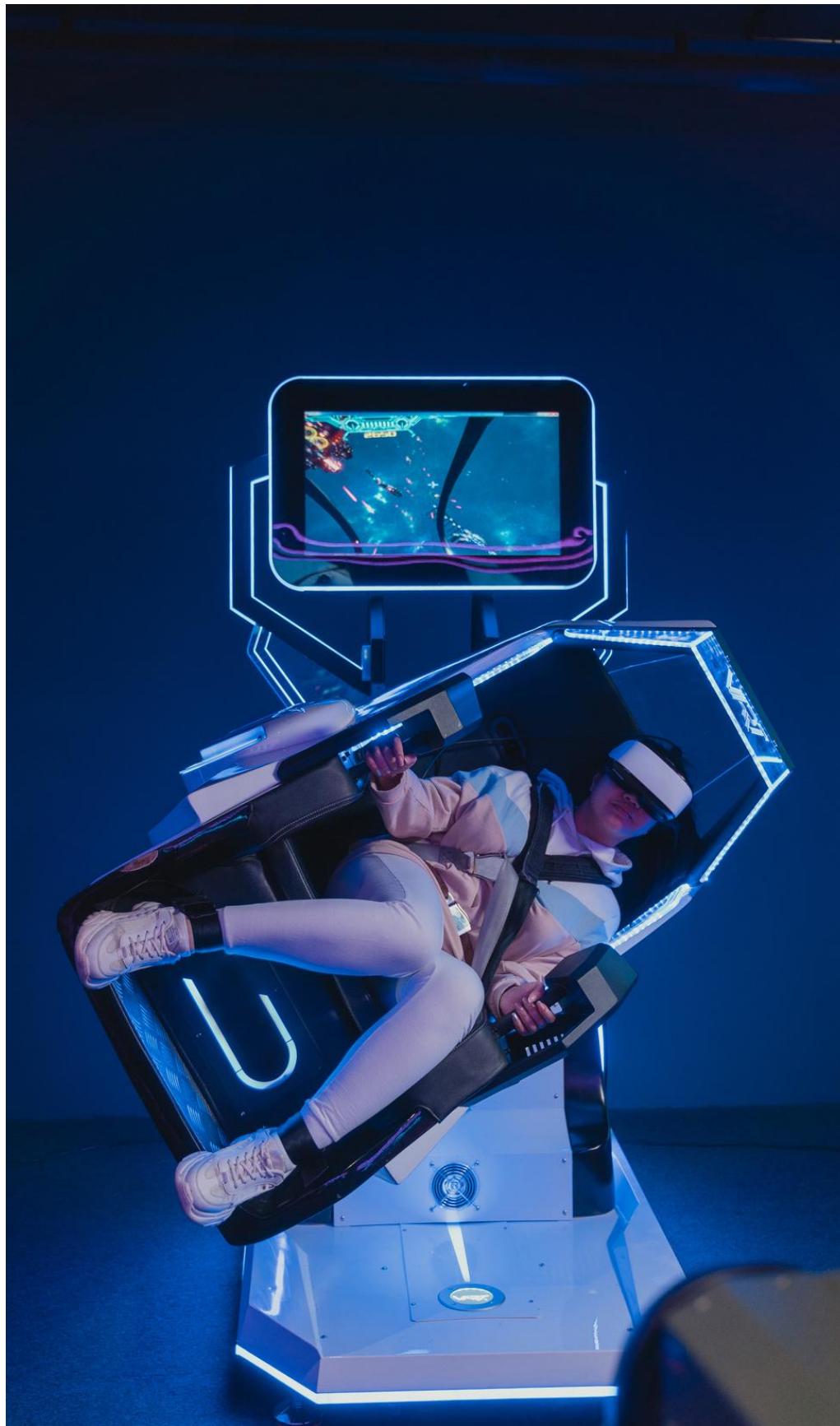


*AIONIC - DEVELOPMENT OF AN  
AI-BASED MUSIC COMPOSITION  
SYSTEM*



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# Project Overview

- AIONIC is an AI-based system for automatic music composition
- Generates melodies according to user mood and inputs
- Uses Machine Learning & Deep Learning for emotion and music analysis
- Integrates Spotify API for mood-based playlist suggestions
- Delivers a personalized, intelligent, and user-friendly music experience



# Problem Statement



*“There is no AI system that can detect a user’s mood and sentiment from input, generate personalized music, and recommend Spotify songs automatically.”*



# Proposed Solution

01

Detects user mood and sentiment from text or image inputs.

02

Generates personalized AI-based music matching the detected mood.

03

Recommends Spotify playlists aligned with user emotions.

04

Provides an interactive platform to play AI-generated and Spotify music seamlessly.



# PROJECT OBJECTIVE



- Provide personalized music experiences based on real-time mood.
- Use AI for sentiment analysis and emotion detection.
- Automatically generate music and suggest Spotify playlists.
- Enhance user engagement and emotional well-being through music.



# Key Features

01

AI Mood & Sentiment Detection: Automatically identifies user emotions from text or image inputs.

02

Personalized Music Generation: Generates AI-composed music tailored to the detected mood.

