

Report on Music Player Application

Overview:

Created using Python and the Tkinter GUI framework, the "Offline Music Player" is a basic music player application. It lets users go through a list of songs and play, pause, and stop them. Users can also fast-forward to a certain moment in the music that is presently playing.

Features:

Song Choice: A list of songs that are accessible in the designated directory is provided by the program. By clicking on it, users may choose a song from the playlist.

Regulators:

- 1) **Play:** Starts the chosen music to be played back.
- 2) **Stop:** Ends the music that is presently playing.
- 3) **Hold:** Holds back the playback.
- 4) **Continue:** Continues playing after a pause.
- 5) **Previous and Next:** Takes you to the music that comes before or after it in the playlist.

Time Leap: The "Jump to Time" slider allows listeners to jump to a certain segment of the song's length. Based on the chosen time, the program recalculates the playback position.

Progress Bar: The present playback position in relation to the song's overall duration is graphically represented by a progress bar.

Implementation:

Tkinter Graphical User Interface: creates the graphical user interface using Tkinter. includes labels, buttons, and a progress bar to provide users with an engaging experience.

Pygame with Audio Reproduction: Audio playback is managed via the Pygame library. Playing and loading songs is done with `pygame.mixer.music`. While the music is playing, the program refreshes the song data and progress bar.

Track Navigation: Users may use the "Previous" and "Next" buttons to go through the playlist. The program automatically advances to the next song in the playlist when one ends.

The Jump-to-Time function: incorporates a function that lets listeners advance to a certain point in the song that is now playing.

Application:

1. Launch the software.
2. Choose a tune from the collection.
3. To control playback, use the play, stop, pause, and continue buttons.
4. Using the previous and next buttons, you may move between tracks.
5. You may jump to a certain section of the song by using the "Jump to Time" slider.

