

# CaribBeats

Caribbean Chaos Collective

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# 01

## Background

# PROJECT SUMMARY

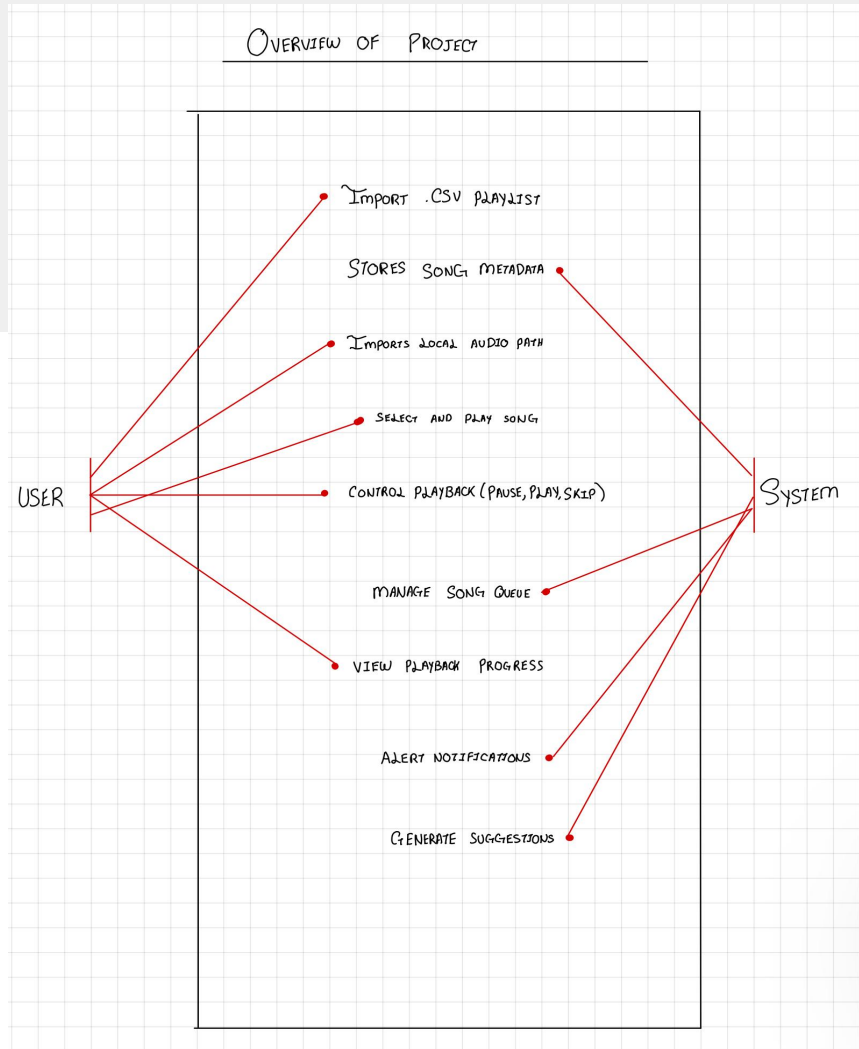
The overall goal of the project is to develop an application that enhances the music listening experience for fans of soca and dancehall by providing a unique and seamless way to organize and play playlists based on the tempo of each track. By focusing on the tempos of each song in these genres, the application aims to create a dynamic playlist experience that maintains a consistent musical flow, thereby enriching the listener's experience and engagement with the music.

This program aims to address the issue that existing media players do not automatically curate playlists based on the tempo and beat patterns but instead, songs are played in the order in which they were added to the playlist or a random shuffle. This program should eliminate the abrupt transitions between tracks and enhance the listener's experience.

