



TEXT TO SPECH

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INTRODACTION

Text to speech converters convert text into speech using various algorithms. They have multiple applications Generally, python Text to speech converters operate via CLI only if you have an active internet connection, but for this project, we will create a GUI python Text to speech converter which you can operate from your computer offline as well.



PROJECT PREREQUISITES

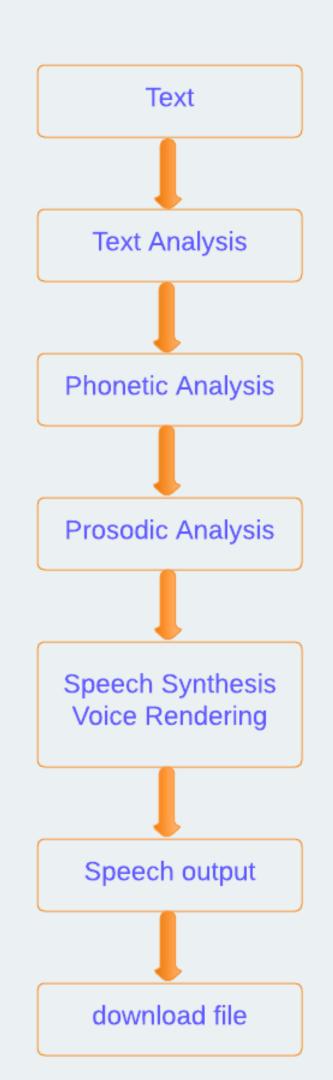
Tkinter –

To create a GUI for the project

To convert text to speech; it will be used as TTS Conversion engine.

FLOWCHART

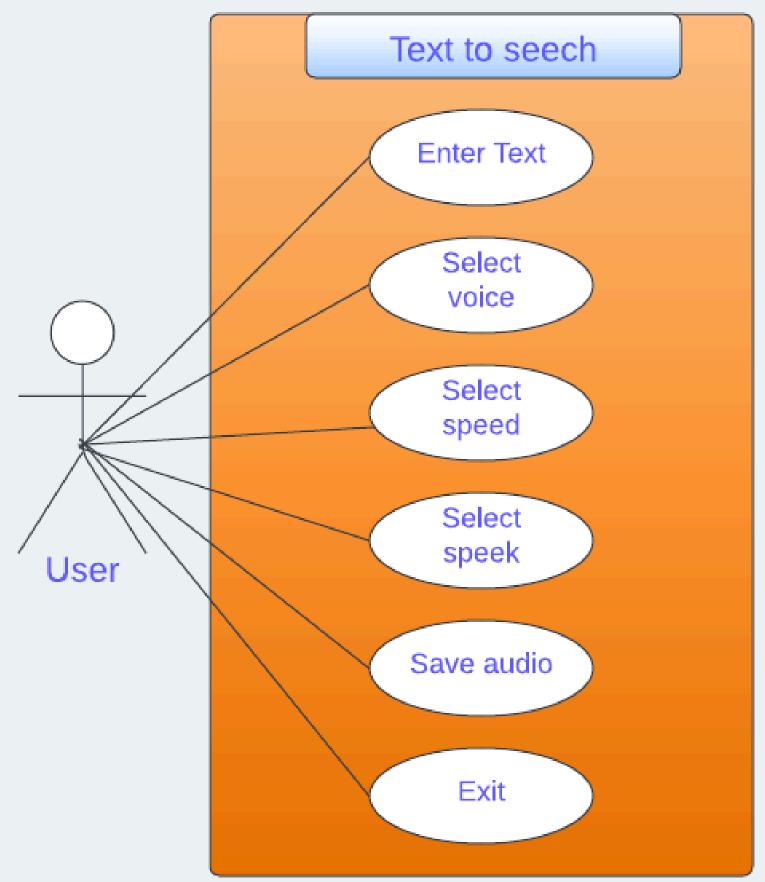
separate steps of a process in sequential order.





