MUSIC STREAMING APP

NAAN MUDHALVANUI / UX

Submitted by

ISWARYALAKSHMI S - 421323104021

NM1020-UI / UX

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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PROBLEM STATEMENT:

In the current digital music landscape, users face several challenges when streaming music. Although many platforms provide access to large song libraries, users often experience limited personalization, difficulty discovering new artists, and a lack of social engagement. Additionally, independent artists struggle to gain visibility among popular mainstream music, while listeners are overwhelmed by the volume of content and generic recommendations.

How could a music-streaming application be designed that provides personalized recommendations and increases music discovery by users, while ensuring fairness in visibility and engagement for artists?

SOLUTION:

We propose to develop a smart music streaming application that uses AI-driven personalization, social integration, and artist–listener engagement tools to create a more immersive and inclusive music experience.

KEY FEATURES AND SOLUTIONS:

- Personalized Music Recommendations
- Use machine learning algorithms to analyze user listening habits, moods, and preferences.
- Curate smart playlists and daily mixes tailored to each user’s taste.

- Enhanced Music Discovery
- Implement a “Discover” section that highlights trending tracks, new artists, and region-based music
- Allow users to explore music based on mood, activity, or genre.
- Artist Visibility & Fair Exposure
- Provide independent artists with tools to upload music, track engagement analytics, and connect directly with fans.
- Use a transparent recommendation system that doesn’t favor only popular artists.
- Community & Social Interaction
- Let users share playlists, follow friends, and see what others are listening to in real time.
- Introduce collaborative playlists and in-app music chatrooms.
- Offline Mode & Cross-Device Sync
- Enable offline downloads with high-quality playback.
- Ensure a seamless experience across mobile, desktop, and smart devices.
- User-Friendly Interface
- Simple, visually appealing UI/UX with dark and light themes.
- Easy navigation with quick access to library, playlists, and recommendations.

ABOUT PROJECT:

The Music Streaming App is a digital platform designed to provide users with seamless access to a wide range of songs, albums, and playlists from artists around the world. The project aims to create a user-friendly and feature-rich application that allows users to stream, manage their favorite music anytime and anywhere. It focuses on delivering a high-quality listening experience through an intuitive interface, efficient search options, and personalized recommendations.

The main objective of this project is to develop a cross-platform music streaming service that offers smooth playback, smart recommendations, Mood scanner, Music journal social sharing, and secure user authentication. The app enables users to create and manage playlists, explore various genres, and enjoy customized music suggestions

based on their listening habits. It also includes an admin panel to manage users, songs, and reports efficiently.

USER FEEDBACK:

- Name: Amit Sharma (Student)
- Objectives: Listen to music either while studying or traveling.
- Main Points: I love the group listening feature
- Quote: “I just love the it; it makes music listening on the go so effortless.”

- Name: Rohan Gupta (Working Professional)
- Goals: Listen to music while working without interruptions.
- Main Points: Advertisements and slow interfaces in other streaming apps.
- Quote: “The app is smooth and user-friendly. I can focus on work while enjoying music.”

- Name: Karan Joshi (Casual User)
- Goals: Play favorite songs quickly and make playlists.
- Main Points: I love the mood based song feature
- Quote: “Finding songs and creating playlists here is easy and convenient.

- Name: Ananya Singh (Tech Enthusiast)
- Goals: Investigate modern design in applications and easy navigation..
- Quote: “The interface is modern and appealing. The Figma design really enhances the experience.”
- Main points: I love the week journel feature

- Name: Priya Verma, Music Lover
- Goals: Search for new music and enjoy recommendations.
- Main Points: Repetitive suggestions, easy to finding new artists.
- Quote: “The personalized recommendations are spot on! I've discovered

USER STORIES:

1. NEW USER

I also would like to select, during the signup, my favorite music genres so that my feed is personalized since the very start.

I would like easy onboarding tips so that I can get acquainted with using the app immediately without going into the nitty-gritty details.

2. AS A MUSIC LOVER

I would like to browse music based on mood and activity categories so that I can quickly locate just the right soundtrack for whatever is happening.

I want curated playlists, expert recommendations, and to be able to discover great music without much effort.

