NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

Team Members

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Loyola ICAM College of Engineering and Technology

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 entails the creation of a music platform using Django. The platform will empower users to register accounts, curate their music collections, and enjoy seamless music streaming. Prominent features encompass user verification, an adaptable user interface, encrypted file storage, and an interactive music player interface. Moreover, the platform will

Source :

leverage Django's integrated ORM for efficient database administration and RESTful APIs to seamlessly amalgamate with frontend technologies.

Problem Statement

Creation of Music Web Application using Django Framework

Project Overview

This project endeavors to build a contemporary and intuitive music streaming platform utilizing Django. The platform will empower users to establish customized accounts, organize their music libraries, and indulge in uninterrupted streaming of their preferred tunes. Noteworthy features encompass user verification, adaptable design catering to diverse devices, encrypted file storage, and an instinctive music player interface. By harnessing Django's ORM capabilities and RESTful APIs, our objective is to furnish a dependable platform that elevates the music listening journey for all users.

Proposed Solution

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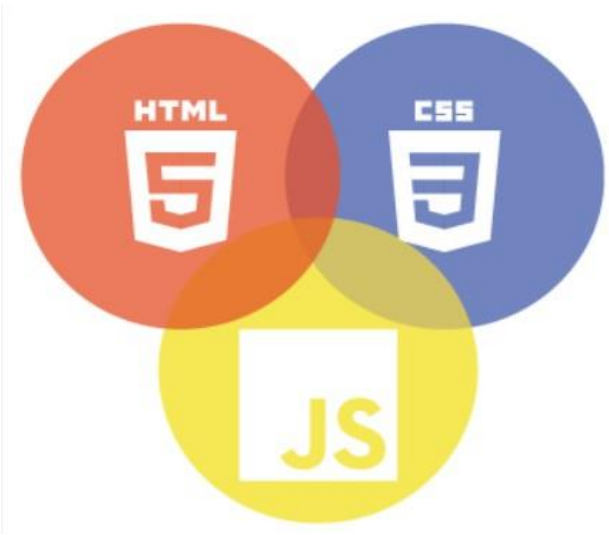
Our endeavor entails crafting a music streaming platform utilizing Django, integrating vital functionalities such as user authentication, music upload and administration, and a dynamic music player. We'll deploy secure file storage mechanisms for user uploads and ensure crossdevice compatibility through responsive design techniques. Employing Django's ORM capabilities will streamline database management, while the adoption of RESTful APIs will foster smooth communication with the frontend. Our objective is to establish a seamless and gratifying music streaming experience, prioritizing ease of use and practicality.

