Stanley College of Engineering & Technology for Women
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Department of Computer Science & Engineering

Project on: Music Playlist **Date:**

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ABSTRACT

The predefined music playlist project is aimed at developing user friendly and a personalized music playlist system for users based on their preferences. The project involves designing and implementing a graphical user interface that allows the users to interact with the music player, selecting and playing audio tracks and managing playlists. This project utilizes various technologies such as HTML, CSS and JavaScript. The project also involves implementing features such as shuffle and repeat modes, song information display and playlist sharing.

This playlist contains 3 basic genres of music- hip-hop, Tollywood and Bollywood with few songs in each genre. This project aims to enhance the user's music listening experience by providing a personalized playlist that reflects their unique taste, that can be accessed anywhere and anytime without any advertisements that interrupt in between. The ultimate goal of this project is to provide the users with seamless and enjoyable music listening experience by giving them add-less music experience.

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PROBLEM STATEMENT

With the increase in the music streaming services and a large number of music albums being made by the artists, there is an abundance in the music available to listeners, making it extremely challenging to explore music in accordance to their preferences. Although, the music services or applications offer many services to their users using complex algorithms, knowledge of machine learning, by understanding the user's music routines etc by provide them with new playlists that they might like, these playlists may not always reflect upon the user's mood and interests. We also often notice in other music platforms, where the users are asked to login and pay to access unlimited music whereas the non-paid version plays limited music with a lot of advertisements which can be really disturbing.

As a result, there is a need for a music playlist that can provide a personalised and diverse music playlist for the users along with user friendly interface so that a wide range of audience can be benefitted from this. The project aims to develop a music recommendation playlist which takes into consideration various factors such as trending music worldwide, user preferences, and contextual information to create playlists that can reflect the user's mood. The playlist that is developed in this project has a very simple user interface and does not need any login authentication or any payment thus can be accessed by anyone. This playlist contains three basic genres hip-hop, Bollywood and Tollywood which contains few songs each so that the user can choose as per their wish and also shuffle among the music without any advertisement interruptions.

SCOPE

The scope of this project includes the following points:

1. Very simple and attractive user interface
2. Creating a curated collection of playlists that provide variety of genres.
3. No login authentication required
4. No payment required
5. Providing information about the songs and the artists to enhance the user's music knowledge and help discover new music
6. Regularly update the playlists with new songs for fresh content

This music playlist aims at delivering a collection of high-quality music that caters to the user's taste and mood. This project becomes successful when the music is able to play in a smooth and interactive manner and without any trouble while switching between the songs.

OBJECTIVES

The main objectives of the project are:

1. To provide a platform for users to access playlists of various genres in Hindi, Telugu, and English.
2. To create a user-friendly and easy-to-navigate website.
3. To provide an ad-free experience to users.
4. Since this is a website, it can run in the background so we can listen to music along with performing other tasks on or device.
5. No login authentication required and music access is direct
6. To promote the playlists to the wide range of audience and help them discover new music

The objectives of our music playlist are to deliver high quality music by categorizing them into 3 basic genres that can be played without any payment, login and also can be played without any advertisements. The playlists are predefined which makes it easier for the users to choose the type of music they would like to listen to depending upon their preferences which also saves a lot of time and effort since the users don't have to search for the music and create a playlist.

SOFTWARE AND HARDWARE REQUIREMENTS

SOFTWARE REQUIREMENTS:

1. Web development tools such as HTML editors, CSS preprocessors and JavaScript.
2. Audio software for generating the music
3. Visual studio code: Visual Studio Code is a streamlined code editor with support for development operations like debugging, task running, and version control
4. Netlify: Netlify is a remote first cloud computing company that offers a development platform that includes build, deploy, and serverless backend services for web applications and dynamic websites.

