



**melodic music  
player  
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# Problem Statement

1. 🎵 **Manual Search:** Users waste time searching for songs that match their mood.
2. 😞 **No Personalization:** Apps don't recommend songs based on emotions.
3. 🔄 **Inconvenient:** No automatic mood-based filtering or intuitive interface.

# **PROBLEM SOLUTION**

1. **Mood-Based Playlists** – Pick your mood (Happy/Sad/Energetic), get matching songs instantly.
2. **Smart UI** – App color changes to match your mood (e.g., pink for happy).
3. **Easy Controls** – Play/pause, save favorites, and search songs fast.



# Main Features

## **Basic Music Player:**

- **Play, Pause, Stop, Next, Previous, Volume Control.**
- **Offline music support (play songs from local storage).**

## **Mood-Based Filtering**

- **Manual mood selection (Happy, Sad, Energetic) → Songs filtered accordingly.**

## **Custom Playlists**

- **Create, save, and load personalized playlists.**

## **Favorite Songs**

- **Mark/unmark songs as favorites.**

## **Mood-Based UI**

**App theme/color changes dynamically based on selected mood.**

### **Smart Search**

- **Search songs by title, artist, or genre.**

### **Recently Played History**

- **Track and display last-played songs.**

### **Online Music Streaming**

- **Fetch songs from YouTube/Spotify (API integration).**

# Tools and Technologies used

```
using system;  
using system.collections.generic;  
using system.drawing  
using system.io  
using system.windows.forms  
using naudio.wave  
using system.net  
using spotifyapi.web  
using spotifyapi.web.auth  
usin system.threading.tasks  
using system.linq
```

# Project Timeline / Iterations



**Basic music player, offline, playlist,  
favorites**



**Mood filtering, UI  
themes, smart search**



**Online streaming,**

# User Stories

## **Iteration 1:**

**As a user, I want to  
play/pause/stop songs.**

**As a user, I want to create  
and save my playlists.**

**As a user, I want to mark  
songs as favorites.**

## **Iteration 2:**

**As a user, I want to filter songs  
based on my mood.**

**As a user, I want my app's UI to  
change according to my mood.**

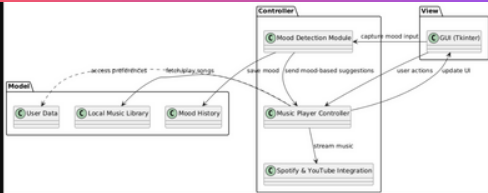
**As a user, I want to search for  
songs using title, or artist.**

## **Iteration 3:**

**As a user, I want to stream music from online platforms like  
Spotify.**



# Architecture



# Non Functional Requirements

- Usability

- The application should provide an intuitive and user-friendly graphical interface (GUI)

- Performance

- The app should be able to load and play local music and stream from Spotify.

- Reliability

- The mood detection and recommendation system must provide consistent and accurate suggestions based on previous mood history and not crash during usage or mood scanning.

- Security

- The login and account creation system should securely handle user credentials, ensuring data protection during authentication with Spotify APIs and while storing user mood history.

# WORK DIVISION

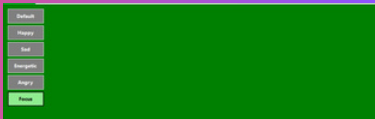


Frontend,testing trello  
working and report by hira  
khalid

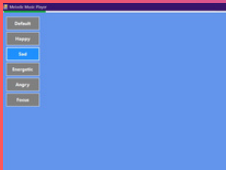


backend and ui by maryam

# user interface







We need to make sure that you're a human

✓ I'm not a robot



Continue



Log in to Spotify



Continue with Google



Continue with Facebook



Continue with Apple

Email or username

Email or username

Continue