Technology Used

Front-end

Back-end

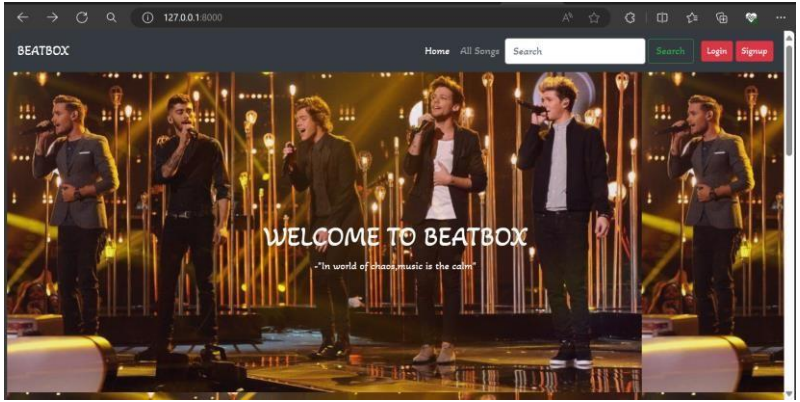

HTML
CSS
JS

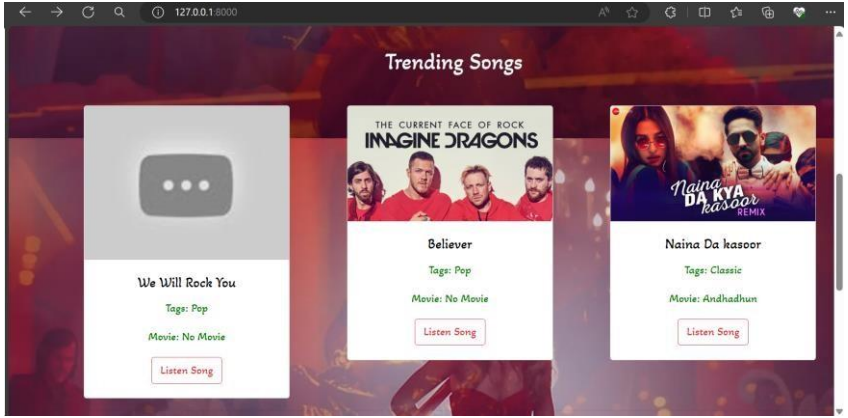

python
django

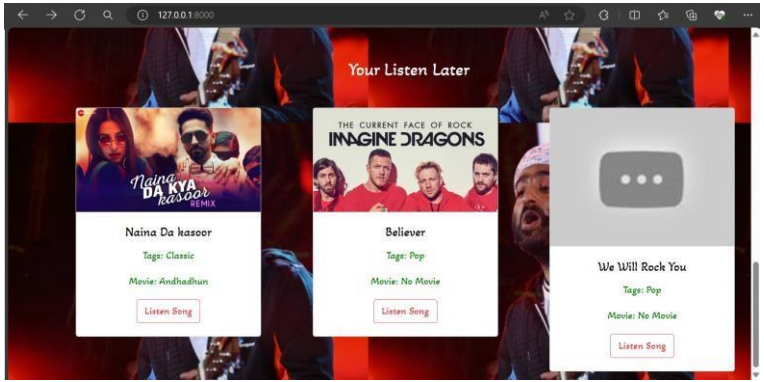
Modelling & Results

The project will encompass formulating a Django data schema to depict users, music compositions, and playlists. Through Django's ORM, we'll ensure adept data storage and retrieval mechanisms. User validation will be orchestrated leveraging Django's inherent authentication framework. On the frontend, we'll craft responsive templates employing HTML, CSS, and JavaScript to facilitate seamless user engagement. Music streaming functionality will be realized through Django's file management features alongside a tailor-made music player interface.

Homepage


127.0.0.1:8000
BEATBOX
Home
All Songs
Search
Search
Login
Signup
WELCOME TO BEATBOX
-"In world of chaos,music is the calm"

