



# Music Copyright Protection

**How technology has impacted our protection and originality of work**

# Our Mentor

**Dr. Himanshu Agrawal**

INTEREST AREA(S):

Cellular & Ad-hoc Networks, Wireless  
Sensor Networks, Mobile Intelligent  
Networks, Cognitive Networks

# Group Members

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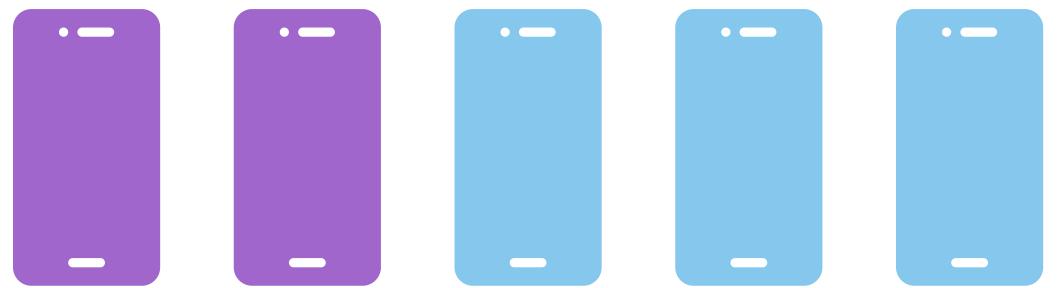
# OVERVIEW

We desire to design a responsive web application based on blockchain for Music copyright protection

To protect the original works by the authors, producers and performers to protect their work from infringement.



# The Problem



## Pre-leaking of albums:

Leaking months before the release date will mean the music unavoidably loses any momentum or hype initially generated by the time it hits the shelves.

## Copyright Infringement

World is facing major scrutiny when it comes to online copyright infringement in the music industry and has been bombarded with lawsuits because of their inability to compensate artists appropriately

## Third party

After the many deductions, only a small amount of money remains for the creators who are the original owners.

# How can we solve the problem?



It is argued that blockchain can introduce long-awaited transparency in matters of copyright ownership chain; substantially mitigate risks of online piracy by enabling control over digital copy and creating a civilized market for “used” digital content. It also allows to combine the simplicity of application of creative commons/open source type of licenses with revenue streams, and thus facilitate fair compensation of authors by means of cryptocurrency payments and Smart contracts.



# Our Approach

## A Responsive Web Application Based on Blockchain for Music Copyright Protection.

Web development will be used in front- end and Blockchain at the backend.

This is a project deployed on the blockchain network which allows creators (musicians) to store their audio files on IPFS hypermedia protocol.

Every time a user tries to download a file a hash code will be generated and if the user tries to re-upload the song a copyright issue will be raised.

# Our Solutions

## Copyright Policy

Blockchain has an excellent potential to be broadly applied in copyright protection and management applications. When an user will download a song, a hash wil be generated with the song, and if the user tries to re-upload the song with a creator account, then the copyright issue will be raised.

## No Third Party

By using blockchain transaction, we'll be able to remove third parties, such as banks and music companies involved in the payment process, right holders can help them receive almost all their royalties .

# Features of our Project



## Subscription

Two types of subscription (monthly/yearly) would be provided to users in which they can listen to paid songs and free songs as well depending upon the plan they opt for. Blockchain transactions can be used to implement the subscription feature. The payments can be made directly to the content creator avoiding the intermediaries.

## Pre-Orders

In this feature, the user would be able to give pre-orders to the album/song where they will be provided the option to download the file. Only the users who paid for the same can access this feature.

## Download option for album buyers

The user who buys an album would be able to download songs and listen to it offline but they won't be able to reupload the song as a creator since our copyright detecting algorithm would detect the same.

## Coins System

The users are supposed to collect coins in order to get a discount on subscriptions.

# Methodology

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HTML

CSS

JavaScript React

Next.js



Solidity programming  
language

Ethereum Blockchain

IPFS hypermedia protocol

Truffle development  
environment

Ganache (private Blockchain)



# Our Progress

Made a Header component which would remain the same for every page in our project.

