

The Melody Cafe

“for people who love exploring music”

Intro & Goal

Our goal is to make The Melody Cafe, a place where people can enjoy listening to music, stories and podcasts. We are building a platform where users can easily find their favourite songs and stream them on any device, anywhere. Some brainstorming ideas that we have included are that our users will be able to follow their favourite artist and will know in advance of their new song launches as well. Our users will be able to share playlists with their friends and can listen and vibe together. We want to give an experience of a live cafe in their home.

Who's it for?

1. **Music-Loving People** - those who enjoy exploring and streaming music.
2. **Independent Artists** - people who want to publish their amazing songs.
3. **The Groupers** - People who love listening to music together.

Why build it?

1. It's something we personally enjoy using
2. The music will be for the people, to the people, by the people
3. Independent artists can get recognition from the music-loving community.
4. Monetization opportunities in advertising or by subscriptions and contracts.

Glossary

1. **Home Page** - Front store of our web app that users will see.
2. **Search / Filter** - Users can search their query or can filter from the categories present.
3. **Music Player** - Users can control and configure their music options on this page.
4. **Authentication Page** - Here users can choose to log in or sign up to the app.
5. **My Profile Page** - Here users can see their profile, the plans chosen and can edit them.
6. **My Music** - Here users can view their own created songs or saved playlists and albums.
7. **Album Details Page** - Here users can view the details of the selected album
8. **Playlist Details Page** - Here users can view the details of the selected playlist
9. **Subscription Page** - Here users can view the subscription plans available to them.
10. **Checkout Page** - Here users can fill in their details to buy a subscription.

Personas

1. **Guest Users** - people who have not registered with us but can access our music content.
2. **Registered Non-Premium Users** - people that are using the freemium version of our app with advertisements and limited options of songs.
3. **Premium Users** - people who have bought our subscription plans will get all the premium features
 - a. **Independent Artists** - people who can upload their songs.

Functional MVP Requirements

V1 -

- Users can Login / Signup on the platform using a phone number or Oauth.
- Creating a home page with beautiful carousels, where users can explore songs, albums, artists and other categories
- Users can search and filter their favourite songs and categories.
- Users can explore the Album or Playlists generated by the app.
- Users can favourite albums and playlists.
- Users can add songs to a playlist.

- Users can add a song/playlist/album to the player queue.
- Users can save their queue as a playlist.
- Users can skip the songs. (Only 2 skips to the non-premium user)
- Users can upgrade themselves to premium members.
- Users can make payments with a secure payment system from the checkout page.
- Users can control the music player with different options available.
- Restrict the functionalities that users can use based on different personas.
- We will use 3rd party API for getting the songs.
- We will store recent searches of the user.
- All pages will be responsive.
- We will add breadcrumbs for ease of navigation.

V2 -

- Users can share their songs and albums on social media apps+.
- Users can create music rooms and listen to music with their friends.
- Users can upload their own songs.
- Users can search the songs by using the voice search functionality.
- We can use our own infrastructure to save the songs.

Non-Functional Requirement

- Create a good user experience for users
- Faster loading of songs and optimizing images
- Users can stream songs even in less speed networks