3. AS A SOCIAL LISTENER

I'd like to see what my friends are listening to so that I can find new music through people I trust.

I want to share my favorite tracks and playlists in order to connect with and engage my community.

4. AS A PLAYLIST CREATOR

I'd like to organize my music into visual collections for easily managing my library.

I want to collaborate with friends on playlists so that we can create the perfect vibe.

5. AS A PODCASTS LOVER

I would like to explore and subscribe to podcasts within the app, so I could enjoy both music and spoken content in one place.

I'd like personalized suggestions for podcasts, as per my listening trends, so I never miss

any interesting episodes.

6. AS A FREQUENT TRAVELER

I want location-based playlists to discover music that fits the culture or vibe of wherever I am.

FEATURES ENHANCED:

AI COMMUNICATION

An intelligent virtual assistant that interacts with users through chat or voice commands.

MOOD DETECTOR

Uses AI and sensor data Automatically adjust playlist

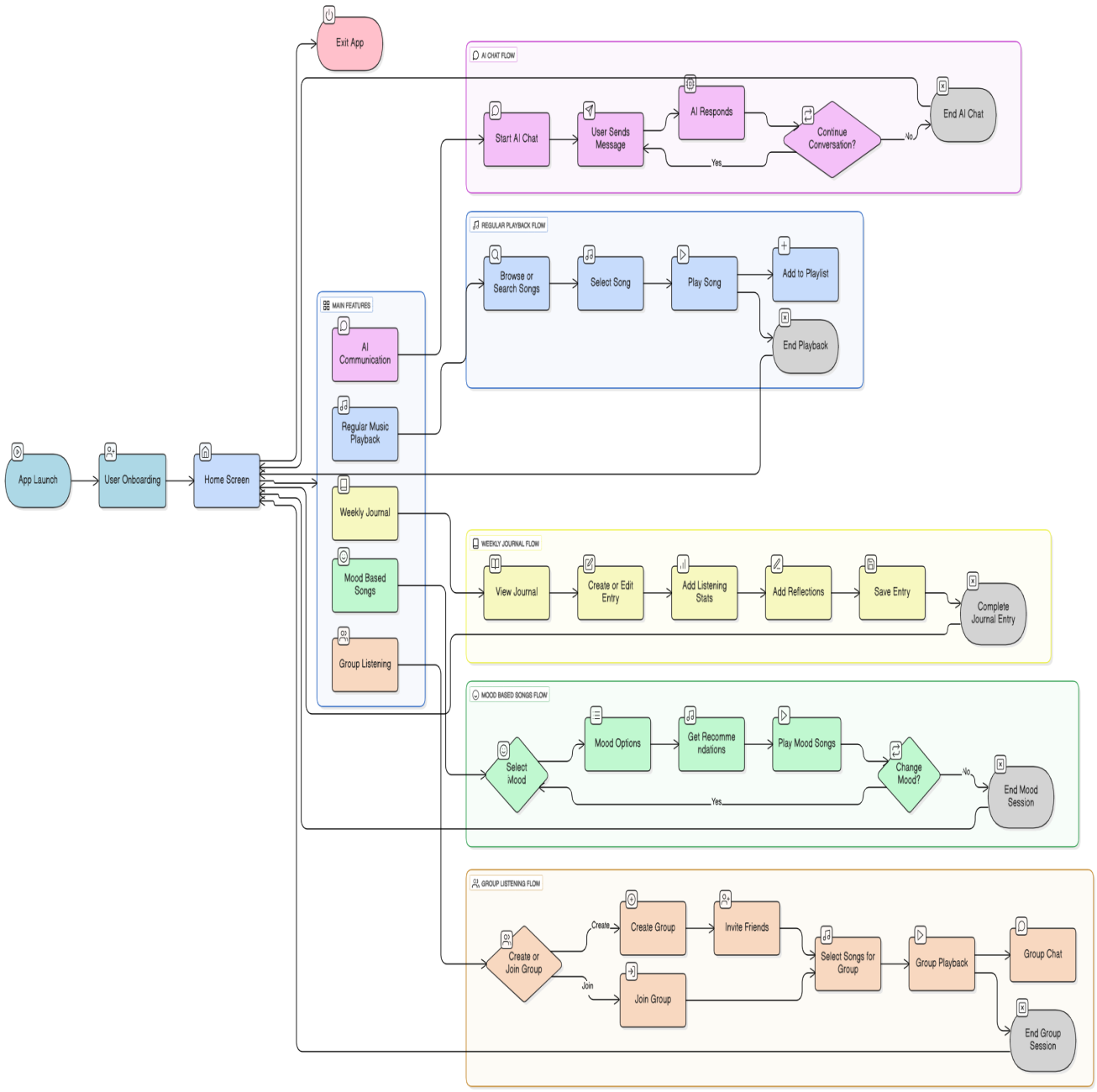
GROUP LISTENING

Allows multiple users to listen to the same song or playlist simultaneously in real-time, regardless of location.