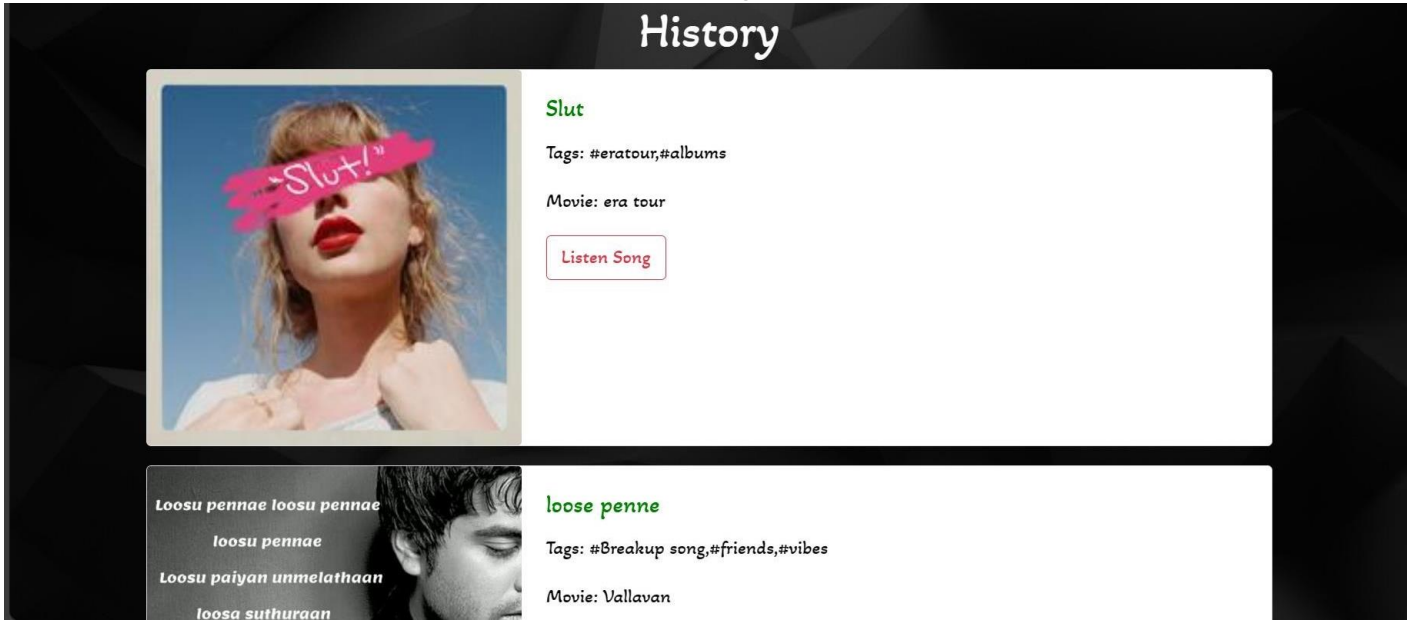

127.0.0.1:8000
Trending Songs
We Will Rock You
Tags: Pop
Movie: No Movie
Listen Song
THE CURRENT FACE OF ROCK
IMAGINE DRAGONS
Believer
Tags: Pop
Movie: No Movie
Listen Song
Naina Da kasoor
Tags: Classic
Movie: Andhadhun
Listen Song


127.0.0.1:8000
Your Listen Later
Naina Da kasoor
Tags: Classic
Movie: Andhadhun
Listen Song
THE CURRENT FACE OF ROCK
IMAGINE DRAGONS
Believer
Tags: Pop
Movie: No Movie
Listen Song
We Will Rock You
Tags: Pop
Movie: No Movie
Listen Song

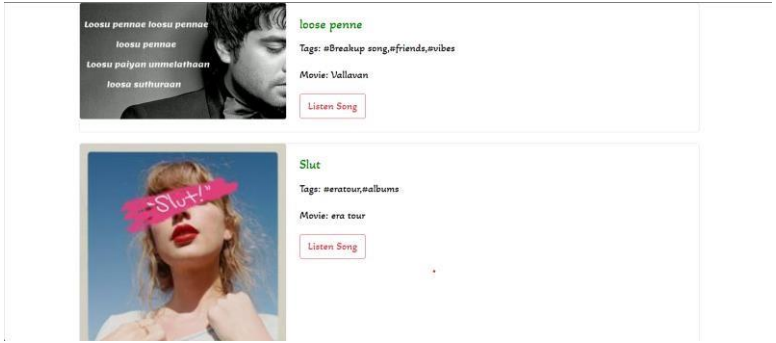
Sign Up

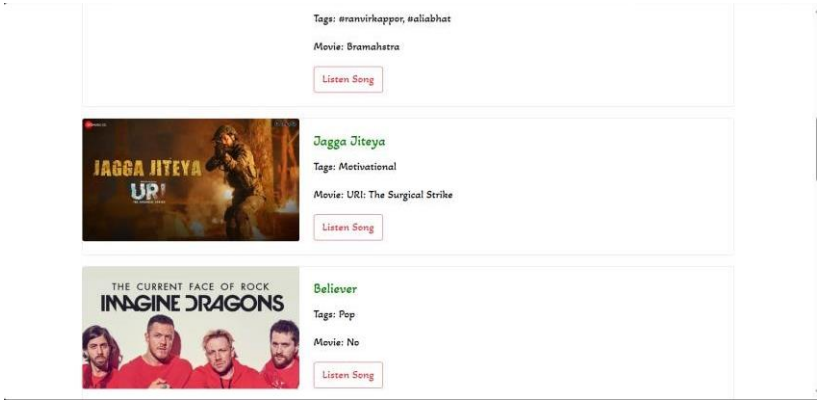

127.0.0.1:8000/musicbeats/signup
"இசை, காதலின் மொழி; மனதில் நேசம் அடையும் பேச்சு"
SIGN UP
Email address
name@example.com
Username
First Name
Last Name
Password
Password (again)
SignUp