Tech Stacks & tools

Frontend Stacks: React JS

Backend Stacks: Node JS, Express Server

CI/CD and Hosting: Amazon Web Services

Database: MySQL

Tools: VS Code, Miro (Visual Design), Docker, Github

Payment Gateway: Razorpay

Analytics and Monitoring: Sentry, Google Analytics

Product Demo

- <https://master.d2kw5hl91dwpos.amplifyapp.com/>

Codebase URL

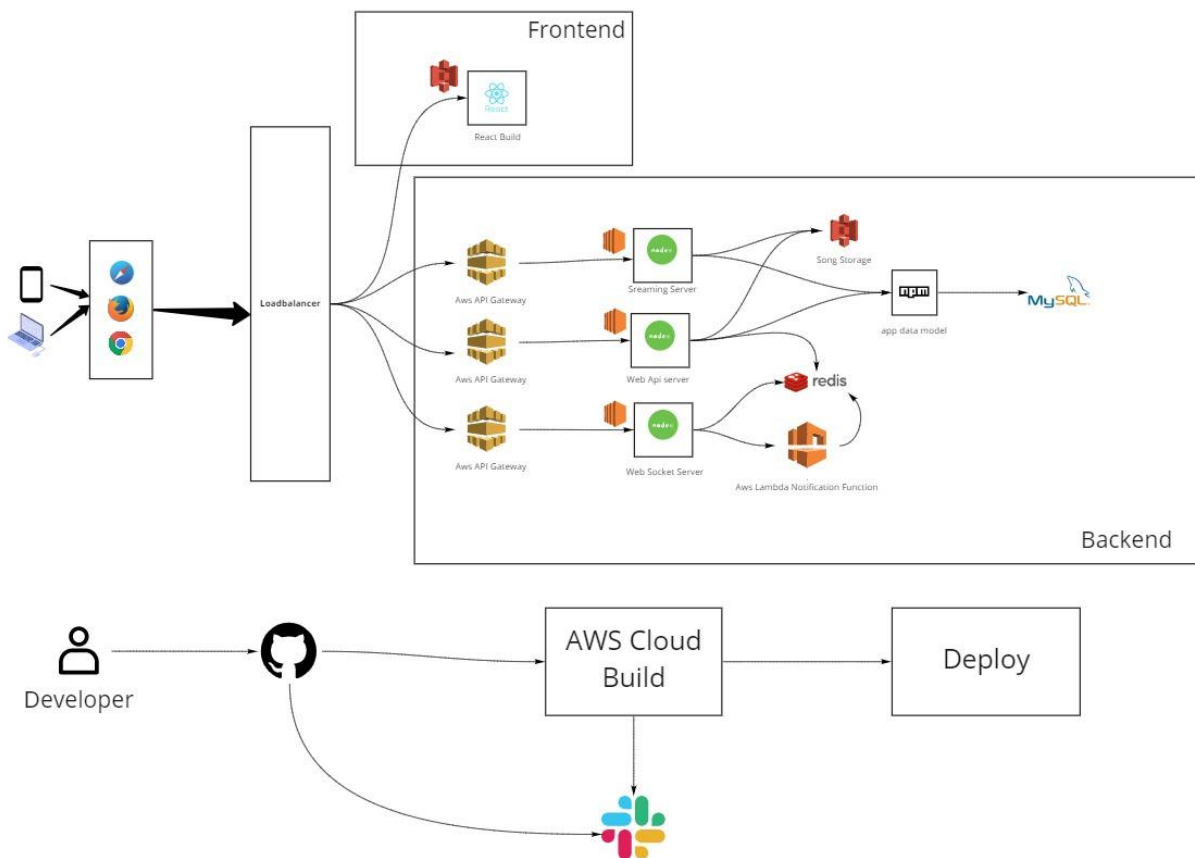
- <https://github.com/pesto-students/f1-melody-cafe-frontend-alpha-f1>
- <https://github.com/pesto-students/f1-melody-cafe-backend-alpha-f1>

Visual Designs

- https://miro.com/app/board/o9J_lweBjM0=

High-Level Design

HLD Diagram



Timeline

Week	Features
1	<ul style="list-style-type: none">• Set up hosting and CI/CD• Build Basic Components• Setup Backend• Create Home Page and related APIs• Create Authentication Page and API's
2	<ul style="list-style-type: none">• Search and Filter Functionality• Create Music Player and related API and functionality like adding to queue and other configuration options• Create Album and Playlist Page and related APIs
3	<ul style="list-style-type: none">• Create My Music Page• Create Subscription and checkout functionality• Create V2 features
4	<ul style="list-style-type: none">• Test Code Coverage• Add Analytics and monitoring

Competitors & Product Inspiration

1. [Gaana](#) - UI/UX
2. [Spotify](#) - Social Media

Priority:

1. Third Party API Integration for Version 1.
2. Authentication Flow.
3. Song List Down.
4. Playlist List Down.
5. Artist Results.