WEEKLY JOURNEL REPORT

Provides users with a personalized summary of their listening habits every week.

FLOW CHART:


Exit App
AI CHAT FLOW
Start AI Chat
User Sends Message
AI Responds
Continue Conversation?
No
Yes
End AI Chat
REGULAR PLAYBACK FLOW
Browse or Search Songs
Select Song
Play Song
Add to Playlist
End Playback
MAIN FEATURES
AI Communication
Regular Music Playback
Weekly Journal
Mood Based Songs
Group Listening
App Launch
User Onboarding
Home Screen
WEEKLY JOURNAL FLOW
View Journal
Create or Edit Entry
Add Listening Stats
Add Reflections
Save Entry
Complete Journal Entry
MOOD BASED SONGS FLOW
Select Mood
Mood Options
Get Recommendations
Play Mood Songs
Change Mood?
No
Yes
End Mood Session
GROUP LISTENING FLOW
Create or Join Group
Create
Join
Create Group
Join Group
Invite Friends
Select Songs for Group
Group Playback
Group Chat
End Group Session

WIRE FRAMES:

VIBRA

welcome

Email or Username

Continue

or

Continue with phone number

Continue with google

Continue with facebook

Continue with apple

Don't have an account?

Sigh up

LOGIN

Enter your username

Enter your password

LOGIN

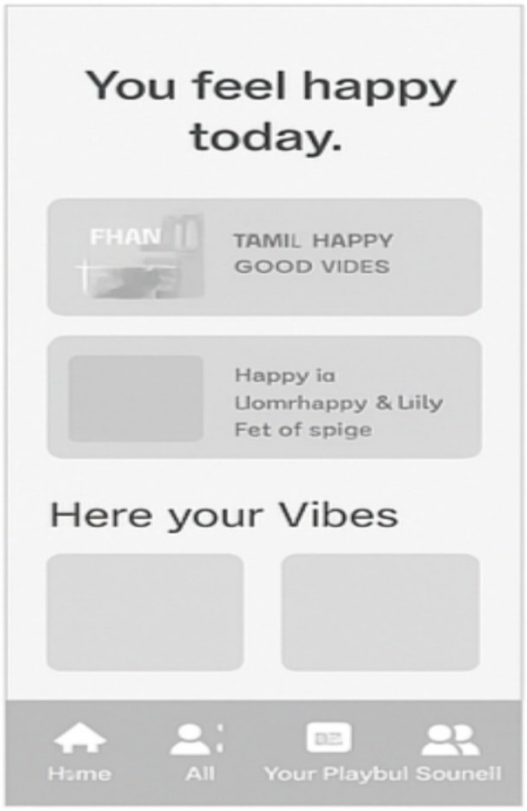
Remember me Forget password?

