Author

Name: Ayush Kumar
Roll Number: 21f1002770
Student Email: 21f1002700@ds.study.iitm.ac.in

I love to solve challenging problems and discover a solution for it. Whether it's about writing a line of code or to give some visualization. As long as there's a problem to tackle or a challenge to puzzle over. It's a bound to something which I bound to love!

My Understanding About Project:-

This is a Music Project. So this project revolves around the creator and music lovers. We are asked to make this app to establish a good music application between both creators and music lovers. Which will eventually help both communities to fulfill their needs.

Technologies Used:

- ❖ **Flask**
- ❖ **Sqlite for Database**
- ❖ **Jinja**
- ❖ **Models**
- ❖ **Render Template, Redirect, Request**
- ❖ **HTML, CSS, JavaScript(Popup)**

These technologies give us the flexibility to work sequentially and smoothly. Which eventually helps to create a better environment for application production. These features help to quickly connect the ideas.

DB Schema Design:

Tables and Columns:-

- ➔ User:-
    - ◆ p_id: User I'd
    - ◆ name: User name
    - ◆ address: email address
    - ◆ contact: mobile number
    - ◆ password: Password of User

- ➔ Song:-
    - ◆ s_id: Song I'd
    - ◆ title: Song Title
    - ◆ singer: Singer Name
    - ◆ date: Release Date
    - ◆ lyrics: lyrics
    - ◆ duration: Song Duration
    - ◆ Genre : Genre of Song

◆ Uploader: Creator name

➔ Album:-
    ◆ p_id: Playlist I'd
    ◆ playlist_name: Playlist-Name
    ◆ sid: playlist-song
    ◆ user: playlist-creator

➔ Rating:-
    ◆ user_name: User who give rating
    ◆ sid: song-id
    ◆ rating: rating

➔ Creator:-
    ◆ pid: Creator Id
    ◆ name: Creator Name

The reason why I choose to write my Database Schema Design in this way is because it gives me clarity how the database is working along with the other tables. So It's make easier to me to play with databases.

Architecture and Features:

My project is organized in a total of 7 Files. Where mainly 5 files come into use.
Files are →

- database:- This file contain the database which is database.db
- Templates:- This file contains a total 21 HTML templates which are used further in application.
- App.py :- This python file is responsible for the controllers of the app. This contains the routes of each and every action performed in the app.
- Model.py:- This file contains the DB Schema. That is the Tables and Columns of Database.
- Requirements.txt:- This text file has the requirements needed for the project.

Feature Note:- Routes have been used in app.py which help to jump from one page to another.
Model has been used which is used to create the database table.
HTML & CSS is used to design pages for the app and give them style.

Video Link:

https://drive.google.com/file/d/1fnUu8lRqwZWpAig_u03G6sAtKasw86K_/view?usp=drive_link