

Moody

5th March 2025

OVERVIEW

A web app that analyzes a user's mood (based on text input, emoji selection, or even a selfie analysis) and generates a personalized music playlist using AI.

GOALS

1. Develop a very simple and engaging web app that uses AI and SSR to generate personalized music playlists based on a user's mood.
2. Integrate sentiment analysis (from text input) and emotion detection (from optional image uploads).
3. Provide users with seamless access to music recommendations via APIs like Spotify or YouTube.
4. Ensure a user-friendly interface with quick and accurate mood-based playlist suggestions.

SPECIFICATIONS

Frontend/Backend: Built with Go and WASM using SSR

Database: PostgreSQL on Neon

AI Integration:

- Sentiment analysis using an NLP model (OpenAI API, Google NLP, or VADER for simplicity).
- Facial emotion recognition (optional) using FaceAPI or another pre-trained model.

Music API Integration:

- Spotify API for fetching mood-based playlists.
- Alternative: YouTube API for video-based playlists.

User Features:

- Text-based mood input.
- Emoji-based mood selection.
- (Optional) Image upload for AI-powered mood detection.
- Playlist generation and sharing options.

PROJECT MILESTONES

Phase 1: Research & Planning

- Define key AI models and APIs to be used.
- Design UI/UX wireframes for the app interface.
- Set up a simple backend to handle API calls.

Phase 2: Core Development

- Implement sentiment analysis for text-based mood detection.
- Integrate Spotify/YouTube API for fetching playlists.
- Develop the frontend interface for user input and playlist display.

Phase 3: AI Enhancements

- Add emoji-based mood detection for a more interactive experience.
- (Optional) Integrate FaceAPI for facial emotion recognition.

Phase 4: Testing & Deployment

- Test AI mood detection accuracy with sample inputs.
- Ensure smooth API integration and playlist fetching.
- Deploy the web app on a hosting service like Vercel, Netlify, or Firebase.