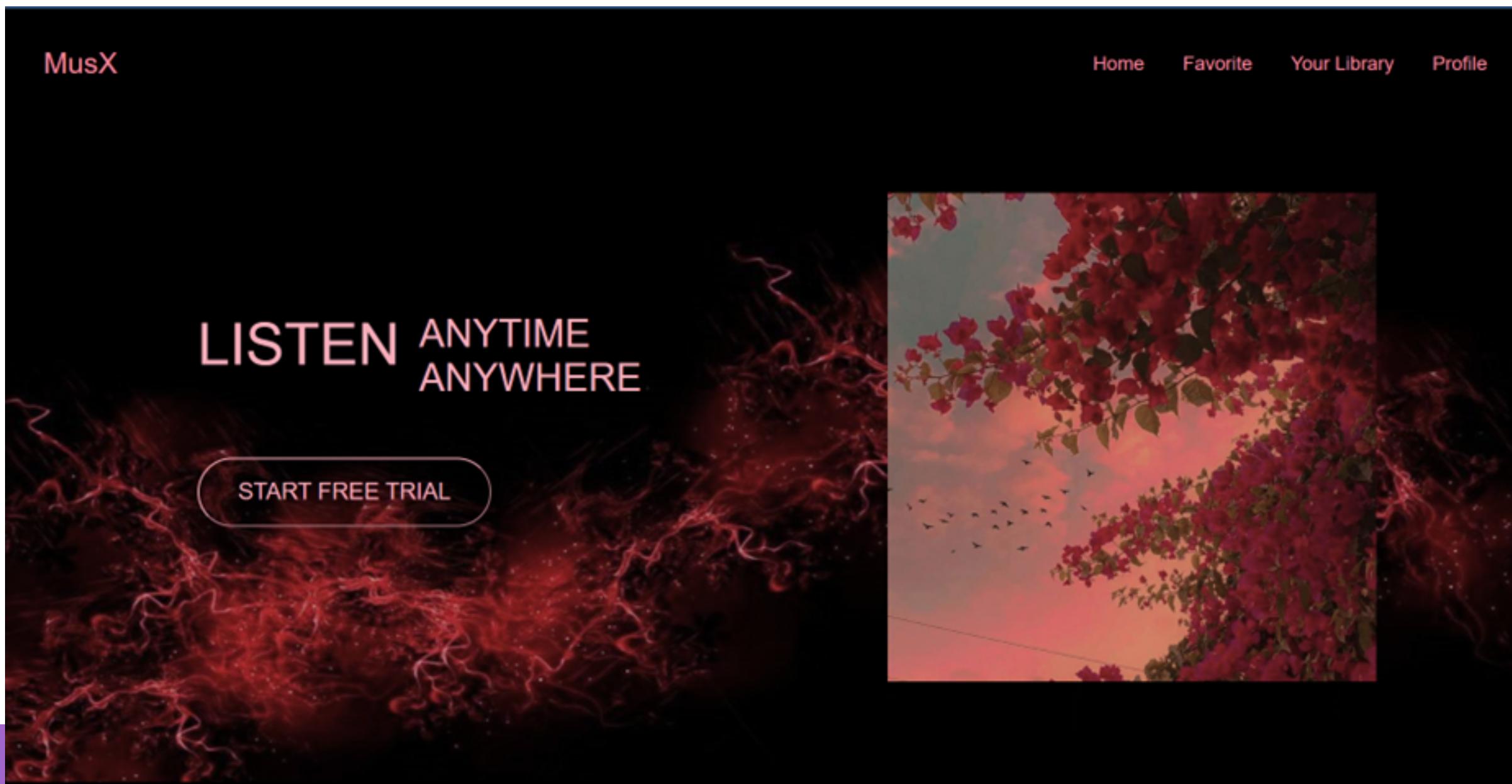
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MusX

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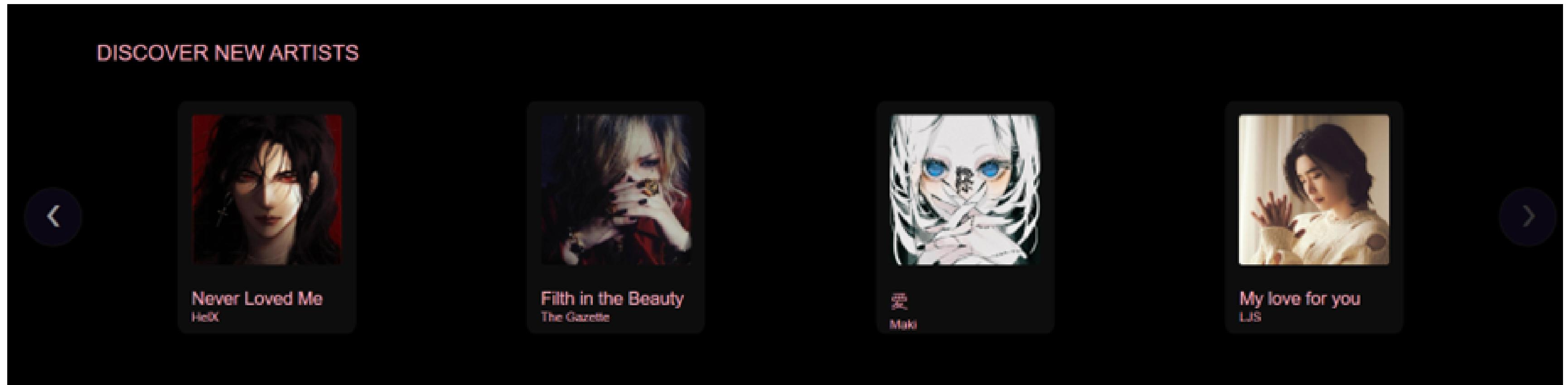
# Our Progress