HARDWARE REQUIREMENTS:

1. A stable internet connection with sufficient bandwidth
2. A personal computer which supports the working of visual studio code and running it
3. Sufficient storage space for the files and data
4. RAM with proper memory to handle the huge program code

ADVANTAGES OF PROPOSED SYSTEM

The advantages of the proposed system are:

1. Ad-free listening experience: there are no advertisements that interrupt while listening to music or when you try switching among the songs

2. Wide variety of playlists of different genres: music not restricted to just one language or genre but contain a variety of different playlists

3. Easy-to-navigate website: since it is an official website, the link address or the website name is enough to access the website

4. User-friendly and attractive interface: simple interface which is understandable by many people and does not require any predefined knowledge. An attractive interface makes it aesthetically pleasing.

5. Predefined playlists for easy navigation of music: finding the songs wouldn't take any long once you know the category that it falls under. So instead of searching for it throughout the music library, we can easily navigate it by clicking on the desired playlist.

6. Music can be run in the background: this website allows the music to be played in the background so that we can perform other tasks on our device while listening to the music.

FRAMEWORK AND MECHANISM

The proposed system is developed using HTML, CSS, and Netlify. Our music player project would involve the following components:

User Interface: This component includes the graphical user interface (GUI) that enables users to interact with the music player. The user interface can be designed using various tools such as HTML, CSS, and JavaScript.

Audio Player: This component is responsible for playing and controlling the audio tracks. The audio player can be implemented using a library such as HTML5 Audio API, or a framework such as React Native, or a platform-specific library such as AVPlayer in iOS.

Database: This component stores information about the music tracks such as artist name, album, genre, and other metadata. The database can be implemented using various technologies such as SQLite, MySQL, or MongoDB.

The mechanism for the music player project would involve the following steps:

1. Design the user interface for the music player using HTML, CSS, and JavaScript.
2. Implement the audio player using a library or a framework.
3. Design and implement the database to store information about the music tracks.
4. Test and deploy the music player project to a web server or a mobile device
5. Maintain and update the music player project as needed

ALGORITHM:

A. When the user first enters the website, he is greeted with an attractive user interface
B. Once we scroll down, we see three genres of music- English, Bollywood and Tollywood.
C. When we click on a specific genre, say Tollywood, the music player opens which plays the first song
D. We can forward, rewind and shuffle as per our requirement.

