bold', text = 'RESET', width = '6', command = Reset).place(x=175, y = 140) **Button()** widget used to display button on the window 1. root.mainloop() **root.mainloop()** is a method that executes when we want to run our program. Python Text to Speech Project Output Summary We have successfully developed the text to speech python project. We used the popular tkinter library for rendering graphics on a display window, gTTs (google text to speech) library to convert text to voice, and playsound library to play that converter voice from the text. Did you know we work 24x7 to provide you best tutorials Please encourage us - write a review on Google | Facebook ADVERTISEMENT BY ADRECOVER Tags: Python project python project for beginners python text to speech text to speech convertor 28 RESPONSES Aashish Chandra O October 19, 2020 at 7:30 pm The project doesn't allow the play button to be used more than once on clicking. Once the play is clicked, second attempt doesn't work. I receive the following error on running the actual source code. Exception in Tkinter callback Traceback (most recent call last): File "C:\Users\aashi\anaconda3\lib\tkinter__init__.py", line 1705, in __call__ return self.func(*args) File "Text-to-Speech.py", line 43, in Text_to_speech speech.save('DataFlair.mp3') File "C:\Users\aashi\anaconda3\lib\site-packages\gtts\tts.py", line 294, in save with open(str(savefile), 'wb') as f: PermissionError: [Errno 13] Permission denied: 'DataFlair.mp3' <u>Reply</u> DataFlair Team O December 8, 2020 at 9:53 pm Yeah... You have to rerun the project to use the app again. It is because we are saving the mp3 file as dataflair.mp3 and if we use the play button twice from the same window then it will again try to create a new mp3 file with the same name which is not possible, so it will try to replace the existing dataflair.mp3 file which is not allowed and that's why it is showing permission denied. <u>Reply</u> Aravind © August 11, 2021 at 7:27 pm It would be easier to use pyttsx3 for text to speech. You don't have to save audio files in that. #Code # pip install pyttsx3 import pyttsx3 def speak(txt): engine = pyttsx3.init() engine.say(txt) engine.runAndWait() speak('hello') <u>Reply</u> Naveen Nagar O October 21, 2020 at 5:16 pm is there any tutorial on speech to text using python? <u>Reply</u> DataFlair Team () August 3, 2021 at 9:55 pm You can read the documentation of gTTS (Google Text-to-Speech) library which is available on the internet. It is a python library that acts as an interface with google Translate's text-to-speech API. <u>Reply</u> **Joseph** ① October 26, 2020 at 11:10 pm yeah. i faced it too. in the reset button, add a simple command to delete the existing dataflare.mp3 file. so when u press the reset button the mp3 file will be deleted and you don't get the above error. <u>Reply</u> DataFlair Team O December 8, 2020 at 9:56 pm That's a good option, based on the requirements we can update the project. <u>Reply</u> Shivam O January 3, 2021 at 6:59 pm What is the command to delete the existing dataflare.mp3 file. <u>Reply</u> **A** ① October 28, 2020 at 3:57 pm If like me, you don't want a reset button, you can simply add a line after "Playsound('DataFlair.mp3')" that deletes the file, therefore allowing you to repeatedly change what you're writing in the TTS without having to reset at all. <u>Reply</u> DataFlair Team O December 8, 2020 at 9:55 pm yeah, That's another option, and yes, based on the requirements we can update this python project as we have hand-coded the logic. <u>Reply</u> **Sandhya** ① <u>December 20, 2020 at 4:50 pm</u> Sir i am getting the same error. Plesae provide the solution to overcome this problem. <u>Reply</u> Satish Narasimhan 🕓 January 6, 2021 at 10:03 am You would need to import os library and add the following line in def Text_to_speech(): after playsound('T2S.mp3') os.remove('T2S.mp3') Worked for me <u>Reply</u> sanjeev prajapati () January 9, 2021 at 2:32 am sir, when i clicking on reset button, they are giving Permission denied. then ,how can remove Permission denied to play more than one string in single of running program? <u>Reply</u> DataFlair Team O August 3, 2021 at 9:56 pm You will have to rerun the program to play the sound again because if you rerun, it will try to create dataflair.mp3 file again i.e. with the same name, which will give permission denied error <u>Reply</u> **Jatin** ① <u>January 14, 2021 at 6:41 pm</u> sir i am getting this error, please help me with this Exception in Tkinter callback Traceback (most recent call last): File "C:\Users\jgaur\anaconda3\lib\tkinter__init__.py", line 1705, in __call__ return self.func(*args) File "C:/Users/jgaur/PycharmProjects/pythonProject1/TextToSpeech.py", line 43, in Text_to_speech speech.save('DataFlair.mp3') File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts\tts.py", line 295, in save