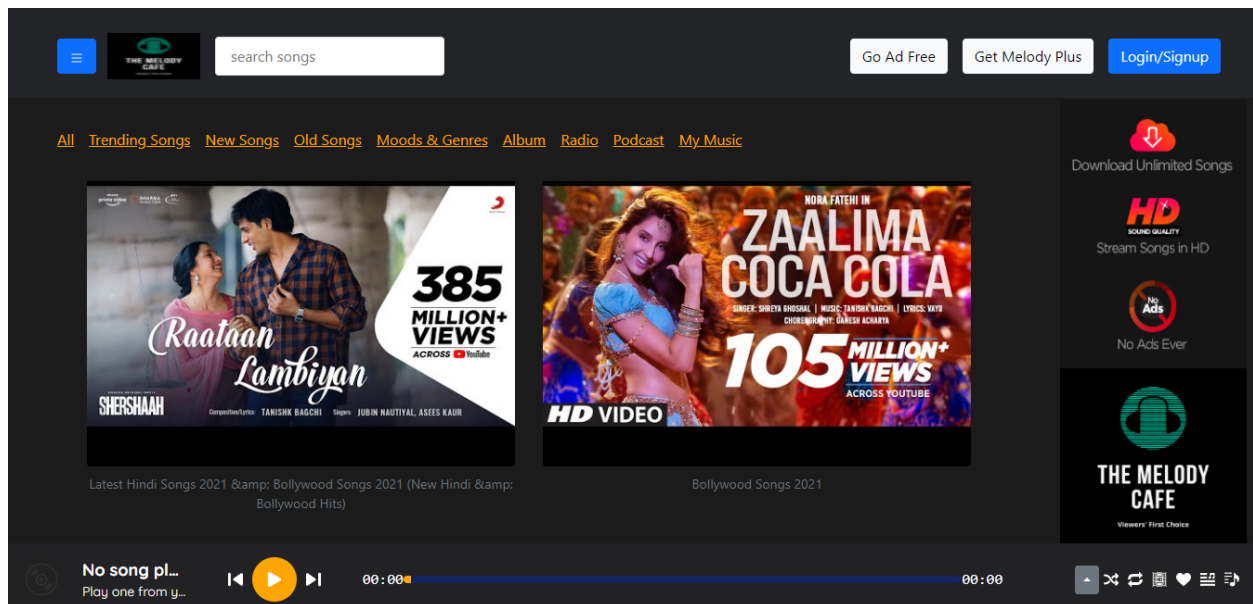
6. Search Song,playlist,artist.
7. Payment Gateway Integration.
8. Create a Custom Playlist For Users.

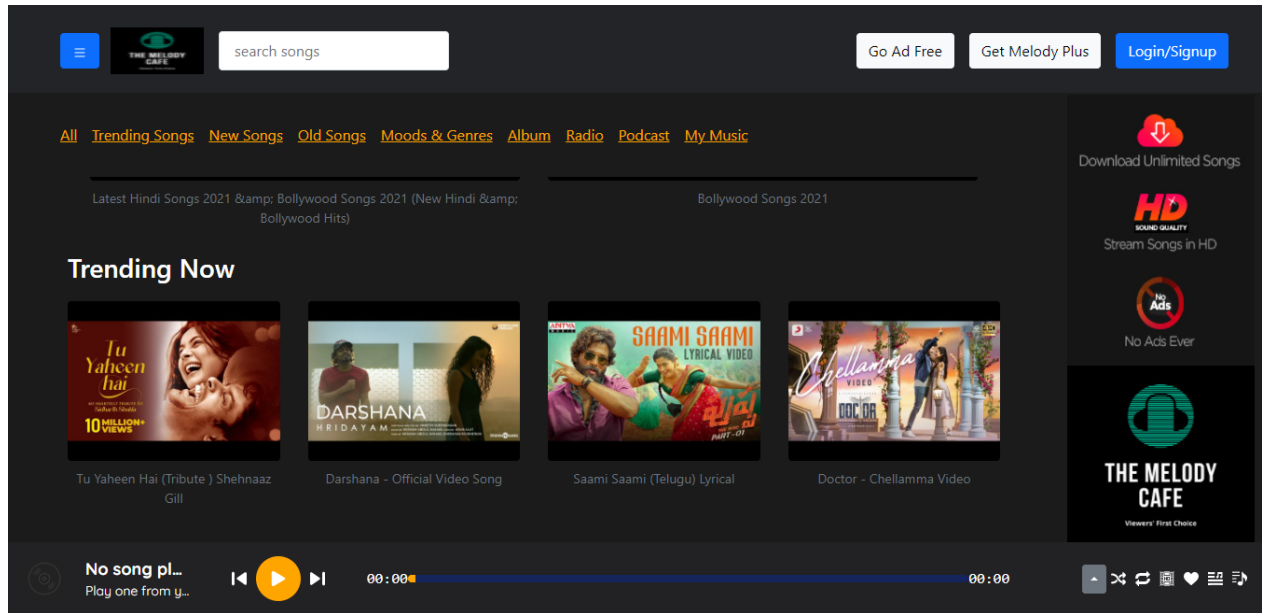
Success Metrics:

1. In one year 100K users use the app.
2. 10K-20k premium user.

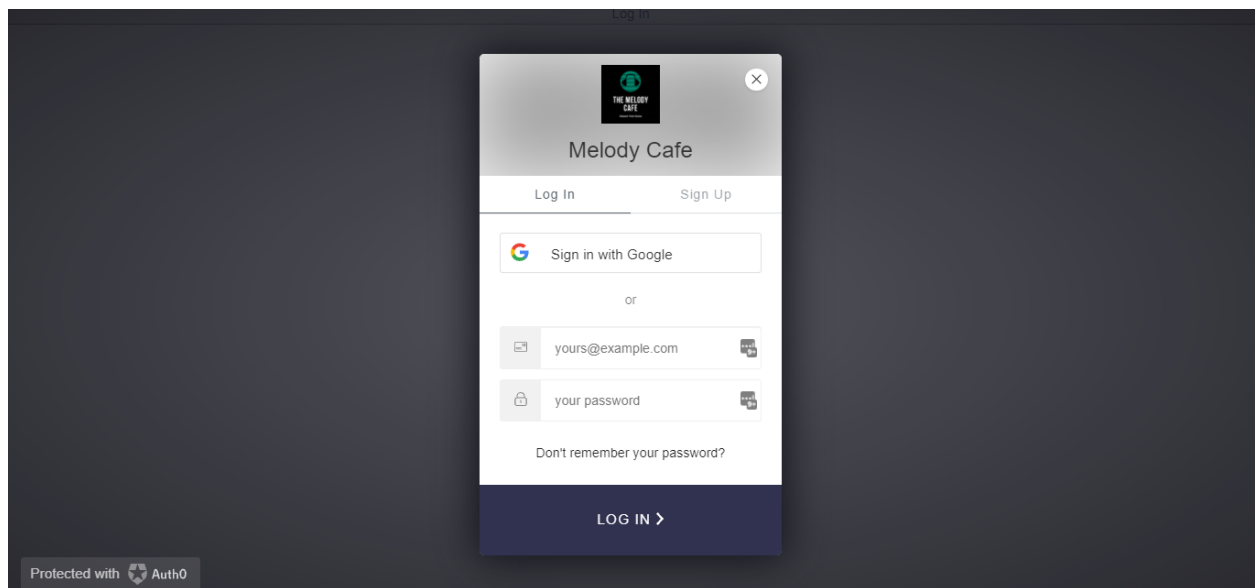
User Journey:

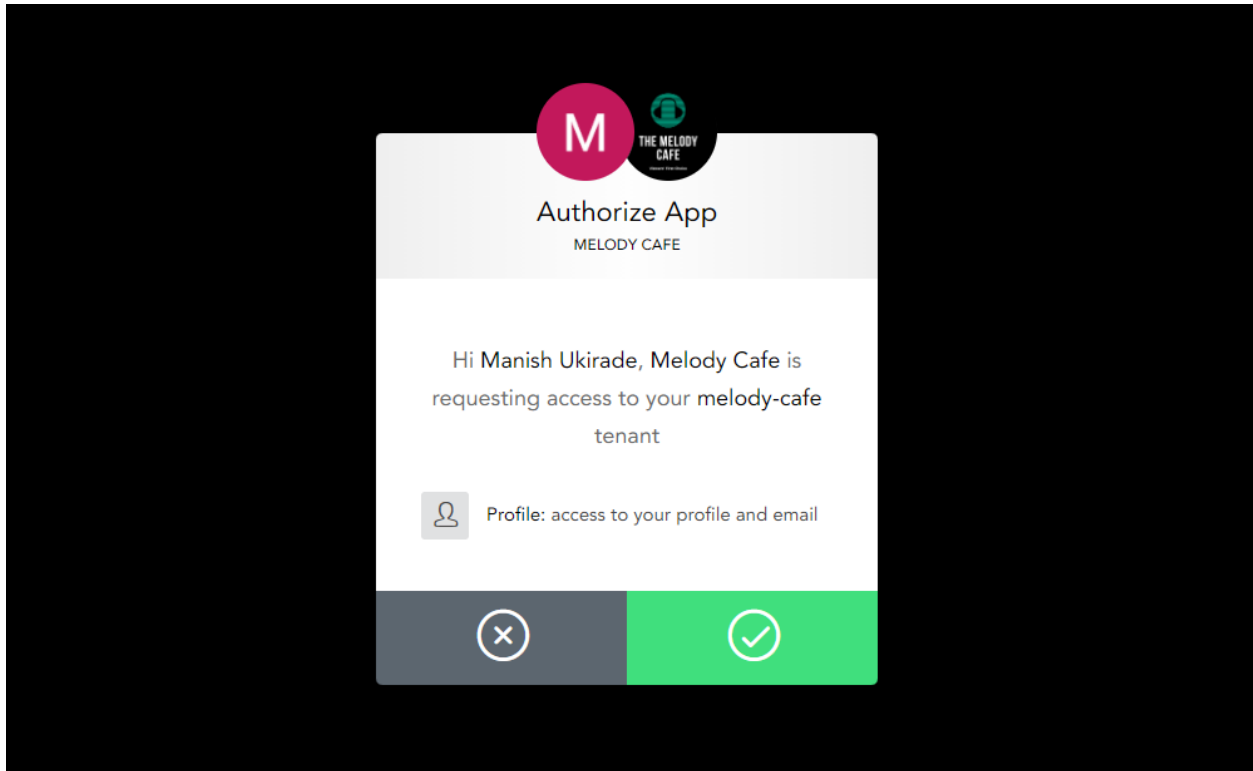
1. Home Page



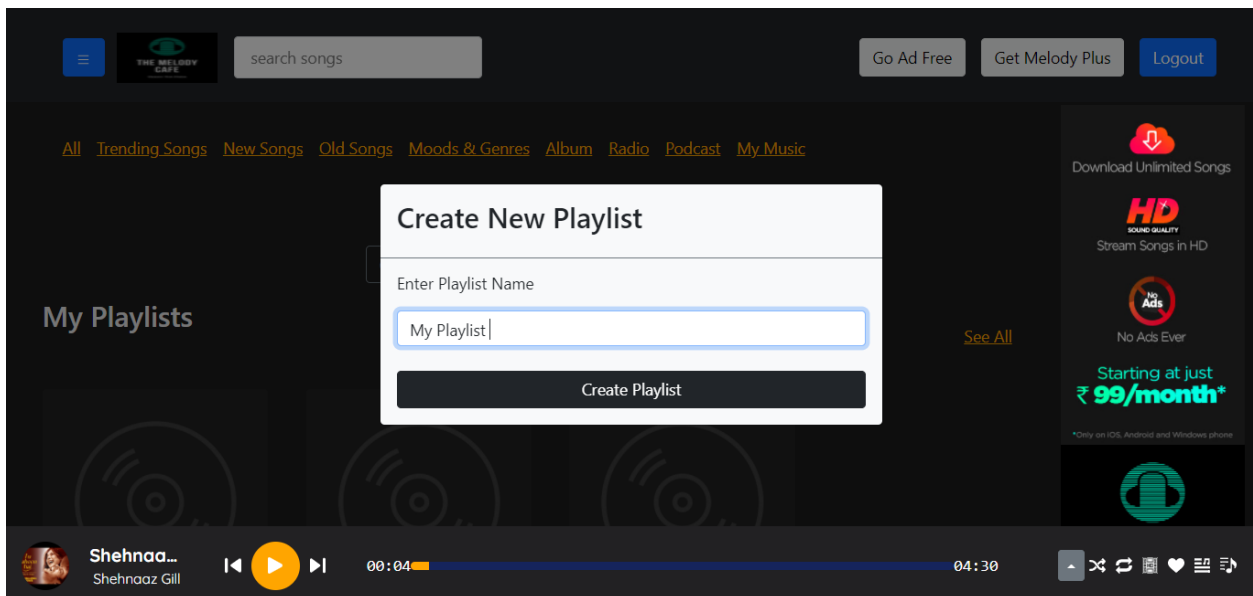


