

# The MusicPlayer UI

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## Team

- Vignesh E M (2014506059)
- Krishnamoorthi K (2014506025)
- Vinoth D (2014506060)

## Aim

The Aim of the project is to simulate the User Interface of a simple Music Player using the C Programming language.

## Overview

The **MusicPlayer** is just a User Interface that imitates how a simple Music Player works. We have implemented almost every operation performed on a simple Music Player. The sole purpose being designing a UI, it requires a UI-File link to play a song which is not implemented.

## Technology

We have implemented this **MusicPlayer** UI using various abstract data types namely,

- Stacks
- Queues
- Trees

## Development Tools

- Dev-C++ 5.9.2 IDE
- TDM-GCC 4.8.1 debug Compiler

## Modules

### Play/Pause

- The Play/Pause module is used to play a song when it is paused or pause a song when it is playing. You cannot play a song without queuing.

```
C:\Users\AAdal krish\Desktop\TMP\mpv1.exe

The MusicPlayer
1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?1

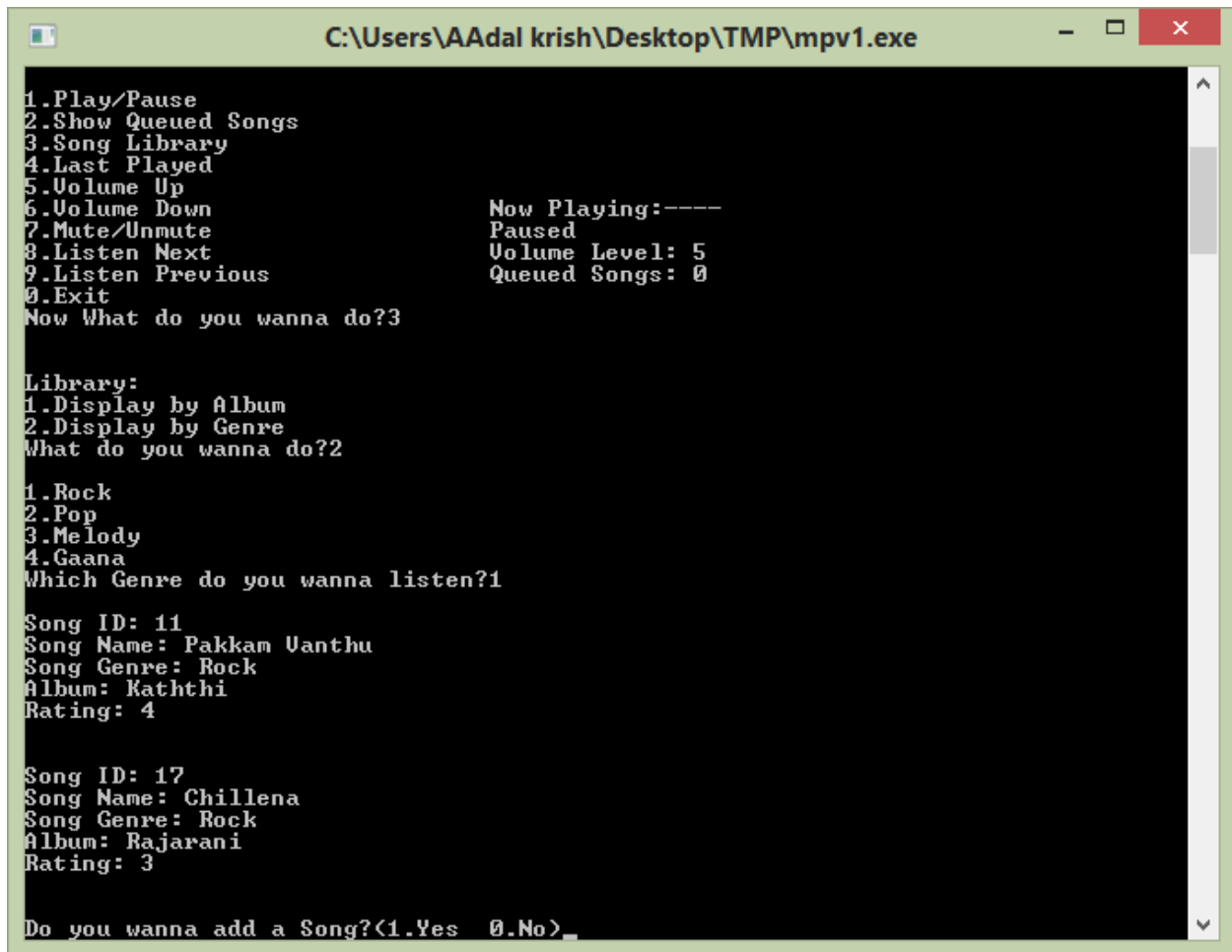
Now Playing:----
Paused
Volume Level: 5
Queued Songs: 0

Cannot Play.No Songs Queued.
The MusicPlayer

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?
```

