**Music Player & Management System**

**Problem Statement**

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* **Introduction :**

Building a simple audio player with basic controls like play, pause, forwards, backward, next previous and seek bar is done since long.

Our music player ‘Beatboxer’ will read all .mp3 files from the selected directory and play selected songs. The user can create and modify their playlists. ‘Beatboxer’ will also be able to adjust volume levels according to the type of music.

The player offers different playing modes like:

* Gym mode
* Driving mode
* Party mode
* Soothing mode
* **Features:**

1. The user will be able to

* Play/Pause a track
* Seek the time slider to jump to a specific time
* Go to next/previous song
* Shuffle all the tracks in now playing list
* Repeat (all/none)
* Volume Control

1. Automatically add directories containing .mp3 files

The ‘Beatboxer’ will scan selected directories for available .mp3 files and add them to the ‘Beatboxer’ database.

1. Automatic Volume Level Adjustment

‘Beatboxer’ will automatically adjust volume level according to the current track to deliver best music experience to the user.

1. Sleep Timer

User can set a timer (max 90 minutes) after which ‘Beatboxer’ will automatically stop playing songs.

1. Editing Track Info

‘Beatboxer’ allows user to edit the track info according to their choice.

1. Playlist

User can create/delete their playlist and add/remove songs of their choice in it.

‘Beatboxer’ also allows user to set the track order of tracks in the playlist according to their choice.

‘Beatboxer’ also offers two already created playlists:

* All Songs – Contains all songs in the database.
* Favourites – User can add/remove any track from Favourites by clicking the star button.
* Recently Added – Recently added (24 hours) track appear in recently added playlist and get removed with time.

1. Search

‘Beatboxer’ allows user to search for any particular song, artist or album.

User can directly play search results from the search result box.

1. Modes

User can select any of the given modes – Gym, Driving, Party or Soothing according to their mood and ‘Beatboxer’ will play songs having genre of chosen mode type.