NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

Team Members

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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

Music Streaming Website

- Our project is a music streaming website featuring the top 6 trending songs accessible to users upon signing in.
- Key features include user authentication, a curated selection of trending songs, extensive music catalog, playlist creation, and social sharing capabilities.
- With a responsive design, the platform ensures seamless music enjoyment across devices.
- By offering free access to trending music, we aim to create an engaging experience for music enthusiasts while fostering a vibrant community of users.

Source https://github.com/GIBSONGODSAN/DjangoFramework-Gibson-LICET-4024-LICET

Problem Statement

Develop a music streaming website that offers immediate access to the top 6 trending songs upon signing in, fostering user engagement and community interaction. Ensure a seamless cross-device experience while prioritizing user privacy and security and the following objectives.

1. Trend Accessibility
2. User Engagement
3. Seamless Experience
4. Privacy and Security

Source https://github.com/GIBSONGODSAN/DjangoFramework-Gibson-LICET-4024-LICET

Project Overview

1. Title: Music Streaming Website Development
2. Objective: Create a platform allowing users to access the top 6 trending songs upon signing in, fostering engagement and community among music enthusiasts.
3. Key Features:
   - Trend Accessibility
   - User Engagement
   - Seamless Experience
   - Privacy and Security
4. Technologies Used:
   - Django REST Framework
   - SQLite3 Database
   - HTML, CSS, JavaScript
   - Bootstrap Framework
5. Target Audience: Music enthusiasts seeking easy access to trending music without subscription barriers.
6. Expected Outcome: A responsive and user-friendly music streaming website offering curated trending songs, facilitating user interaction, and ensuring data privacy and security.

Source https://github.com/GIBSONGODSAN/DjangoFramework-Gibson-LICET-4024-LICET

Proposed Solution

1. Trend Accessibility: Display top 6 trending songs on the homepage for immediate access upon signing in.

2. User Engagement: Enable interactive features like liking, commenting, and sharing. Allow playlist creation, song favoriting, and user following for community building.

3. Seamless Experience: Design responsive layouts using HTML, CSS, and Bootstrap for smooth functionality across devices.

4. Privacy and Security: Implement robust authentication with Django and ensure secure data storage and transmission.

5. Content Curation: Continuously update trending songs based on user interactions and employ algorithms for personalized recommendations.

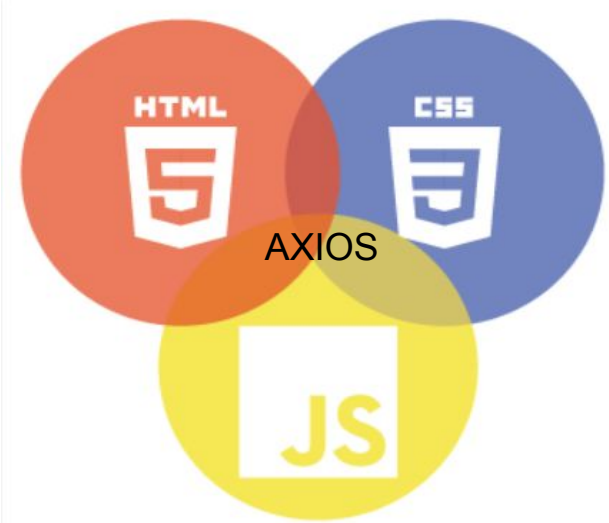
6. Scalability: Develop a scalable platform to accommodate future feature expansions and increasing user demands.

