

Name: Gayathri Nair

Roll No.: 22f1001480

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APP DEV 1 PROJECT - MUSIC STREAMING APPLICATION

Models:

1. User:

Attributes: id, password, name, role, songs, playlists, albums, ratings, average rating, blacklist id

2. Playlist:

Attributes: id, name, user_id, songs

3. Rating:

Attributes: id, score, artist, user_id, song_id, album_id

4. Album:

Attributes: id, name, user_id, songs, ratings, avg_rating, flag_id

5. Genre:

Attributes: id, name, songs

6. Blacklist:

Attributes: id, name, users

7. Flag:

Attributes: id, name, songs, albums

8. Song:

Attributes: id, title, genre_name, date, lyrics, duration, creator, user_id, album_id, ratings, genre_id, avg_rating, flag_id

App Functionality:

1. **Register:** Register as a new user. Form with username and password fields.

2. **Admin login:** Form for admin login with username and password fields.

3. **User login:** Form for user login with username and password fields.

4. User dashboard:

a. Top 5 songs

i. Each song has the following features - title, artist, genre, date, duration, read lyrics, play song, rate song.

b. Top 5 albums

i. Each album with album name and its songs with above mentioned features.

- ii. Rate the album or its songs
- c. Links to separate pages with All songs and All albums.
- d. Register as a creator.
- e. Create a new playlist
 - i. Add, delete songs
- f. View all playlists
- g. Search for playlists

5. Creator dashboard:

- a. All functionalities of a general user.
- b. No. of songs, no. of albums and average rating of the creator
- c. Add, delete, edit and view songs
- d. Add, delete, edit and view albums

6. Admin dashboard:

- a. No. of general users, creators, songs, albums and genres
- b. App statistics with graphs of songs, albums and artists based on their average rating
- c. Top 5 songs and albums
- d. All songs with their general functionality
 - i. Flag or unflag songs or albums
 - ii. View flagged songs/ albums and remove them
- e. List of all users
 - i. Blacklist / Whitelist users
 - ii. View list of blacklisted users

7. Search page:

- a. Search songs based on title, rating or genre
- b. Search albums based on album name or rating

8. Log out:

- a. Back to the home page.