self.write_to_fp(f) File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts\tts.py", line 251, in write_to_fp prepared_requests = self._prepare_requests() File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts\tts.py", line 194, in _prepare_requests part_tk = self.token.calculate_token(part) File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts_token\gtts_token.py", line 36, in calculate_token seed = self._get_token_key() File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts_token\gtts_token.py", line 71, in _get_token_key return self._get_token_key(retry=retry + 1) File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts_token\gtts_token.py", line 71, in _get_token_key return self._get_token_key(retry=retry + 1) File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts_token\gtts_token.py", line 71, in _get_token_key return self._get_token_key(retry=retry + 1) [Previous line repeated 2 more times] File "C:\Users\jgaur\anaconda3\lib\site-packages\gtts_token\gtts_token.py", line 68, in _get_token_key "Unable to find token seed! Did https://translate.google.com change?" ValueError: Unable to find token seed! Did https://translate.google.com change? <u>Reply</u> DataFlair Team () August 3, 2021 at 10:03 pm It was because there were some changes in gtts but now it is working fine. Please download the project and try again. <u>Reply</u> **sai** ① <u>March 9, 2021 at 10:10 am</u> Instead try this function, def Text_to_speech(): Message = entry_field.get() speech = gTTS(text = Message) speech.save(f{Message}.mp3') playsound(f'{Message}.mp3') os.remove(f'{Message}.mp3') <u>Reply</u> **aditya** ① March 9, 2021 at 9:23 pm Can i get Data flow diagram of text to speech ..? <u>Reply</u> **Pratap Singh** ① March 21, 2021 at 11:16 pm import os def Text_to_speech(): Message = entry_field.get() speech = gTTS(text = Message) speech.save('bhanu.mp3') playsound('bhanu.mp3') os.remove('bhanu.mp3') <u>Reply</u> **Rasna** ① May 7, 2021 at 6:48 pm while installing tkinter I am getting an error as below, what do I do? ERROR: Could not find a version that satisfies the requirement tkinter (from versions: none) ERROR: No matching distribution found for tkinter Plz respond as sson as possible. <u>Reply</u> **Anuu** ① May 7, 2021 at 7:06 pm Same problem regarding tkinter installation, even after updating the version it is still giving the error and have even tried using tk interface but still the same error. Please respond what can be done... <u>Reply</u> **Anushka** ① May 7, 2021 at 7:05 pm Same problem regarding tkinter installation, even after updating the version it is still giving the error and have even tried using tk interface but still the same error. Please respond what can be done... <u>Reply</u> **Aravind** ① <u>August 11, 2021 at 7:28 pm</u> It would be easier to use pyttsx3 for text to speech. You don't have to save audio files in that. #Code # pip install pyttsx3 import pyttsx3 def speak(txt): engine = pyttsx3.init() engine.say(txt) engine.runAndWait() speak('hello') <u>Reply</u> Vani Perumal (1) January 26, 2022 at 2:56 pm Great. This is working perfectly. <u>Reply</u> geetanshu mamgain O September 15, 2021 at 10:19 am please update this: root = Tk()root.geometry ("350×300") root.configure(bg='ghost white') root.title("DataFlair – TEXT TO SPEECH") Ashika siddhi O October 24, 2021 at 4:48 pm text to smooth speech conversion is possible with this? <u>Reply</u> Pratham Panwar ① November 20, 2021 at 11:22 am i am unable to run pip install tkinter which version of python to use?? <u>Reply</u> Harel Cohen (1) January 4, 2022 at 3:00 am Someone can help me please "C:\Users\Harel Cohen\AppData\Local\Programs\Python\Python39\python.exe" "C:/Users/Harel Cohen/PycharmProjects/pythonProject/Text_to_Speech.py" Error 259 for command: play DataFlair.mp3 wait The driver cannot recognize the specified command parameter. Exception in Tkinter callback Traceback (most recent call last): File "C:\Users\Harel Cohen\AppData\Local\Programs\Python\Python39\lib\tkinter__init__.py", line 1892, in __call__ return self.func(*args) File "C:\Users\Harel Cohen\PycharmProjects\pythonProject\Text_to_Speech.py", line 27, in Text_to_speech playsound('DataFlair.mp3') File "C:\Users\Harel Cohen\AppData\Local\Programs\Python\Python39\lib\site-packages\playsound.py", line 73, in _playsoundWin winCommand(u'play {}{}'.format(sound, 'wait' if block else ")) File "C:\Users\Harel Cohen\AppData\Local\Programs\Python\Python39\lib\site-packages\playsound.py", line 64, in winCommand raise PlaysoundException(exceptionMessage) playsound.PlaysoundException: Error 259 for command: play DataFlair.mp3 wait The driver cannot recognize the specified command parameter. Process finished with exit code o <u>Reply</u> LEAVE A REPLY This site is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.

Howdy, Erick W Daniel 🚣 🛛 🔾

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