

Q1) How to Make your own Music Player in Python?

Ans:

Music Player is a system using which one can listen to music files stored in the phone's internal or external memory.

In advance language like python music player can be made easily through the use of basic libraries.

I have used the following libraries for making a music system

1. tkinter
2. os
3. random
4. sys
5. Pygames

link of code file:-

<https://github.com/shyamal18122000/Music-player-system/blob/main/code%20for%20music%20play%20system.ipynb>

if one want to play a random music then he has to press 1 when it is asked that "press 1 if want a random song or press 0 if want to choose yourself: " otherwise press 0 as it is mentioned and if he press 1 and want to play a random music he is asked whether he want to specify any folder or not with there statement "press 0 if want to specify path of folder for music or press 1 if want don't want to specify path: " if he press 0 he is asked to specify path by statement "Enter directory path: " and if he press 1 just a random folder will open and a music will be played. If he press 0 when it is asked that "press 1 if want a random song or press 0 if want to choose yourself: " so he is asked to specify path by statement "Enter directory path: " and after specifying it a window pop out as seen in the below screenshot and he can choose any music from there and can play it.



The status of song can be seen in the following red circle



output images for all cases as specified above:-

Want to play a music from specific place and specific one:-

```
Something wrong with specified          directory. Exception- (<class 'FileNotFoundError'>, FileNotFoundError(2, 'The system c
annot find the path specified'), <traceback object at 0x0000013AF9B5D1C8>)
Restoring the path
Current directory is- C:\Users\shyam
press 1 if want a random song or press 0 if want to choose yourself: 0
Enter directory path: Music
```

Want to play a from a random folder and a random one:-

```
Something wrong with specified          directory. Exception- (<class 'FileNotFoundError'>, FileNotFoundError(2, 'The system c
annot find the path specified'), <traceback object at 0x0000013AF9B611C8>)
Restoring the path
Current directory is- C:\Users\shyam\Music
press 1 if want a random song or press 0 if want to choose yourself: 1
press 0 if want to specify path of folder for music or press 1 if want don't want to specify path: 1
Playing random song
First random pick: 0 Saathi (Baaghi 2) 128 Kbps.mp3
Song name: 0 Saathi (Baaghi 2) 128 Kbps.mp3

An exception has occurred, use %tb to see the full traceback.

SystemExit
```

Want to play a from a specified folder and but a random music:-

---

```
Something wrong with specified          directory. Exception- (<class 'FileNotFoundError'>, FileNotFoundError(2, 'The system c
annot find the path specified'), <traceback object at 0x000001D4ABB65BC8>)
Restoring the path
Current directory is- C:\Users\shyam
press 1 if want a random song or press 0 if want to choose yourself: 1
press 0 if want to specify path of folder for music or press 1 if want don't want to specify path: 0
Enter directory path: Music
Playing random song
First random pick: desktop.ini
Not an MP3 file : desktop.ini
Not an MP3 file : desktop.ini
Song name: 0 Saathi (Baaghi 2) 128 Kbps.mp3

An exception has occurred, use %tb to see the full traceback.

SystemExit
```

One can also remove the reset to default path by removing the following line of codes and in turn before restart of the kernel the directory will be kept open and hence work will be reduced.

```
# initial directory
cwd = os.getcwd()
# some non existing directory
fd = 'false_dir / temp'
# trying to insert to flase directory
try:
    os.chdir(fd)
    print("Inserting inside-", os.getcwd())
except:
    print("Something wrong with specified\
        directory. Exception- ", sys.exc_info())
finally:
    print("Restoring the path")
    os.chdir(cwd)
    print("Current directory is-", os.getcwd())
```

Note:- As specified by me in the code only file having extension .mp3 can only be played when choosing a random music. When choosing a random music the default music player will only work and therefore that particular window will only open.