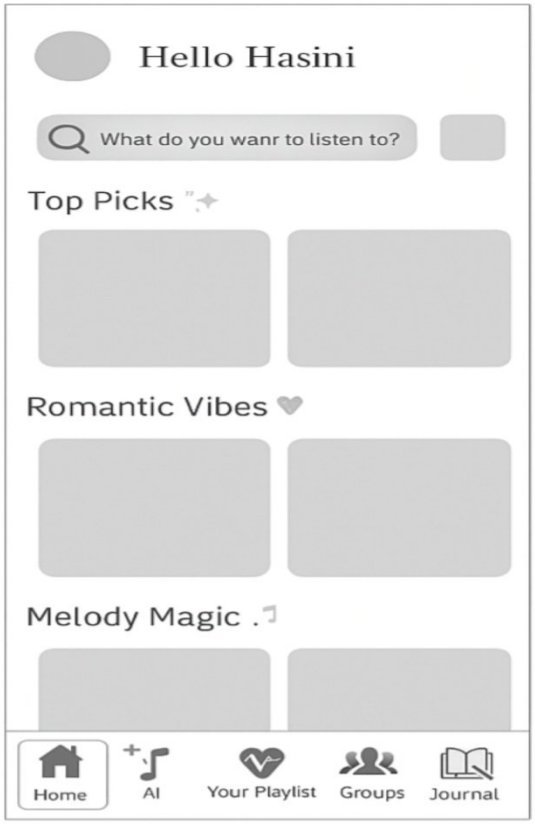
Don't have an account?

Sign up

SUCCESSFULLY SIGNED UP

Mood-to-Music Mapping
Choose your mood,
Feel your tune,
"Every emoij has a mythm."
"Your vibe decides your playlist.


You feel happy today.
TAMIL HAPPY
GOOD VIDES
Happy ia
Uomrhappy & Lily
Fet of spige
Here your Vibes
Home
All
Your Playbul Sounell


Hello Hasini
What do you wanr to listen to?
Top Picks
Romantic Vibes
Melody Magic
Home
AI
Your Playlist
Groups
Journal

AI Interaction
-your smart music buddy
AI. "Hey Hasini! I've synced with your vibe today."
Would you like me to play something peaceful or lift your energy?
Hey AI. I just want somthing peaceful to relax right now.
Home
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Hey AI. I just want something peaseful to relax right now
Atr Gatifl'
based on your mood and past favorites, I think you'll love these
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Groups
Journat

Your Playlist
Artists Zone
Home
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Your Playlist
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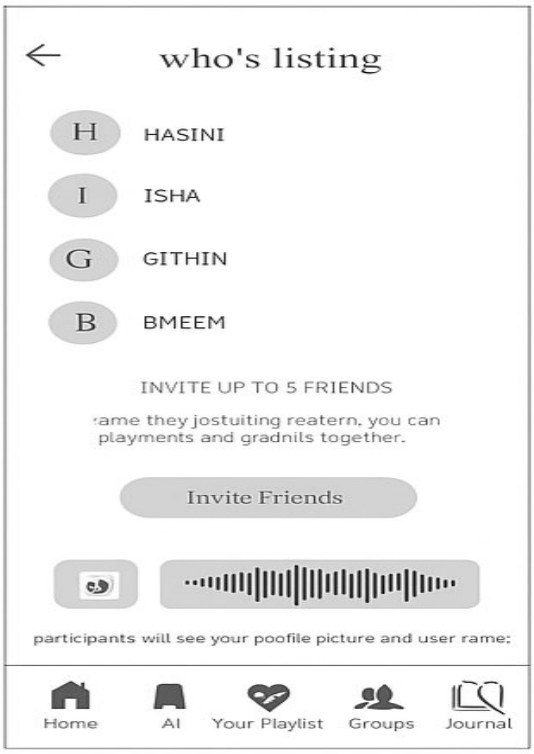
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Invite Friends
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Home
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Your Playlist
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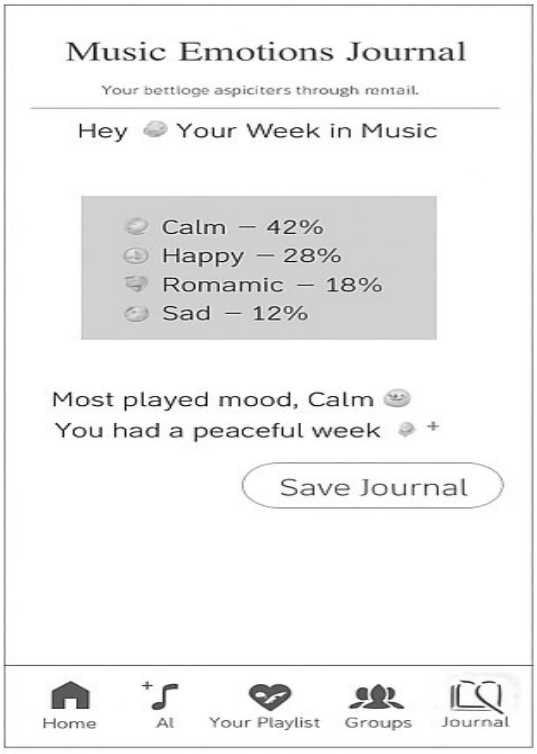