03

Spotify Playlist Integration: Recommends songs that match the user's emotional state.

04

Interactive Playback: Seamlessly plays AI-generated tracks and Spotify playlists in one platform.

05

User History & Tracking: Records past moods, prompts, and music for easy access and reference.





# Future Enhancements

01

## AI Mood & Sentiment Detection

Instantly identifies emotions from text or image input.

02

## Personalized AI Music Generation

Composes music that matches the user's detected mood.

03

## Spotify Playlist Recommendations

Suggests songs that align with emotional context.

04

## User-Friendly Interactive Playback

Allows seamless playback of AI music and Spotify tracks.



# Technical Stack



## Frontend & Backend

HTML, CSS, JavaScript, Django,  
Python



## AI Models

Sentiment Analysis, Emotion  
Detection, Music Generation

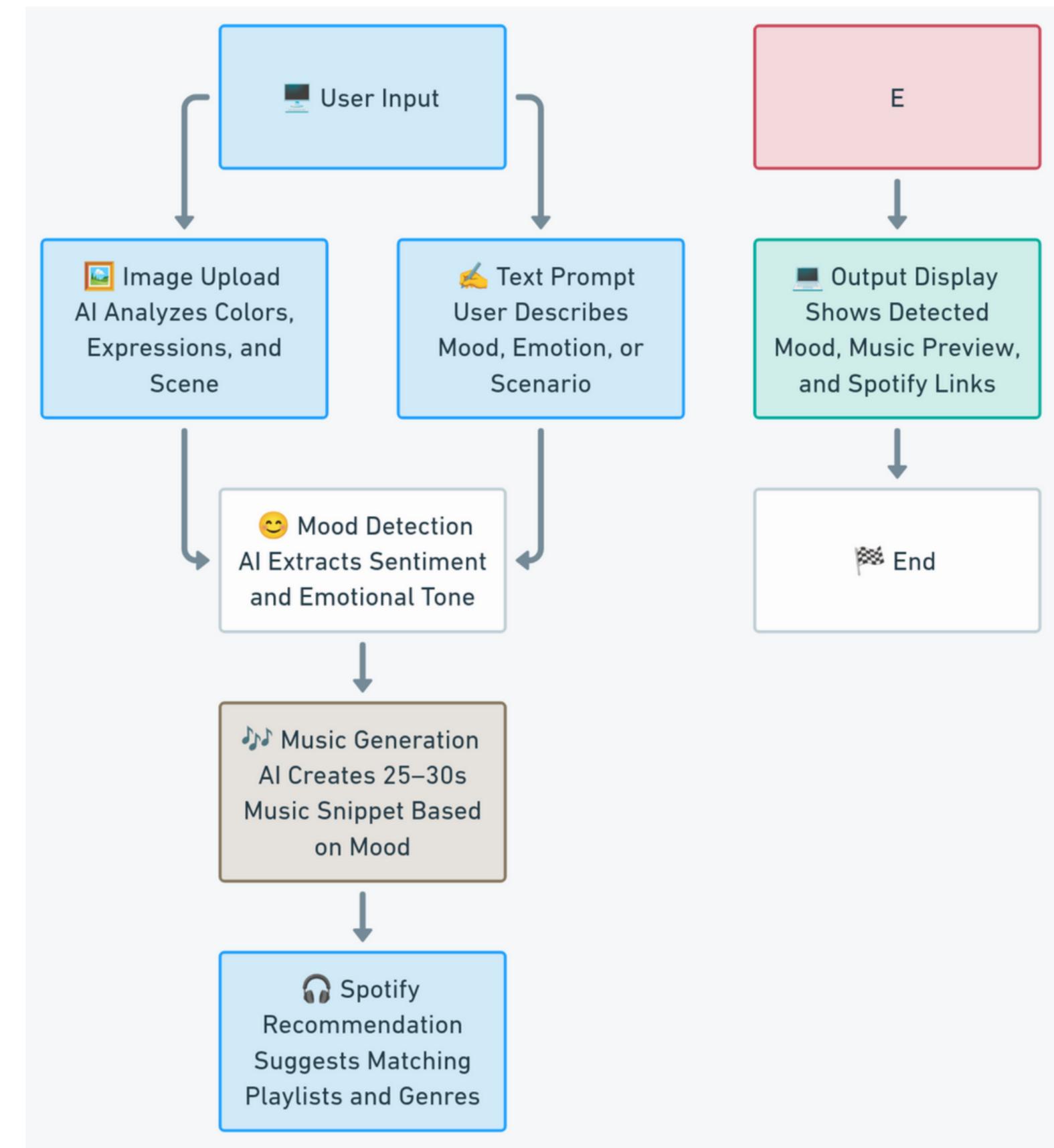


## API & Database

API, SQLite/PostgreSQL



# Workflow / System Flow





# Conclusion

- AIONIC provides a unique AI-driven music experience personalized to emotions.
- Integrates sentiment analysis, AI music generation, and Spotify API in one platform.
- Enhances creativity, engagement, and emotional well-being.
- Demonstrates real-world application of AI in music, wellness, and entertainment.



# Thank You...!

