MelodyHub

A UI/UX Project, an in-depth case study designed to revolutionize the way users discover songs, and share music.

About

The Music Listening App is a modern, AI-powered music platform designed to provide users with a personalized, emotional, and interactive listening experience. Unlike traditional streaming apps, this project focuses on understanding user moods, supporting social music sharing, and bridging language barriers through intelligent translation.

This app integrates AI technologies such as mood detection, humming-based song recognition, and lyrics translation, creating a seamless connection between music, emotion, and technology. It also introduces social interaction features like group listening rooms and song dedication, allowing users to engage with friends and loved ones through music.

The project demonstrates strong UI/UX design principles with a focus on accessibility, emotional design, and user satisfaction. The goal is to make music not just something users listen to — but something they feel, share, and connect with emotionally.

Problem Statement

Most music streaming apps today provide similar experiences with playlists and recommendations, but they lack emotional intelligence and advanced personalization. Users struggle to find songs that match their current mood, hummed tune, or to share a personal connection through music. There's also a lack of real-time group interaction while listening together, and multilingual lyric accessibility remains limited.

Solution Statement

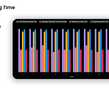
The proposed Music Listening App aims to deliver a smarter, emotionally adaptive, and socially engaging music experience using AI technology. By introducing features like Mood-Based Playlist Generator, Group Listening Room, AI Humming Detection, Song Dedication, and In-App Lyrics Translation, the app personalizes music discovery, enhances social bonding, and supports multilingual inclusivity

Qualitative Metrics

User Satisfaction	How enjoyable and easy the app feels to use
Emotional Connection	How well the app matches music to the user's mood
Accessibility	Ease of using translation and mood detection features
Social Engagement	How effectively users interact through group listening and dedications
Interface Aesthetics	Visual appeal and clarity of the UI design

Quantatative Metrics

User Retention Rate
Average Listening Time
Playlist Accuracy
Song Recognition
User Growth Rate



Comparission Table

	Spotify	Apple Music	YouTube Music	Shazam
Mood-Based Playlist	✗	✗	✗	✓
Group Listening Room	✗	✗	✗	✓
Song Find by Humming	✗	✗	✗	✓
Song Dedication	✗	✗	✗	✓
In-App Lyrics Translation	✗	✗	✗	✓

New Features

User Persona

Name: Rahul Kumar
Age: 21
City: Tamilnadu
Occupation: College Student
Pain Points: Checks the language learning mode to watch a dramaticlange with friends

Goal

Experience the joy of music as a shared emotional journey. Want to listen with friends on a party, cooking, going for road trips, or joining virtual listening rooms, music becomes more meaningful when it's social. Connect through sound, keep conversations flowing, and make genre you never knew you'd enjoy.

Social Profile

Favourite Brands

Motivation

Music serves as a universal language that helps people express deep emotions and foster meaningful connections across cultures and experiences.

Tech Exposure

Target Audience

Interface Aesthetics Matter	Socially Tuned	Smart Tech Enthusiast	Daily Music Ritual
Prefers apps with smooth UI and dark/light themes. Enjoys applications that offer a visually pleasing and easy-to-use experience, with customizable themes like dark mode for nighttime use and light mode for daytime comfort.	Active on social media and enjoys sharing songs. Regularly engages with trending music on platforms like TikTok or Instagram Reels, playlists, and musical moments with friends and followers.	Uses AI-powered apps for productivity and entertainment. Leverages cutting-edge AI tools for music discovery, lyrics translation, and personalized mood content—whether it's music, writing, or streaming.	Listens to music daily via mobile devices and earphones. Music is a constant companion, accompanying commutes, workouts, and personal moments with earphones enhancing continuous, immersive listening.
More Info...	More Info...	More Info...	More Info...

User Flow

Low Fedility Screens

High Fidlity Screens

High Fidlity Screens

Now Playing

Goal

01 Create an aesthetic and intuitive UI suitable for all users

02 Deliver a personalized and emotional music experience

03 Promote inclusivity through multilingual lyric support

04 Enable users to connect through shared listening

05 Simplify song discovery using AI technology

Conclusion

The Music Listening App project demonstrates the power of combining AI technology, emotional intelligence, and social interaction in music streaming. Unlike traditional apps, this platform offers personalized music experiences through features like Mood-Based Playlist Generator, AI Humming Song Search, Group Listening Rooms, Song Dedication, and In-App Lyrics Translation.

By focusing on UI/UX design principles, the app ensures a smooth, intuitive, and visually appealing interface that engages users effectively. It addresses common user challenges such as finding songs that match moods, discovering forgotten tunes, sharing music with friends, and enjoying multilingual lyrics seamlessly. The project highlights how technology can enhance emotional connection and social engagement in everyday digital experiences. It also serves as a practical demonstration of modern app design techniques, including low-fidelity and high-fidelity prototypes, user flow analysis, and feature innovation.

Overall, this app not only meets the current needs of music lovers but also introduces unique features that improve personalization, collaboration, and accessibility — setting a new benchmark for next-generation music streaming apps.