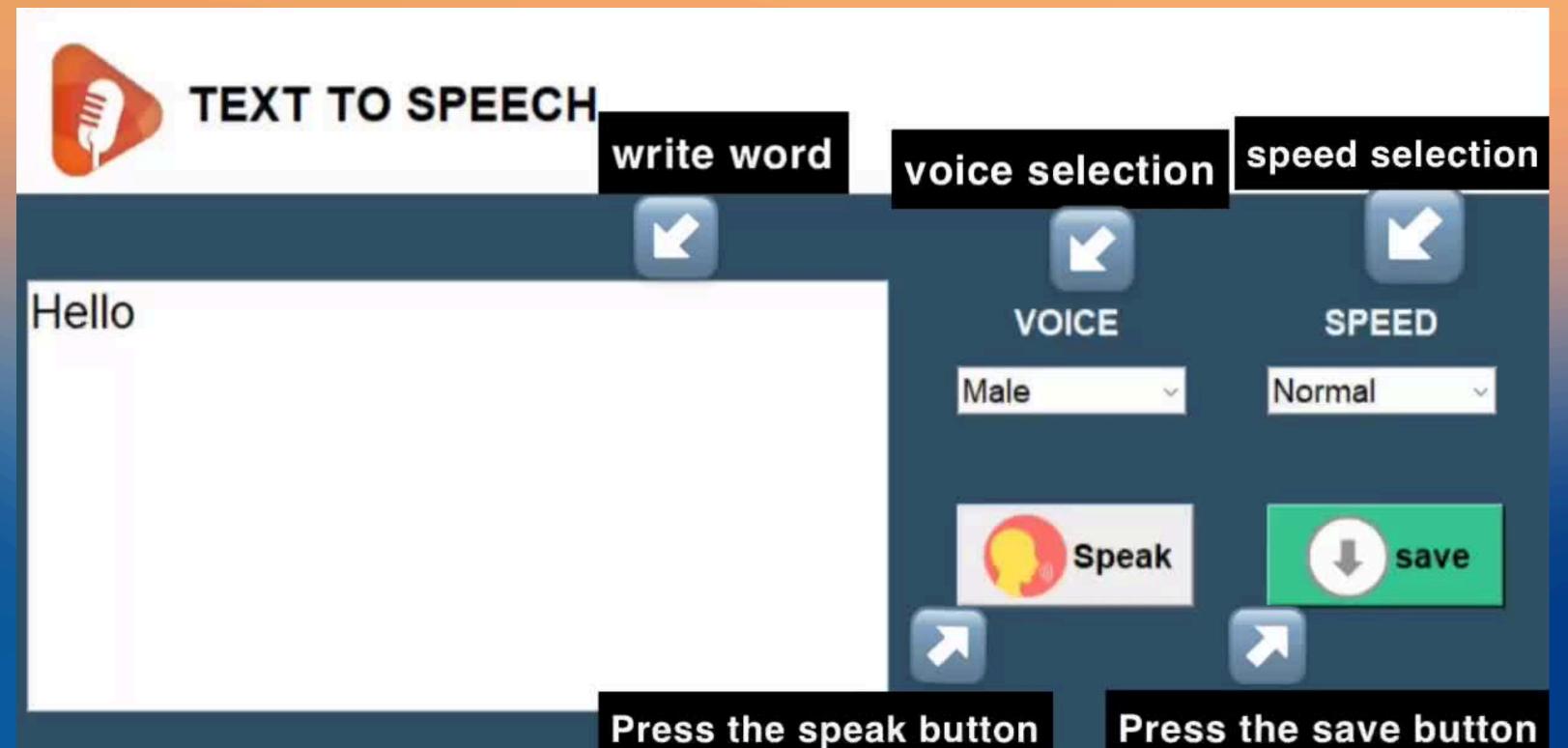
DESIGN PHASE





COMPONENT OF GUI

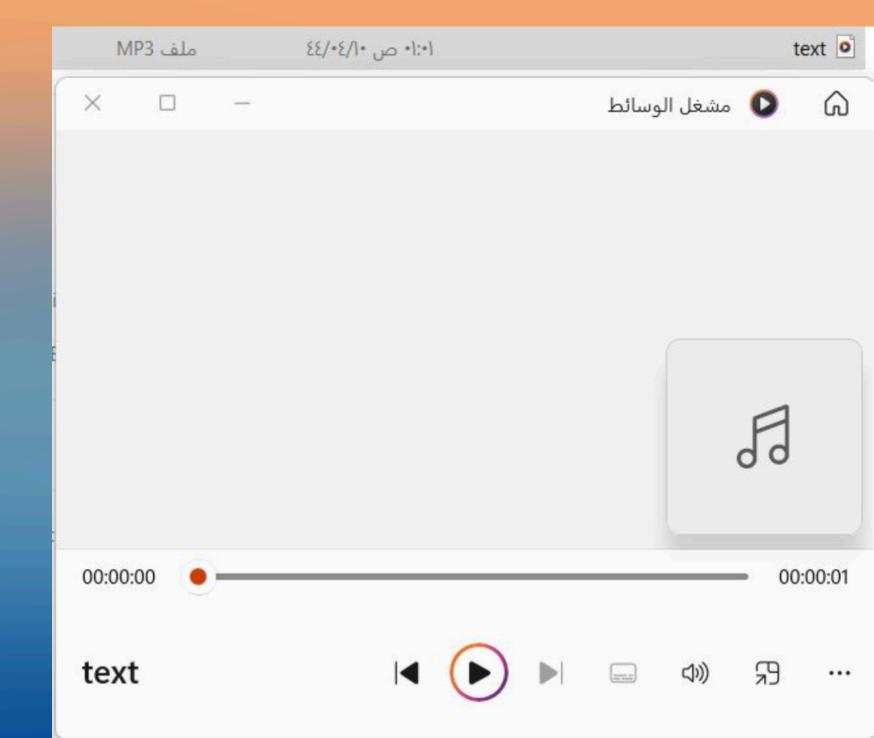






DOWNLOAD

In any place in your device



TESING

```
File Edit Format Run Options Window Help
import tkinter as tk
from tkinter import *
from tkinter import filedialog
from tkinter.ttk import Combobox
import pyttsx3
import os
root=Tk()
root.title("text to speech with N&N")
root.geometry("900x450+200+200")
root.resizable(False, False)
root.configure(bg="#305065")
engine=pyttsx3.init()
def speaknow():
    text=text area.get(1.0,END)
    gender=gender combobox.get()
    speed=speed combobox.get()
   voices=engine.getProperty('voice')
   def setvoice():
        #start conditions
        if (gender=='Male'):
            voices = engine.getProperty('voices') #byR
            engine.setProperty('voice', voices[0].id)
            engine.say(text)
            engine.runAndWait()
        else:
            voices = engine.getProperty('voices') #byR
            engine.setProperty('voice', voices[1].id)
            engine.say(text)
            engine.runAndWait()
   if (text):
        if (speed=="Normal"):
            engine.setProperty('rate',150)
            setvoice()
        else:
            engine.setProperty('rate',60)
            setvoice()
```

NOW

WILL BE TRY IT TOGETHER

```
def download():
    text=text area.get(1.0,END)
    gender=gender combobox.get()
    speed=speed combobox.get()
    voices=engine.getProperty('voice')
    def setvoice():
        if (gender=='Male'):
            voices = engine.getProperty('voices')
            engine.setProperty('voice', voices[0].id)
            path=filedialog.askdirectory()
            os.chdir(path)