History


History
Slut
Tags: #eratour,#albums
Movie: era tour
Listen Song
Loosu pennae loosu pennae
loosu pennae
Loosu paiyan unmelathaan
loosa suthuraan
loose penne
Tags: #Breakup song,#friends,#vibes
Movie: Vallavan

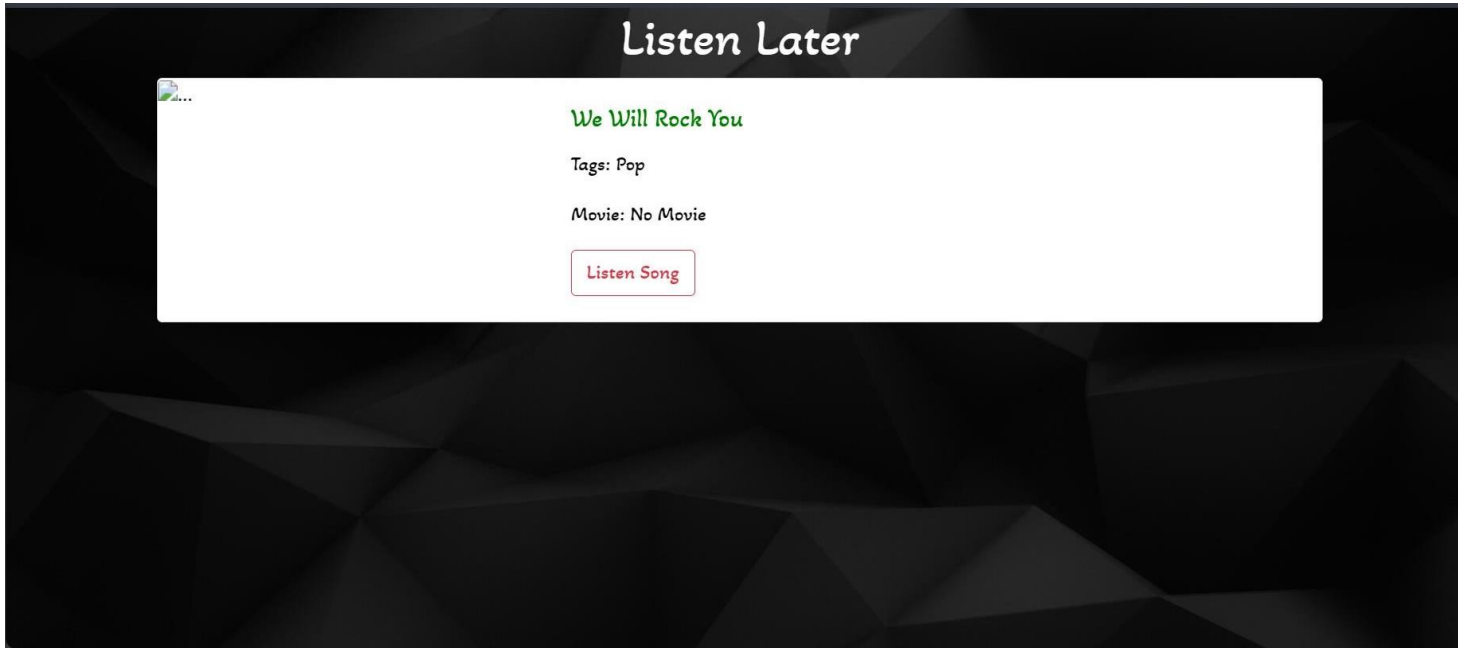
All Songs


Loosu pennae loosu pennae
loosu pennae
Loosu paiyan ummelathaan
loosa suthuraan
loose penne
Tags: #Breakup song,#friends,#vibes
Movie: Vallavan
Listen Song
Slut
Tags: #eratour,#albums
Movie: era tour
Listen Song


Tags: #ranvirkappor, #aliabhat
Movie: Bramahstra
Listen Song
JAGGA JITEYA
URI
Jagga Jiteya
Tags: Motivational
Movie: URI: The Surgical Strike
Listen Song
THE CURRENT FACE OF ROCK
IMAGINE DRAGONS
Believer
Tags: Pop
Movie: No
Listen Song

edunet foundation

Listen Later



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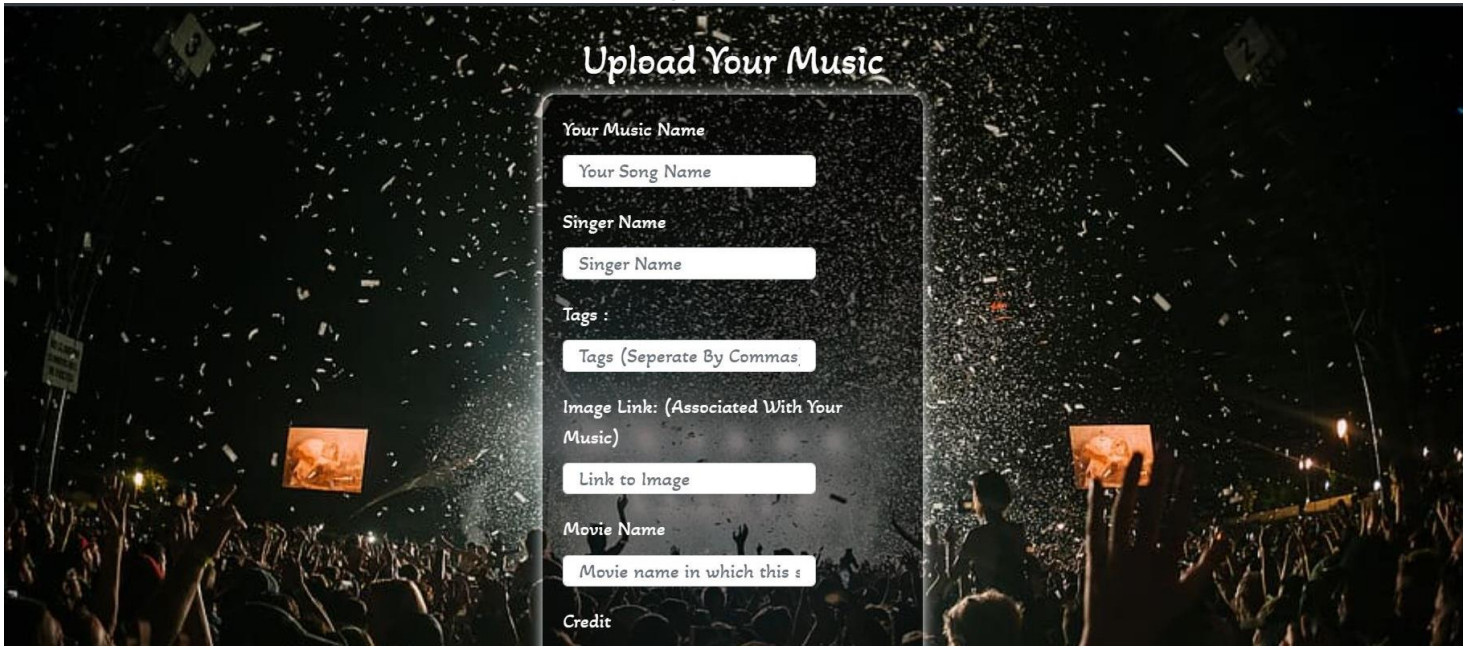
Playlist Upload



Future Enhancements:

Moving forward, potential enhancements could include integrating personalized recommendations derived from user listening patterns, enabling social sharing of playlists, and integrating external music APIs for broader content access. Additionally, supporting offline playback and enriching the user interface with interactive elements could enhance user experience. Continuous efforts towards performance optimization and scalability enhancements will be crucial to accommodate a growing user base.

Conclusion

To summarize, the Django-powered music streaming application offers a scalable and comprehensive platform tailored for music enthusiasts. Utilizing Django's robust framework, I've crafted a responsive and secure solution that prioritizes user satisfaction. With ongoing development and planned future enhancements, we are dedicated to evolving the application to adapt to the evolving landscape of music streaming, ensuring a seamless and delightful experience for our users.

Thank You!