FLOWCHART

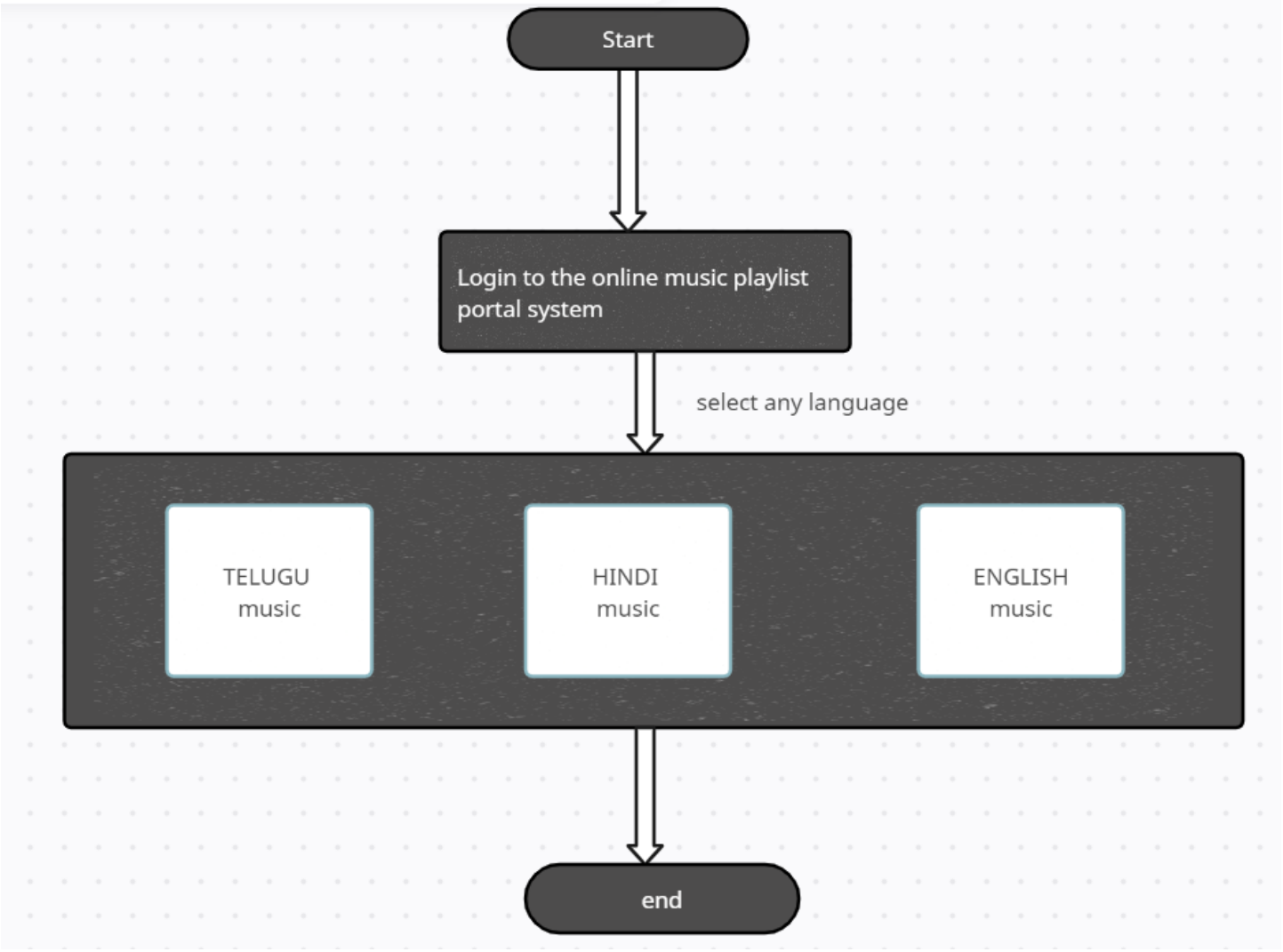

Fig: flowchart demonstrating the flow of music player

IMPORTANT CODE

```
<!DOCTYPE html>
<html>
<head>
<title> SLAV</title>
<link href="frontend.css" rel="stylesheet" type="text/css">
<link rel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
</head>
<header>
    <br><h2 align="center"><font color="white">STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN</h2><br>
   <h2 align="center">CSE DEPARTMENT</h2></font>
    </header>
<body>
   <div class="body">
      <div class="container1">
      <div class="row">
      <div class="left-side" >
      <div class="info">
         <style>.container {
            text-align: top;
            position: absolute;
            top: 35%;
            left: 20%;
            transform: translate(-50%, -50%);
            width: 30%;
         }
         .container span {
            display: block;
         }
         .text1 {
            color: white;
            font-size: 60px;
            font-weight: 700;
            letter-spacing: 8px;
            margin-bottom: 20px;
```

```
        position: relative;
        animation: text 3s 1;
    }
    .text2 {
        font-size: 50px;
        color: rgb(68, 29, 12);
        font-family: Georgia, serif;
    }
    @keyframes text {
        0% {
            color: black;
            margin-bottom: -40px;
        }
        30% {
            letter-spacing: 25px;
            margin-bottom: -40px;
        }
        85% {
            letter-spacing: 8px;
            margin-bottom: -40px;
        }
    }</style>
    <div class="container">
        <div class="row">
        <br><span class="text1">Welcome</span>
    <span class="text2">SLAV 🎧 </span></div>
    </div>
<br><br><br><br><br>
<h1><p style="text-align:left;"></p>▶ Let the<br> music
    take over</h1></p>
</div>
</div>
<div class="right-side"  >
<div class="about-img">
<img src="https://i.pinimg.com/originals/44/6a/1d/446a1dc64ff9fbcf932fab52964be88a.jpg" >
</div>
</div>
<div class="left-side"  >
```

```
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        </div>
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      </div>
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      </div>
            <div class="box-text">
         <div class="waviy">
          <center><span style="--i:1">H</span>
          <span style="--i:2">I</span>
          <span style="--i:3">P</span>
          <span style="--i:4">-</span>
          <span style="--i:5">H</span>
          <span style="--i:6">O</span>
          <span style="--i:7">P</span></center>
         </div> <a href="#">view more</a>
      </div>
      </div>
      <div class="box">
      <div class="box-img">
</body>
<footer>
   <div class="footer-content">
   <hr>
   <br>
   <h4><font color="white">Thank you for visiting our profile</font><br><br></h4>
   <h4><font color="white">Amrutha Sriya: 160621733065<br>
   Shreeya Vanka: 16062133052<br>
   A Lydia Lois:160621733001<br>
   Varshitha B:160621733304</h4></font>
   </div></footer></html
```