7. Feedback Mechanism: Integrate feedback mechanisms to gather user insights for ongoing improvements.

Source https://github.com/GIBSONGODSAN/DjangoFramework-Gibson-LICET-4024-LICET

Technology Used

Front-end



Back-end

Source https://github.com/GIBSONGODSAN/DjangoFramework-Gibson-LICET-4024-LICET

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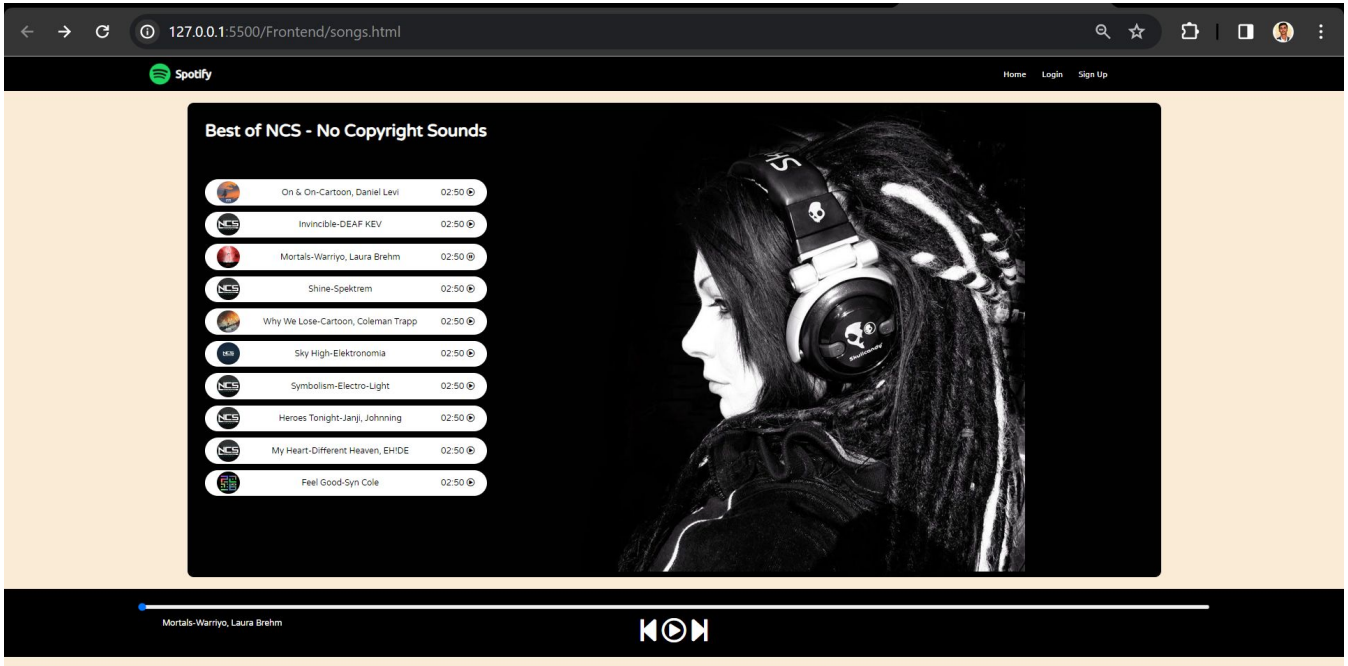
Homepage



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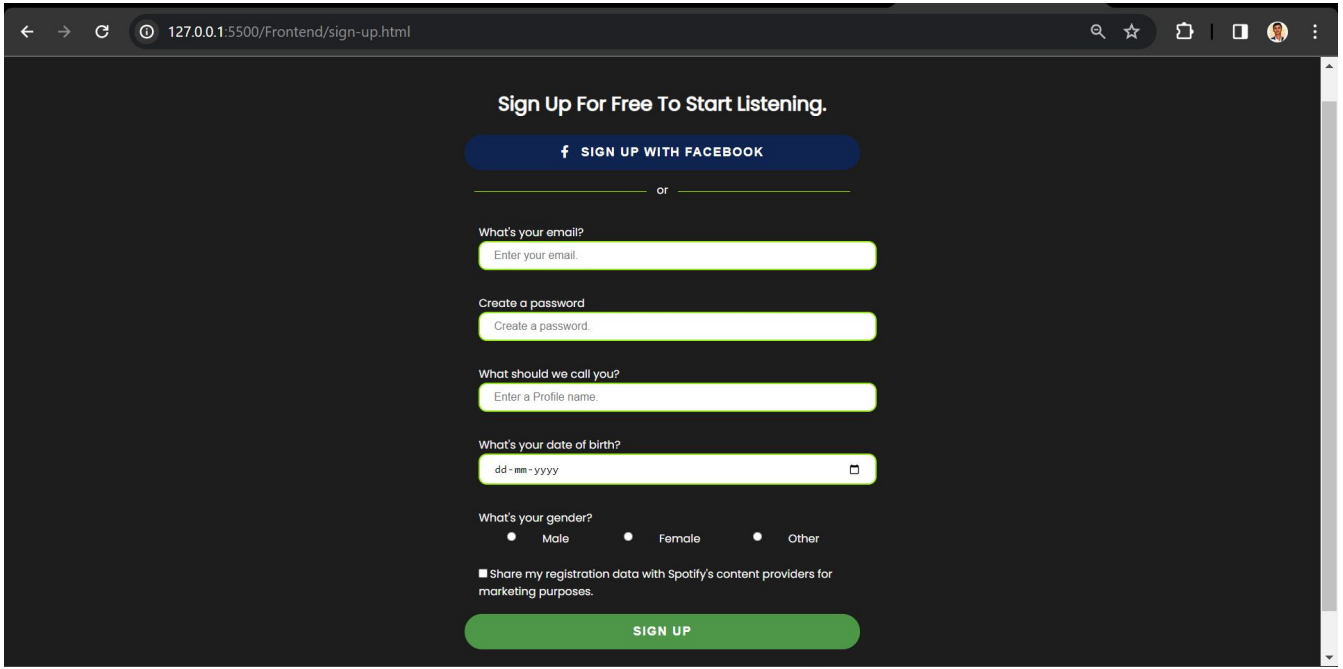
SIGN-UP PAGE



