

Project Report

APPDev1

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Problem Statement

Music streaming app, with different functionalities for admin, user and creator

Frameworks and tools used

- HTML
- Bootstrap
- Flask
- SQLAlchemy
- SQLite
- JavaScript
- Python









Approach

The project uses MVC architecture

Model

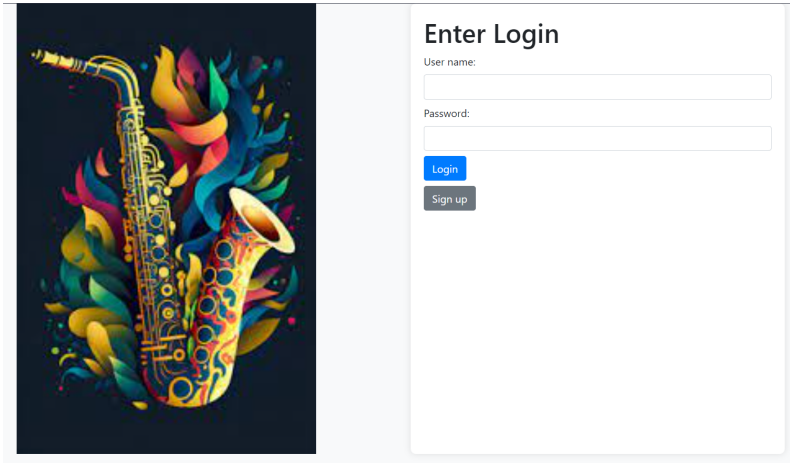
The database has the following tables

Tables (8)		
admin		CREATE TABLE "admin" ("admin_id" INTEGER NOT NULL, "admin_name" TEXT UNIQUE, "password" TEXT, PRIMARY KEY("a
admin_id	INTEGER	"admin_id" INTEGER NOT NULL
admin_name	TEXT	"admin_name" TEXT UNIQUE
password	TEXT	"password" TEXT
album		CREATE TABLE "album" ("album_id" INTEGER NOT NULL, "album_name" TEXT NOT NULL, "uploaded_by" INTEGER NOT NUL
album_id	INTEGER	"album_id" INTEGER NOT NULL
album_name	TEXT	"album_name" TEXT NOT NULL
uploaded_by	INTEGER	"uploaded_by" INTEGER NOT NULL
likes		CREATE TABLE "likes" ("song_id" INTEGER NOT NULL, "user_id" INTEGER NOT NULL, "up_down" INTEGER DEFAULT 0, FOR
song_id	INTEGER	"song_id" INTEGER NOT NULL
user_id	INTEGER	"user_id" INTEGER NOT NULL
up_down	INTEGER	"up_down" INTEGER DEFAULT 0
playlist		CREATE TABLE "playlist" ("playlist_id" INTEGER NOT NULL, "user_id" INTEGER NOT NULL, "playlist_name" TEXT NOT NULL, I
playlist_id	INTEGER	"playlist_id" INTEGER NOT NULL
user_id	INTEGER	"user_id" INTEGER NOT NULL
playlist_name	TEXT	"playlist_name" TEXT NOT NULL
playlist_data		CREATE TABLE "playlist_data" ("playlist_id" INTEGER NOT NULL, "song_id" INTEGER NOT NULL, FOREIGN KEY("playlist_id")
playlist_id	INTEGER	"playlist_id" INTEGER NOT NULL
song_id	INTEGER	"song_id" INTEGER NOT NULL
songs		CREATE TABLE "songs" ("song_id" INTEGER, "song_name" TEXT NOT NULL, "uploaded_by" INT, "song" BLOB, "albums" INTE
song_id	INTEGER	"song_id" INTEGER
song_name	TEXT	"song_name" TEXT NOT NULL
uploaded_by	INT	"uploaded_by" INT
song	BLOB	"song" BLOB
albums	INTEGER	"albums" INTEGER
lyrics	TEXT	"lyrics" TEXT
date	datetime	"date" datetime
upvote	integer	"upvote" integer
downvote	integer	"downvote" integer

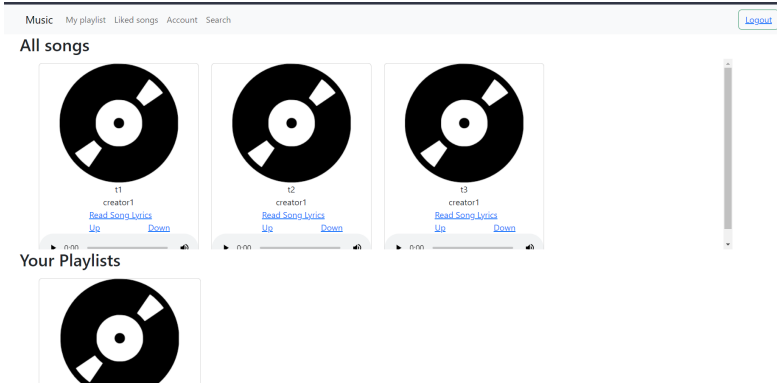
user			CREATE TABLE "user" ("user_id" INTEGER, "user_name" TEXT NOT NULL UNIQUE, "email" TEXT NOT NULL UNIQUE, "password" TEXT NOT NULL, "creator" INTEGER NOT NULL, "name" TEXT, "joined" datetime, "flag" integer
	user_id	INTEGER	"user_id" INTEGER
	user_name	TEXT	"user_name" TEXT NOT NULL UNIQUE
	email	TEXT	"email" TEXT NOT NULL UNIQUE
	password	TEXT	"password" TEXT NOT NULL
	creator	INTEGER	"creator" INTEGER NOT NULL
	name	TEXT	"name" TEXT
	joined	datetime	"joined" datetime
	flag	integer	"flag" integer

View

The view is rendered using Flask and HTML



Login page



User home page

Controllers

The controllers are defined by routes in which are stored in controllers.py

Video

[https://drive.google.com/drive/folders/1jyM6LokFCN8JW8I7gJmeyrXhOOW-O9bc?usp=drive link](https://drive.google.com/drive/folders/1jyM6LokFCN8JW8I7gJmeyrXhOOW-O9bc?usp=drive_link)