



NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

Team Members

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College Name

Loyola ICAM College of
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CAPSTONE PROJECT SHOWCASE

Project Title

Music Web Application using Django Framework

Abstract | Problem Statement | Project Overview | Proposed Solution |
Technology Used | Modelling & Results | Conclusion



Abstract

This project involves development of a music application using Django. This application will allow users to create accounts, manage music libraries and stream music. Key features include user authentication, a responsive user interface, secure file storage, and a dynamic music player interface. Additionally, the application will utilize Django's built-in ORM for database management and RESTful APIs for seamless integration with frontend technologies.

Problem Statement

Creation of Music Web Application using Django Framework

Project Overview

This project endeavors to craft a contemporary and intuitive music streaming application utilizing Django. It empowers users to establish personalized accounts, curate their music libraries, and indulge in uninterrupted streaming of beloved tracks. Highlighted features encompass robust user authentication, adaptable design catering to diverse devices, safeguarded file storage, and an effortless music player interface. Through harnessing Django's ORM and RESTful APIs, our aim is to furnish a dependable platform enriching the music listening journey for every user.

Proposed Solution

Our solution involves building a music streaming application using Django, integrating essential features like user authentication, music upload and management, and a responsive music player. We will implement secure file storage for user uploads and ensure compatibility across different devices through responsive design. The use of Django's ORM will facilitate efficient database management, while RESTful APIs will enable seamless communication with the frontend. Our aim is to create a streamlined and enjoyable music streaming experience for users, emphasizing simplicity and functionality.

Technology Used

Front-end



Back-end



Modelling & Results

In this project, we'll create a Django data model to manage users, music tracks, and playlists. We'll use Django's built-in ORM for storing and retrieving data efficiently. User authentication will be set up using Django's ready-made authentication system. On the frontend side, we'll design responsive templates using HTML, CSS, and JavaScript to ensure smooth user interaction. For playing music, we'll use Django's file handling features along with a customized music player interface.

Homepage

Mtunes

feb

Logout

Welcome to Mtunes

Listen to your favorite songs

Search Songs...



naa ready - anirudh



leo



0:00 / 4:14



Add to Watch Later

naa gaali - anirudh



vaathi



0:00 / 4:42



Add to Watch Later

About-Us-Page

Mtunes

feb

Logout

About Mtunes

Mtunes isn't just a music platform; it's your loyal Mtunesl partner, perpetually tuned into the freshest beats and tunes. Our fervor is in the joy of uncovering, always on the hunt for those hidden Mtunesl treasures that will captivate your senses. Embark with us on an endless voyage of discovery, where each note reveals an uncharted realm of sound.

Our Mission

At Mtunes, we're dedicated to revolutionizing your music journey. We're pushing the limits by seamlessly integrating personalized suggestions with innovative trend analysis, surpassing traditional streaming platforms. Through the power of data and machine learning, we unveil a Mtunesl cosmos crafted specifically for your changing preferences and the vibrant cultural shifts shaping today's music scene. Come with us as we transform your music experience from ordinary to extraordinary.

The Mtunes Team

At Mtunes, we're a passionate coalition of music aficionados, data experts, and technological maestros driven by our shared adoration for music and a commitment to crafting an ever-evolving listening adventure. Through relentless innovation and fine-tuning of our algorithms, we guarantee that Mtunes remains at the forefront, delivering the freshest trends directly to your ears, ensuring you're always in sync with the latest Mtunesl currents.

Start Your Listening

Watch Later List

Mtunes

feb

Logout

Your Watch Later List

- naa ready - anirudh
- naa gaali - anirudh

© Mtunes

Login-Page

Login

Username:

Password:

Login

Register Page

Register

Username:

Email:

Password:

Confirm

Password:

Future Enhancements:

In the future, we could implement features such as personalized recommendations based on listening history, social sharing of playlists, integration with external music APIs for expanded content access, and support for offline playback. We could also enhance the user interface with more interactive elements. Continuous performance optimization and scalability improvements could also be done for growing user base.

Conclusion

In conclusion, this Django-based music streaming application presents a scalable and feature-rich platform for music enthusiasts. By leveraging Django's robust framework, I have developed a responsive and secure solution that prioritizes user experience. With planned future enhancements, we are committed to evolving this application to meet the dynamic demands of music streaming while maintaining a seamless and enjoyable experience for our users.

Thank You!