Music Emotions Journal
Your bettloge aspiciters through rentail.
Hey Your Week in Music
Calm — 42%
Happy — 28%
Romamic — 18%
Sad — 12%
Most played mood, Calm
You had a peaceful week
Save Journal
Home
AI
Your Playlist
Groups
Journal

PROJECT RESULT:

VIBRA

welcome

Email or Username

Continue

or

Continue with phone number

Continue with google

Continue with facebook

Continue with apple

Don’t have an account?

Sign up

LOGIN

Enter your username

Enter your password

LOGIN

Remember me Forget password?

Don’t have an account?

Sign up

SUCCESSFULLY SIGNED UP

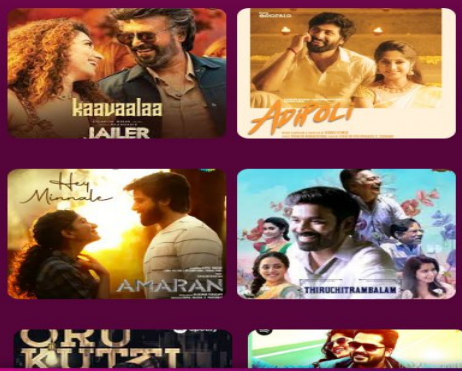
Mood-to-Music Mapping

Choose your vibe to find your tune

"Select your mood. Feel your tune."
"Every emoji has a rhythm."
"Your vibe decides your playlist."

"You feel happy today."

Here your Vibes

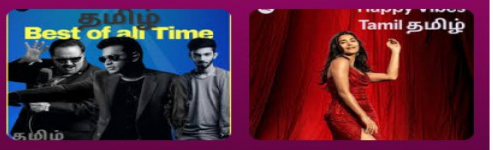


Home | Ai | Your Plalist | Groups | Journal

Hello Hasini

What do you want to listen to?

Top Picks ✨



Romantic Vibes 💞

Melody Magic 🎶

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AI Interaction

-your smart music buddy

AI: "Hey Hasini! I've synced with your vibe today 💗
Would you like me to play something peaceful or lift your energy?"