CONCLUSION AND OUTPUT SCREENSHOTS

CONCLUSION

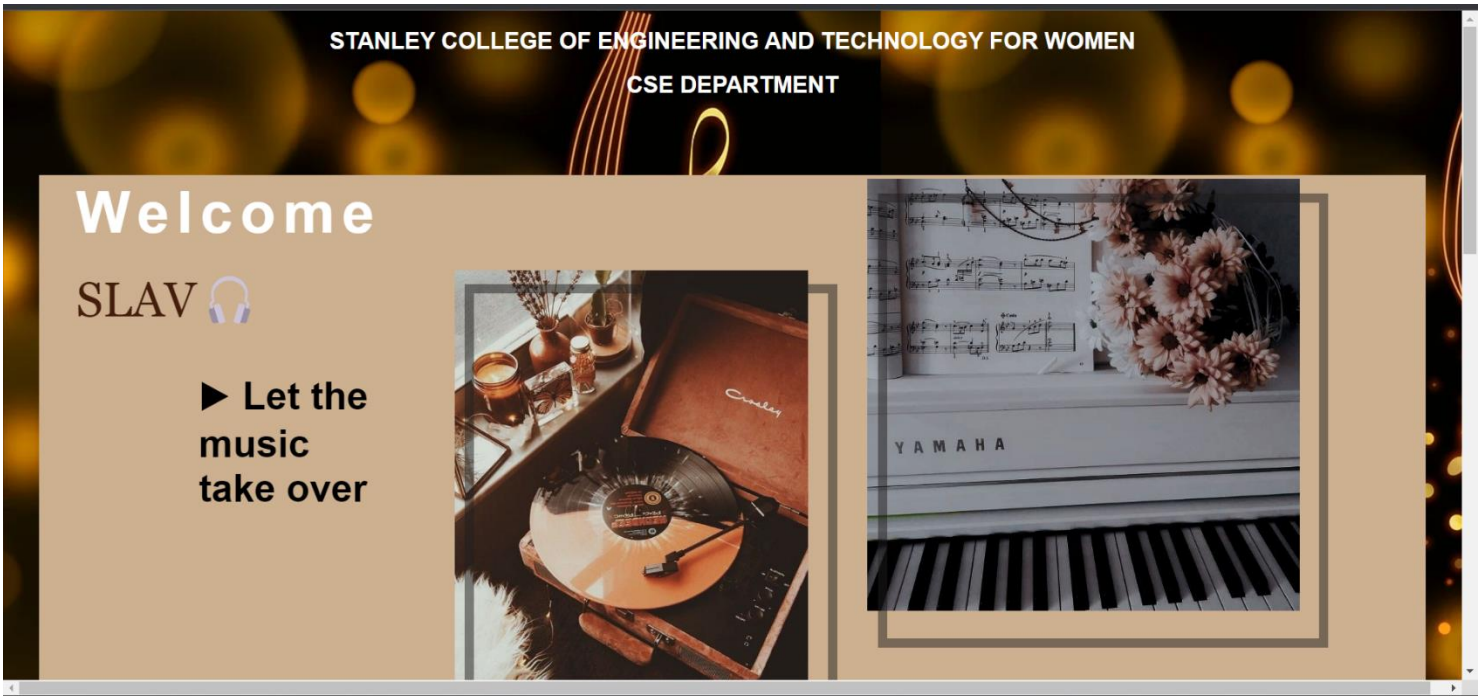
In conclusion, the proposed system provides a user-friendly interface with seamless streaming with minimum buffering time, and users can save their playlists. The system can be accessed from any device with an internet connection and is easy to deploy and maintain.