            engine.save to file(text, 'text.mp3')
            engine.runAndWait()
        else:
            voices = engine.getProperty('voices')
            engine.setProperty('voice', voices[1].id)
            path=filedialog.askdirectory()
            os.chdir(path)
            engine.save to file(text, 'text.mp3')
            engine.runAndWait()
    if (text):
        if (speed=="Normal"):
            engine.setProperty('rate',150)
            setvoice()
        else:
            engine.setProperty('rate',60)
            setvoice()
image icon=PhotoImage(file="C:\\Users\\win\\\Downloads\\speak.png.png")
root.iconphoto(False ,image icon)
Top frame=Frame (root, bg="white", width=900, height=100)
Top frame.place(x=0, y=0)
Logo=PhotoImage(file="C:\\Users\\win\\Downloads\\speaker logo.png")
Label (Top frame, image=Logo, bg="white").place(x=10, y=5)
Label (Top frame, text="TEXT TO SPEECH", font="arial 20 bold", bg="white", fg="black").place(x=100, y=30)
text area=Text (root, font="Roboter 20", bg="white", relief=GROOVE, wrap=WORD)
text area.place(x=10, y=150, width=500, height=250)
Label (root, text="VOICE", font="arial 15 bold", bg="#305065", fg="white").place(x=580, y=160)
Label (root, text="SPEED", font="arial 15 bold", bg="#305065", fg="white").place(x=760, y=160)
gender combobox=Combobox(root, values=['Male', 'Female'], font="arial 14", state='r', width=10)
gender combobox.place(x=550,y=200)
gender combobox.set('Male')
speed_combobox=Combobox(root, values=['Normal', 'Slow'], font="arial 14", state='r', width=10)
speed combobox.place(x=730,y=200)
speed combobox.set('Normal')
imageicon=PhotoImage(file="C:\\Users\\win\\\Downloads\\speak.png.png")
```



THANK YOU