### Song Library

- This module opens the Library and shows the songs sorted by Album to which it belongs and Genre.



```
C:\Users\AAdal krish\Desktop\TMP\mpv1.exe

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?3

Now Playing:----
Paused
Volume Level: 5
Queued Songs: 0

Library:
1.Display by Album
2.Display by Genre
What do you wanna do?2

1.Rock
2.Pop
3.Melody
4.Gaana
Which Genre do you wanna listen?1

Song ID: 11
Song Name: Pakkam Uanthu
Song Genre: Rock
Album: Kaththi
Rating: 4

Song ID: 17
Song Name: Chillena
Song Genre: Rock
Album: Rajarani
Rating: 3

Do you wanna add a Song?(1.Yes 0.No)
```

- Once you add songs to the Queue, you will be able to play songs.

### Show Queued Songs

- This module shows all the Songs Queued.

```

C:\Users\AAdal krish\Desktop\TMP\mpv1.exe

Enter the Song ID to be added:5
The Song is Queued.
Do you wanna add a Song?(1.Yes 0.No)1

Enter the Song ID to be added:8
The Song is Queued.
Do you wanna add a Song?(1.Yes 0.No)0

                The MusicPlayer

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?2

The Queued Songs:

Song:Come on Girls
Genre:Melody

Song:Roja Kadale
Genre:Pop

Now Playing: Come on Girls
Paused
Volume Level: 5
Queued Songs: 2

```

### Listen Next

- This module allows you to listen to the next song in the Queue.

```

C:\Users\AAdal krish\Desktop\TMP\mpv1.exe

The Next Song is Playing...
                The MusicPlayer

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?_

Now Playing: Roja Kadale
Playing
Volume Level: 5
Queued Songs: 1

```

## Listen Previous

- This module is used to play the song that you played just before the Current song.

```

C:\Users\AAdal krish\Desktop\TMP\mpv1.exe
0.Exit
Now What do you wanna do?9

The Previous Song is Playing...
    The MusicPlayer

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
Now Playing: Come on Girls
Playing
Volume Level: 5
  
```

## Volume Up/Down

- This is used to increase and decrease the volume.

```

C:\Users\AAdal krish\Desktop\TMP\mpv1.exe
The MusicPlayer

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?5

The MusicPlayer

1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do?5
Now Playing: Come on Girls
Playing
Volume Level: 6
Queued Songs: 2
  
```

**Mute/Unmute**

- This is used to mute and unmute the Volume.

```

C:\Users\AAdal krish\Desktop\TMP\mpv1.exe

The MusicPlayer
1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do??

Now Playing: Come on Girls
Playing
Volume Level: 7
Queued Songs: 2

Muted

The MusicPlayer
1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do??

Now Playing: Come on Girls
Playing
Volume Level: 0
Queued Songs: 2

Unmuted

The MusicPlayer
1.Play/Pause
2.Show Queued Songs
3.Song Library
4.Last Played
5.Volume Up
6.Volume Down
7.Mute/Unmute
8.Listen Next
9.Listen Previous
0.Exit
Now What do you wanna do??

Now Playing: Come on Girls
Playing
Volume Level: 7
Queued Songs: 2

```

### **Exit**

- This is used to Exit from the Music Player.

### **Thank You Note**

We finally thank **Miss. M. Hemalatha**, Assistant Professor, Department of Information Technology, for helping us and guiding us throughout the Course.