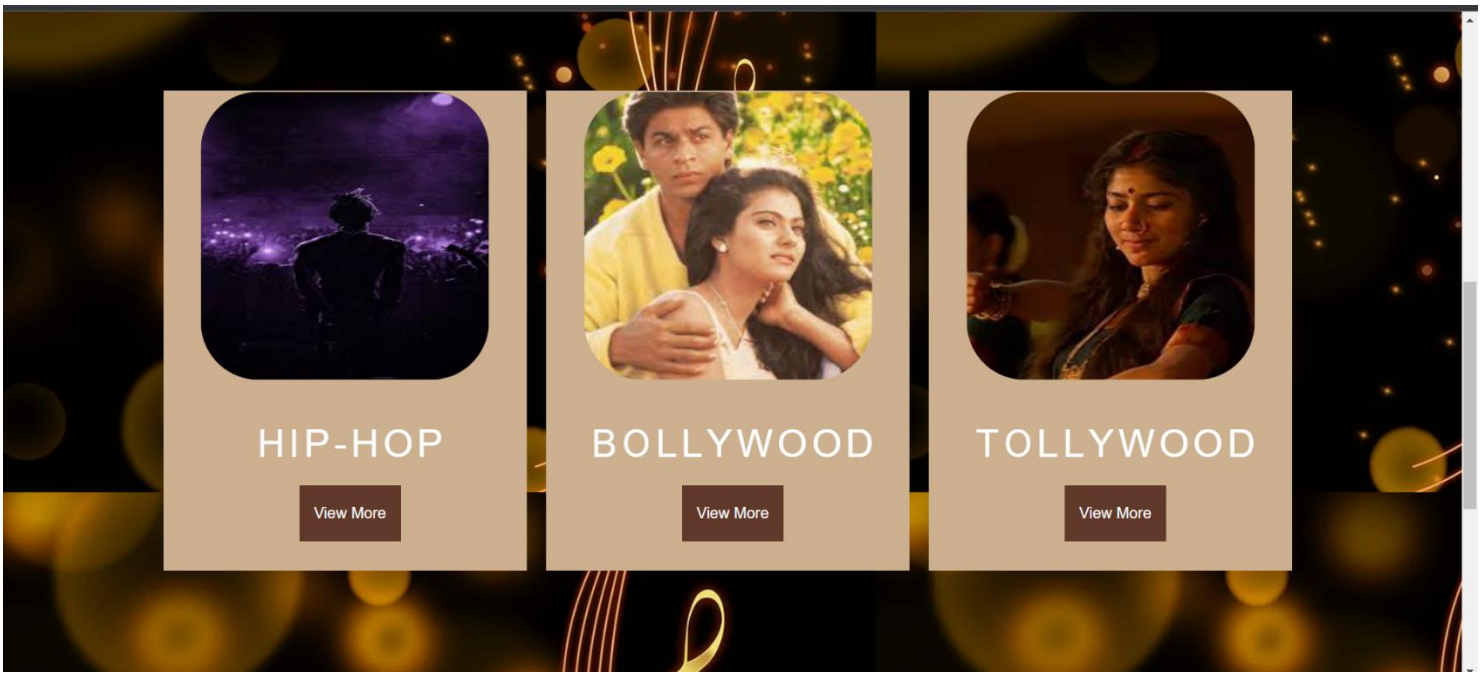
Output screenshots can be attached to showcase the web-based music player's user interface, playlist creation, and song recommendation features.