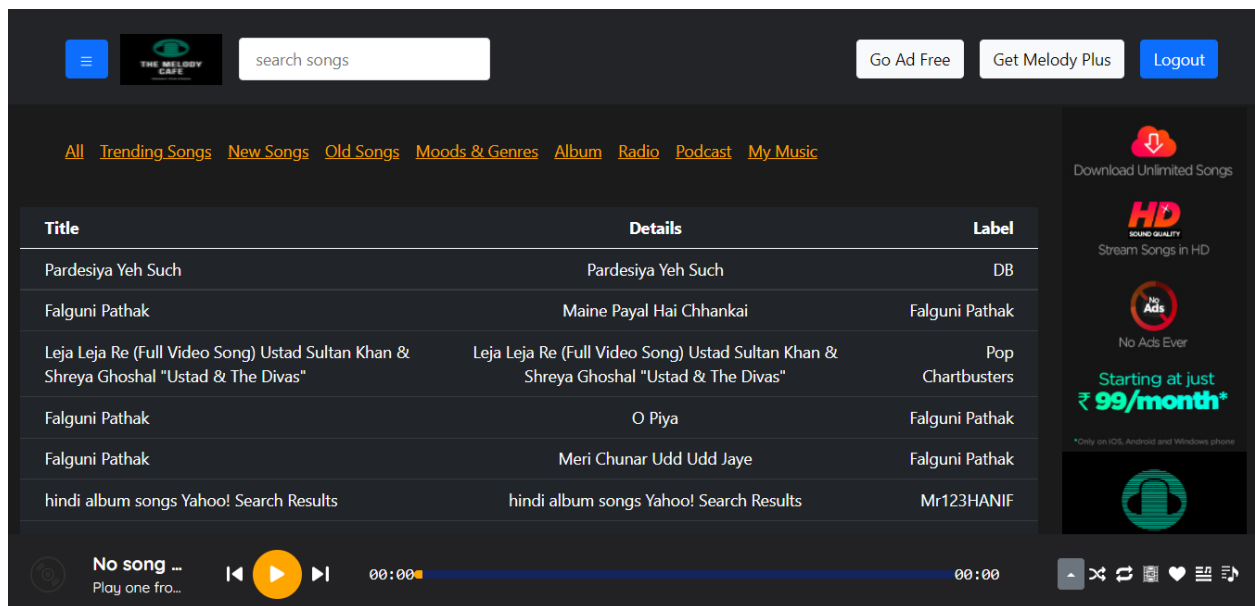
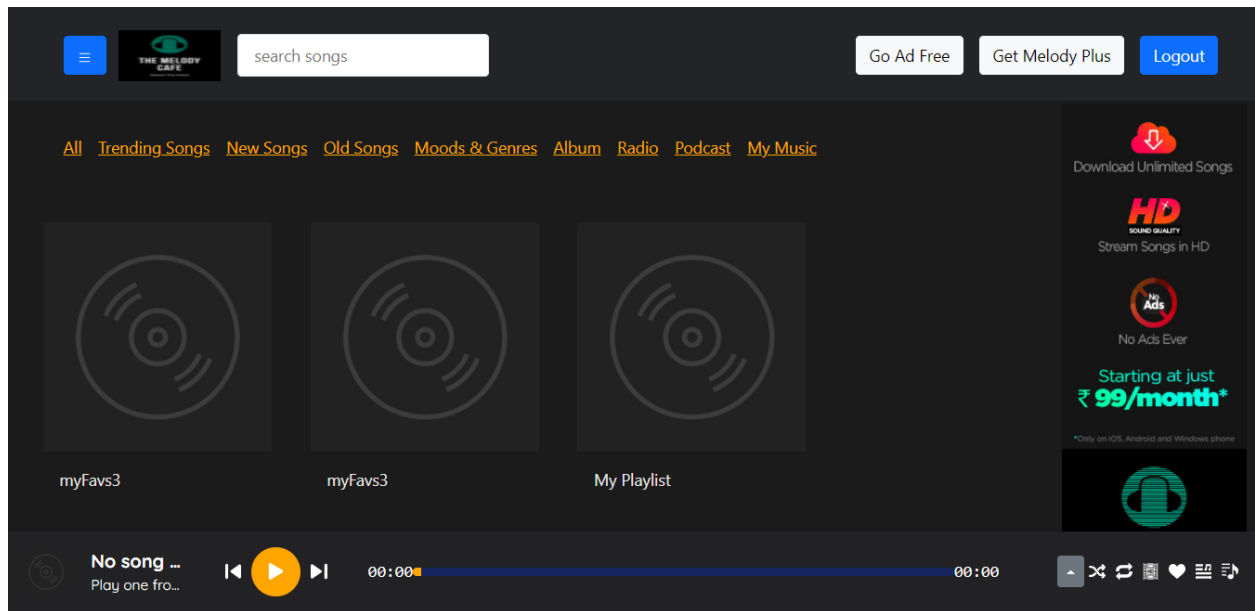
2. Login





3. Playlist Flow





3. Payment Gateway:

