Software Assignment
AI1110: Probability and Random Variables
Indian Institute of Technology, Hyderabad

CS22BTECH11009

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1 DESCRIPTION

I have developed a music player "MyMusic" using the Pygame library of Python. The music player allows users to do the following action within a given playlist:

1) Play: Clicking the Play button starts playing the songs
2) Pause: It pauses the currently playing song.
3) Next: It moves to the next song in the playlist
4) Previous: It goes to the previous song of the playlist

It also shows the name of Current Playing Song. This project also includes generating a random permution of the given playlist.

2 RANDOM PERMUTAION OF PLAYLIST

I have created a list having values from 0 to 19. And used np.random.shuffle function to generate the random permution. In this way each of the 20! permutations of the playlist are equally probable.

3 CONCLUSION

The Python music player "MyMusic" project provides a graphic interface for playing songs. It allows users to control playback of Songs. The project includes functionalities of the Numpy library to shuffle the given playlist.
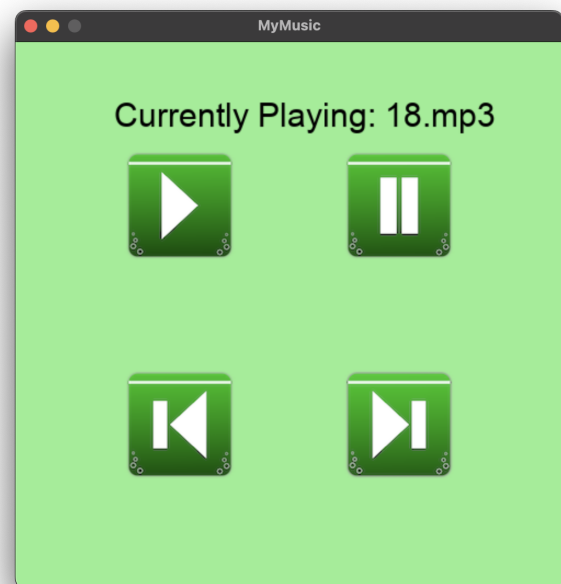

Fig. 1: MyMusic