Home Page with a Carousel for Albums and Playlist advertisement.



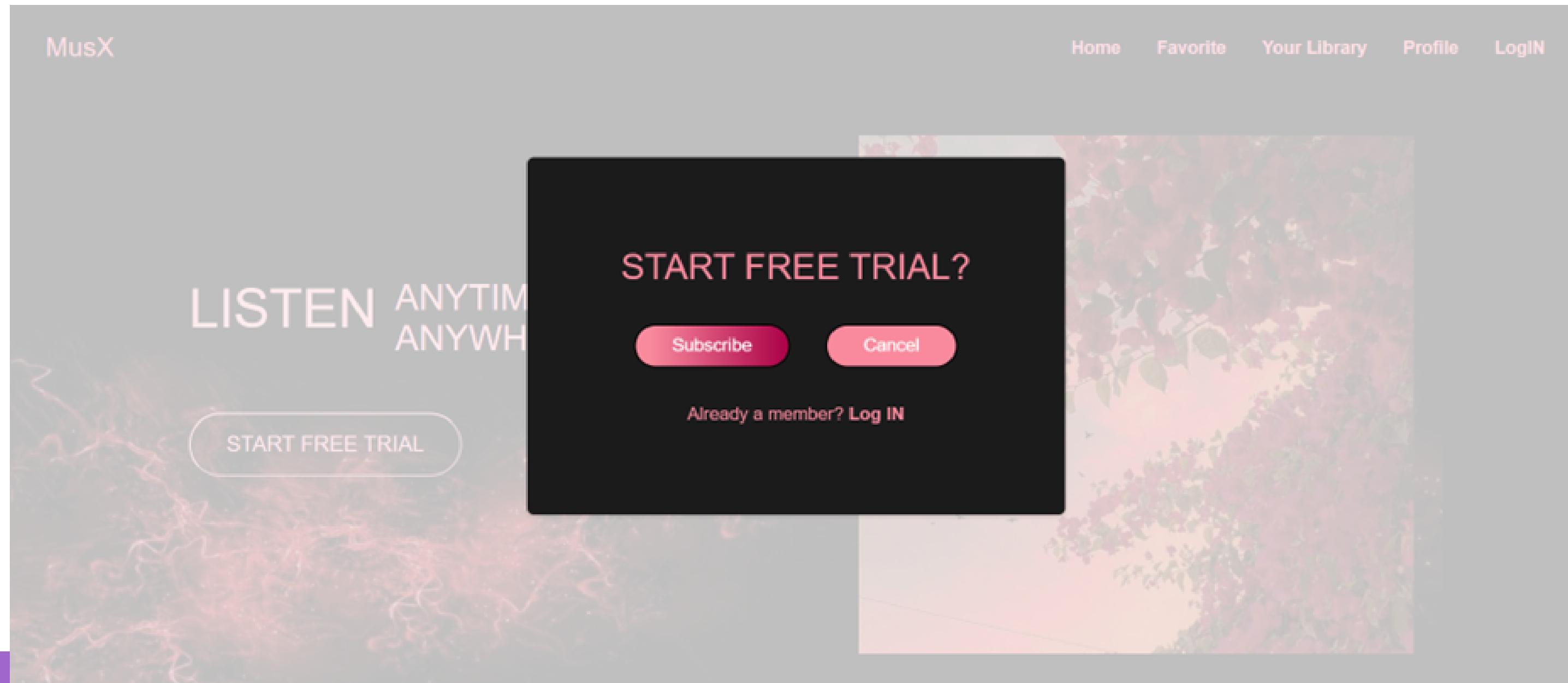
# Our Progress

Playlist Carousel which slides one at a time.