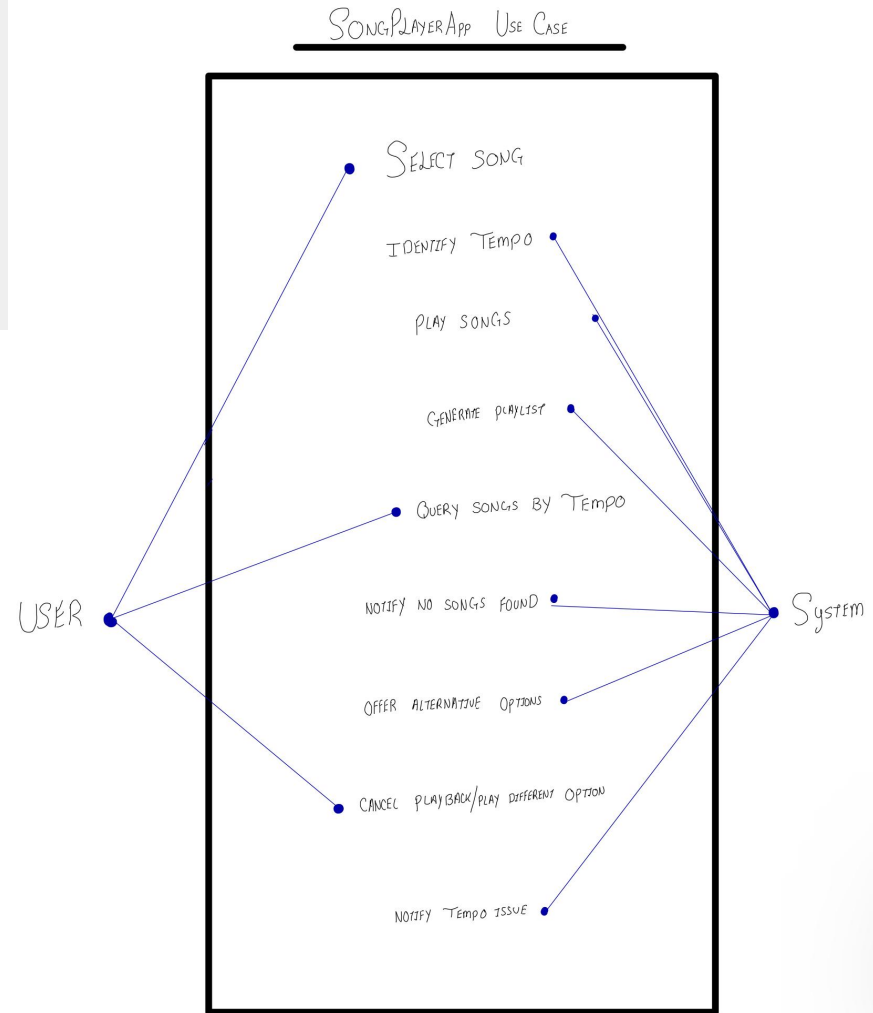
02

Diagrams

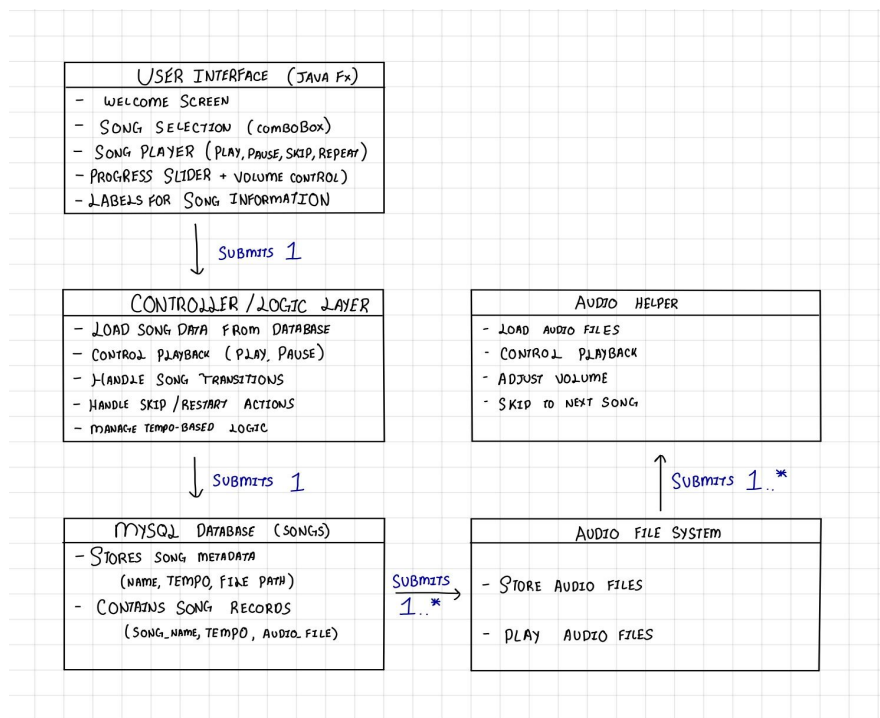
# Use Diagram



# Use Diagram



# Class Diagram





# Sample Database (Song Tables)

song_id	playlist_id	spotify_song_id	song_name	artist_name	tempo	audio_file
1	NULL	NULL	Jub Jub	Kes, Tano	105.950	C:\Users\abiga\OneDr
2	NULL	NULL	Trini Gyal	Mical Teja	106.040	C:\Users\abiga\OneDr
3	NULL	NULL	Grown Up	Patrice Roberts	106.050	C:\Users\abiga\OneDr
4	NULL	NULL	Lifeline	Erphaan Alves, Tano	106.030	C:\Users\abiga\OneDr
11	NULL	NULL	DNA	Mical Teja	128.074	C:\Users\abiga\OneDr
12	NULL	6UrcpxooHisuiZHZUa6cwU	Shake The Place	Machel Montano, Destra	160.072	C:\Users\abiga\OneDr
13	NULL	6A5hSpa9QSlGE6eZJOC3yA	Carnival Contract	Bunji Garlin	150.029	C:\Users\abiga\OneDr
14	NULL	6n9vdJAohSVie0DuXB4db	Bottle over Head - Remix	Wetty Beatz, Triniboi Joojie, Aloman	129.969	C:\Users\abiga\OneDr
15	NULL	3Gwcl1cfEnTCYTIL8VN1W	Tack Back	Kes, Tano	109.967	C:\Users\abiga\OneDr
16	NULL	1nYSSsFMMkPsnNMFzFh6M4	Runaway	Mical Teja	107.991	C:\Users\ahina\OneDr

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Team Member Contributions

# Team Contribution



Michaela A. Zias

Abigail Riley

The team was lead by Abigail Riley and the tasks were distributed as below:

**Abigail** - Design and create the SQL database schema to store playlist data, create the necessary SQL tables and relationships, develop the interface that allows users to upload CSV files from their local system, and store audio file path, Integrate a media player within the GUI to handle song playback, create SQL queries to call songs based on conditional statements.

**Michaela** - Design GUI layout, design and develop the user interface for the application, create screens for playlist management (importing, viewing, and editing playlists), as well as playback controls (play, pause, skip), implement conditional statements in Java that determine the next song to play based on the current song's tempo.

Integration Testing & Documentation / Code Review - **both**

04

Demo

# THANK YOU

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