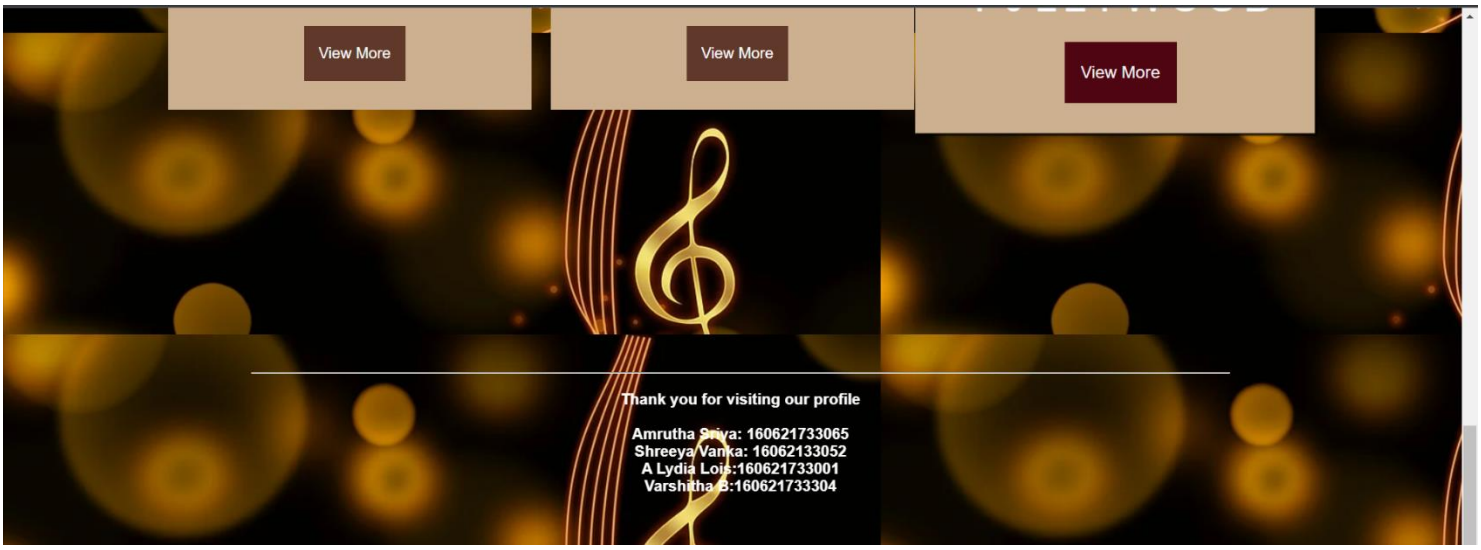
The music player website has a great potential for growth and expansion. With the implementation of personalized recommendations, social sharing, podcasts and audiobooks, live streaming, and collaborations with artists, the website can attract more users, increase engagement, and generate revenue. By keeping up with the latest trends and constantly updating its services, the website can establish itself as a leader in the music industry.

OUTPUT SCREENSHOTS

HOME PAGE




HIP-HOP
View More
BOLLYWOOD
View More
TOLLYWOOD
View More


View More
View More
View More
Thank you for visiting our profile
Amrutha Sriya: 160621733065
Shreeya Vanka: 16062133052
A Lydia Lois:160621733001
Varshitha B:160621733304

FUTURE SCOPE

The proposed system can be further improved by adding more advanced features such as podcasts and audiobooks, live streaming, and collaborations with artists. The algorithm can be improved to provide more accurate song recommendations, and the social sharing feature can be enhanced to allow for playlist collaboration between users. Additionally, the system can be integrated with other music streaming platforms to provide a more extensive library of songs.

There are several ways in which the music player website can improve and expand its services to cater to a wider audience:

1. Personalized Recommendations:

The website can integrate an AI-based recommendation system that suggests songs to users based on their listening history, likes, and preferences. It will enhance the user's experience and keep them engaged on the website for longer.

2. Social Sharing:

The website can integrate social media sharing features that allow users to share their playlists with their friends on social media platforms. This will help in increasing the website's visibility and attract more users to the platform.

3. Podcasts and Audiobooks:

The website can expand its library to include podcasts and audiobooks, which will cater to a broader audience base. It will also provide users with more options to choose from and keep them engaged on the platform.

4. Live Streaming:

The website can consider adding a live streaming feature that allows users to stream live music events, concerts, and festivals. It will help in creating a more interactive and engaging experience for users.

5. Collaborations with Artists:

The website can collaborate with artists to launch new releases and exclusive content on the platform. It will attract more users to the platform and create a buzz around the website.