# Our Progress

Subscription box which closes if background or any of the button is clicked.



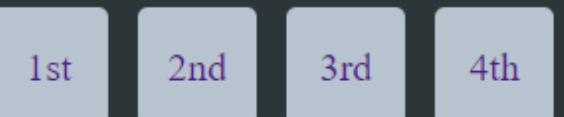
# Our Progress

Made a Footer component which would remain the same for every page in our project.

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## About Us

A platform to publish your music, download songs, listen to uninterrupted music.



## Quick Links

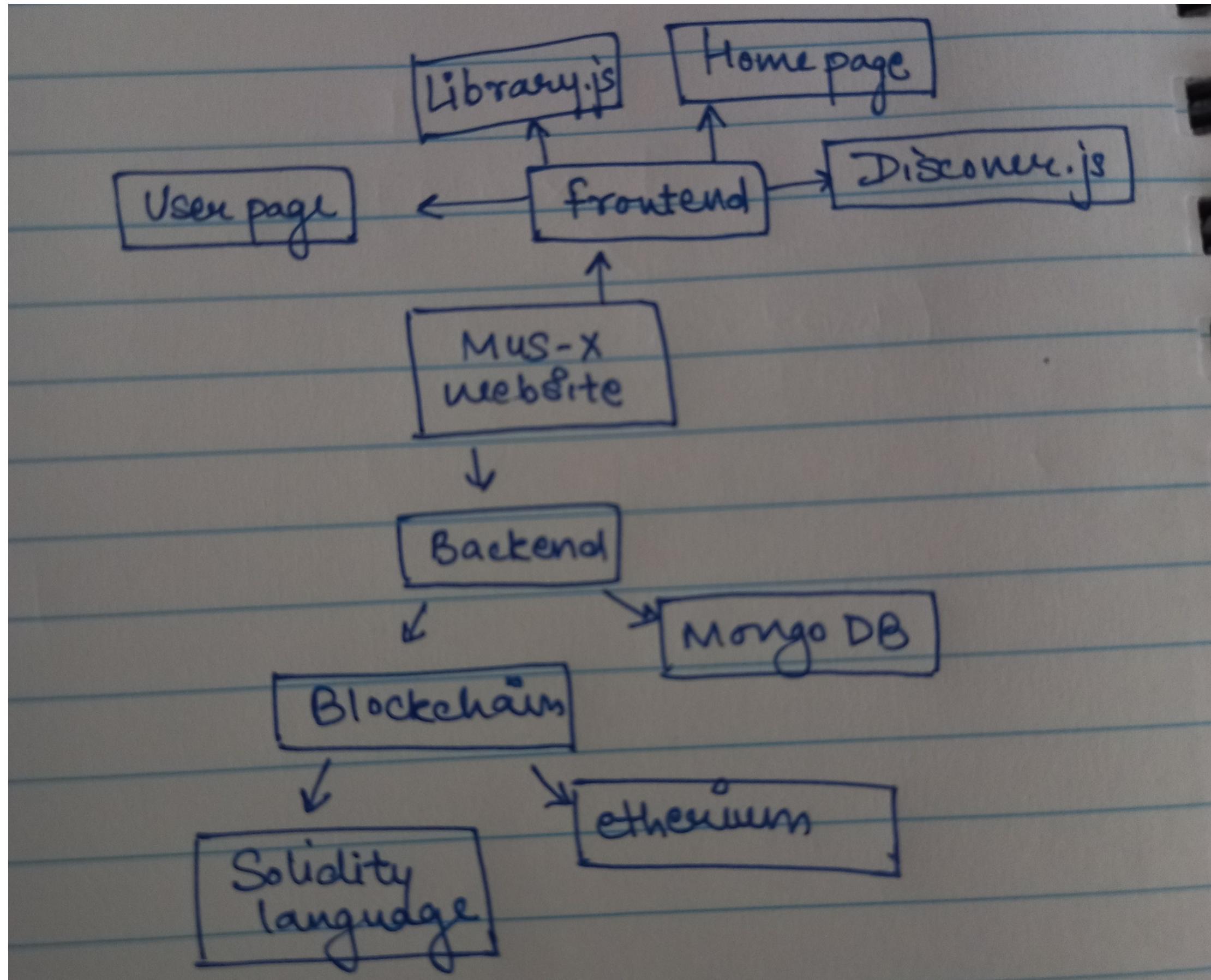
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## Account

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# Thank you