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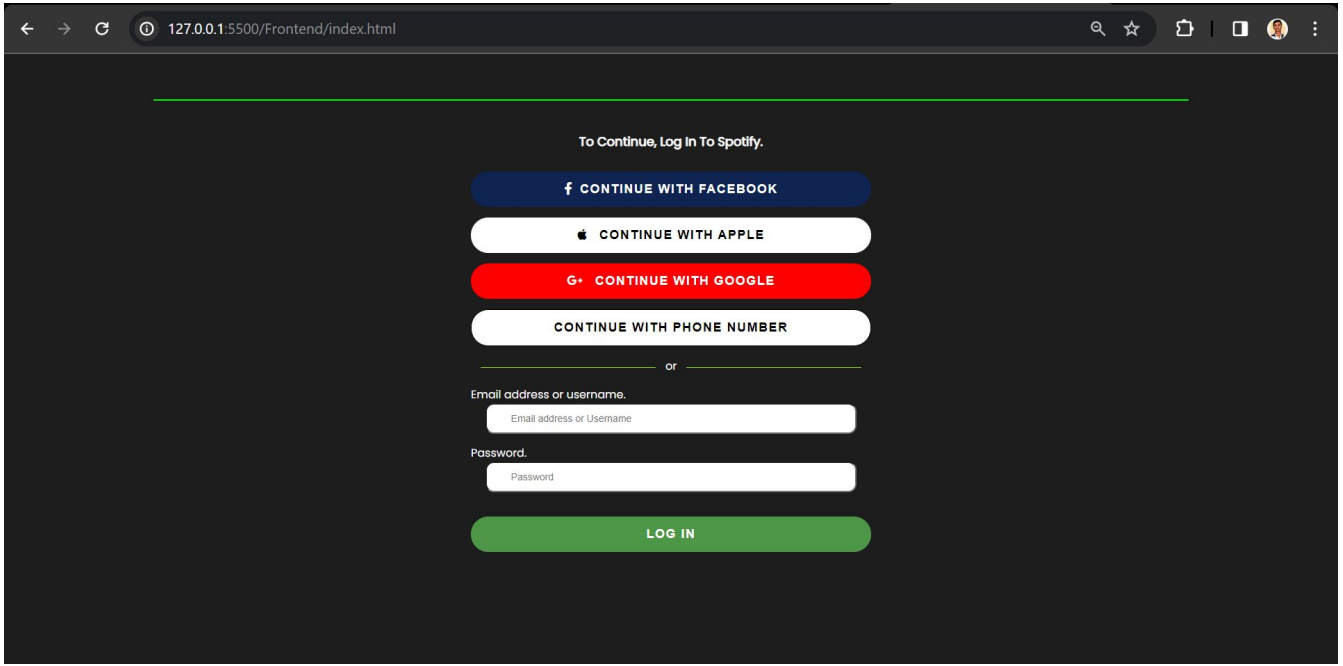
SIGN IN PAGE



Conclusion

1. Clone the repository:
   git clone <repository-url>

2. Navigate to the project directory:
   cd music_application

3. Install Python dependencies:
   pip install -r requirements.txt

4. Apply database migrations:
   python manage.py migrate

5. Run the development server:
   python manage.py runserver

6. Access the application at `http://localhost:8000` in your web browser.

Source https://github.com/GIBSONGODSAN/DjangoFramework-Gibson-LICET-4024-LICET

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Thank You!