Hey AI, I just want something peaceful to relax right now |

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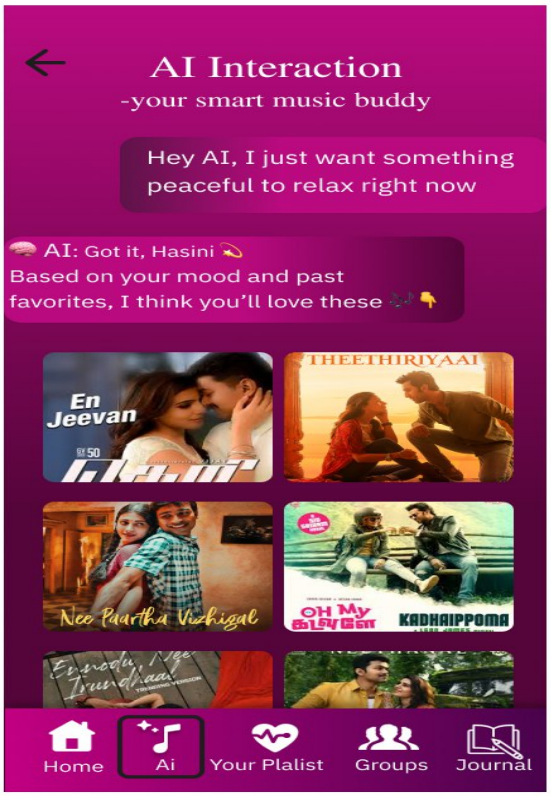
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Hey AI, I just want something peaceful to relax right now
AI: Got it, Hasini
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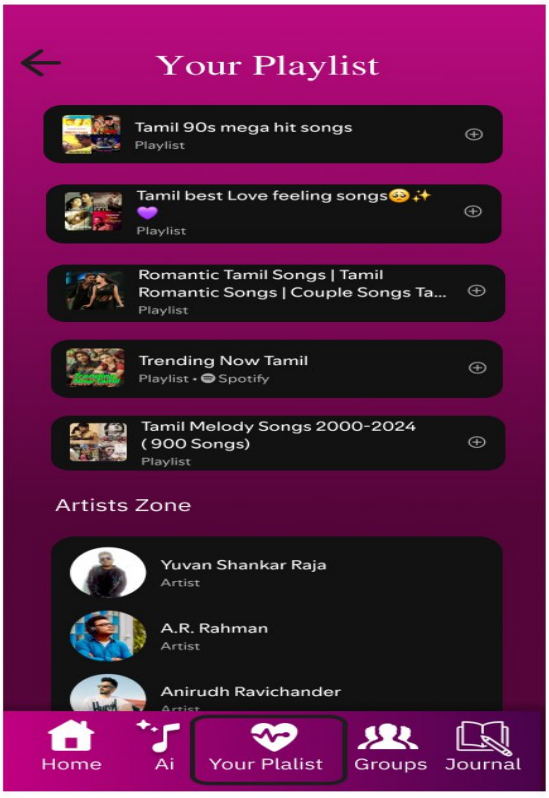
Your Playlist
Tamil 90s mega hit songs
Playlist
Tamil best Love feeling songs
Playlist
Romantic Tamil Songs | Tamil Romantic Songs | Couple Songs Ta...
Playlist
Trending Now Tamil
Playlist • Spotify
Tamil Melody Songs 2000-2024 (900 Songs)
Playlist
Artists Zone
Yuvan Shankar Raja
Artist
A.R. Rahman
Artist
Anirudh Ravichander
Artist
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Your Plalist
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who's listing
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INVITE UP TO 5 FRIENDS
once they join group seesion, you can play music and podcasts together.
Invite Friends
participants will see your profils picture and user name.
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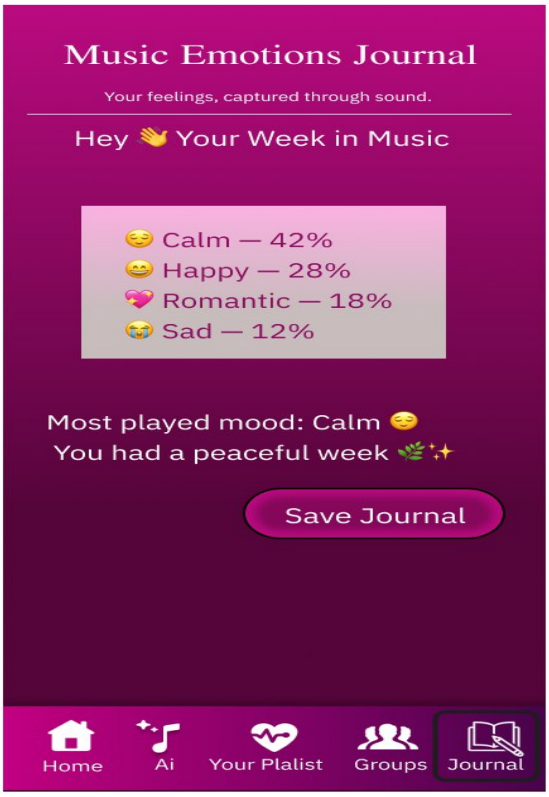
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CONCLUSION:

The VIBRA music streaming app successfully integrates emotion-driven technology with personalized user experiences. By mapping moods to music, it allows users to connect emotionally with their playlists, enhancing engagement and satisfaction. The inclusion of AI-assisted recommendations, group listening, and a music emotions journal adds depth to the user experience—making VIBRA not just a music player but a digital mood companion.

Through an intuitive interface and interactive flow, users can easily navigate from on boarding to discovering, sharing, and journaling their musical journey. Overall, VIBRA demonstrates how AI and emotional intelligence can transform music streaming into a more personal, social, and reflective experience.