

Music Streaming App

(App-dev1 Project)

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Description:

The name of the app is Groove. Groove is a music streaming web app for listening music. The app is made by :

Creating the database tables using flask-sqlalchemy.

Using flask routes to link the pages.

Using werkzeug for password hashing.

Adding Bootstrap to HTML CSS pages.

Using matplotlib to get app performance graphs.

Frameworks Used:

Flask

Jinja2

Bootstrap

SQLite3

Flask-SQLAlchemy

Matplotlib

Features:

Separate Login/Register pages for Users, Admins and Creators.

User can rate songs, read lyrics, create/delete playlists.

User can register to become a Creator.

User can search Songs and Albums based on name and genre.

Creator has all the functionalities as of User.

Creator can upload/edit/delete Songs and Albums.

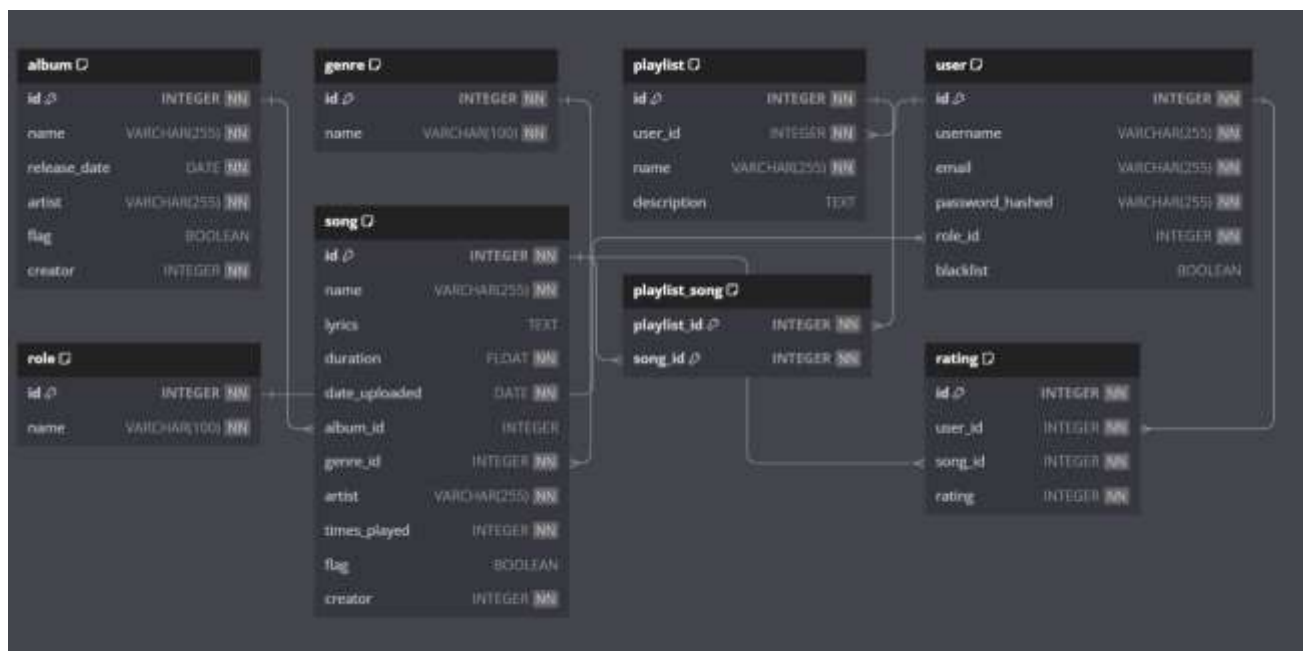
Creator dashboard which has the average rating, songs and albums uploaded.

Admin dashboard which has the total songs, genres, albums, playlists, users, creators data and various performance graphs of the app.

Admin can Flag/Delete any song which breaches the app policy.

Admin can Blacklist any User/Creator.

Database Schema:



System Design:

The app follows MVC architecture style.

Templates Folder – stores all HTML pages.

Static Folder – stores images used in the app.

Instance Folder – stores the database of the app.

wsgi.py – python file which starts the app.

__init__.py – python file which has the initialization script of the components of the app.

models.py – python file which creates all the database tables using Flask-SQLAlchemy.

routes.py – python file which has all the routes and helper functions of the app.

requirements.txt – text file which stores the name of all the dependencies.

Presentation Video Link :-

https://drive.google.com/file/d/1cNhqDxGN-3u9-PNKV_onUJrTFukMoQ6f/view?usp=drive_link

