

ONLINE MUSIC LIBRARY

Database Description:

The database contains Nine collections. They are Admin, Gener, Band, Album, Songs, User, Playlist, Transaction, Payments. By using the above database collections the Admin creates the "Online Music Library". Where the Admin collection contains admin_name, Password this data will be stored in the Admin collection. Now the Admin gives the permission to register the Band, after registration the Admin verifies the Band details and gives the access to the Artist. Band collection contains the band_id, band_name, password, phone number, bio, status this data will be stored in the Band collection.

The Admin adds the Gener collection, Gener collection contains the Gener_name this data will be stored in the Gener collection, by using this collection users can select genre easily.

The User can register into the website with the user_name, email, phone_number this data will be stored in the User collection.

The Band adds the Album collection which contains the album_name, band_id, gener_id, poster, price this data will be stored in the Album collection, here band_id, gener_id are the reference keys.

Now the Band users add their Songs into the Songs collection, these songs collection contains the song_name, poster, duration, album_id, status, price this

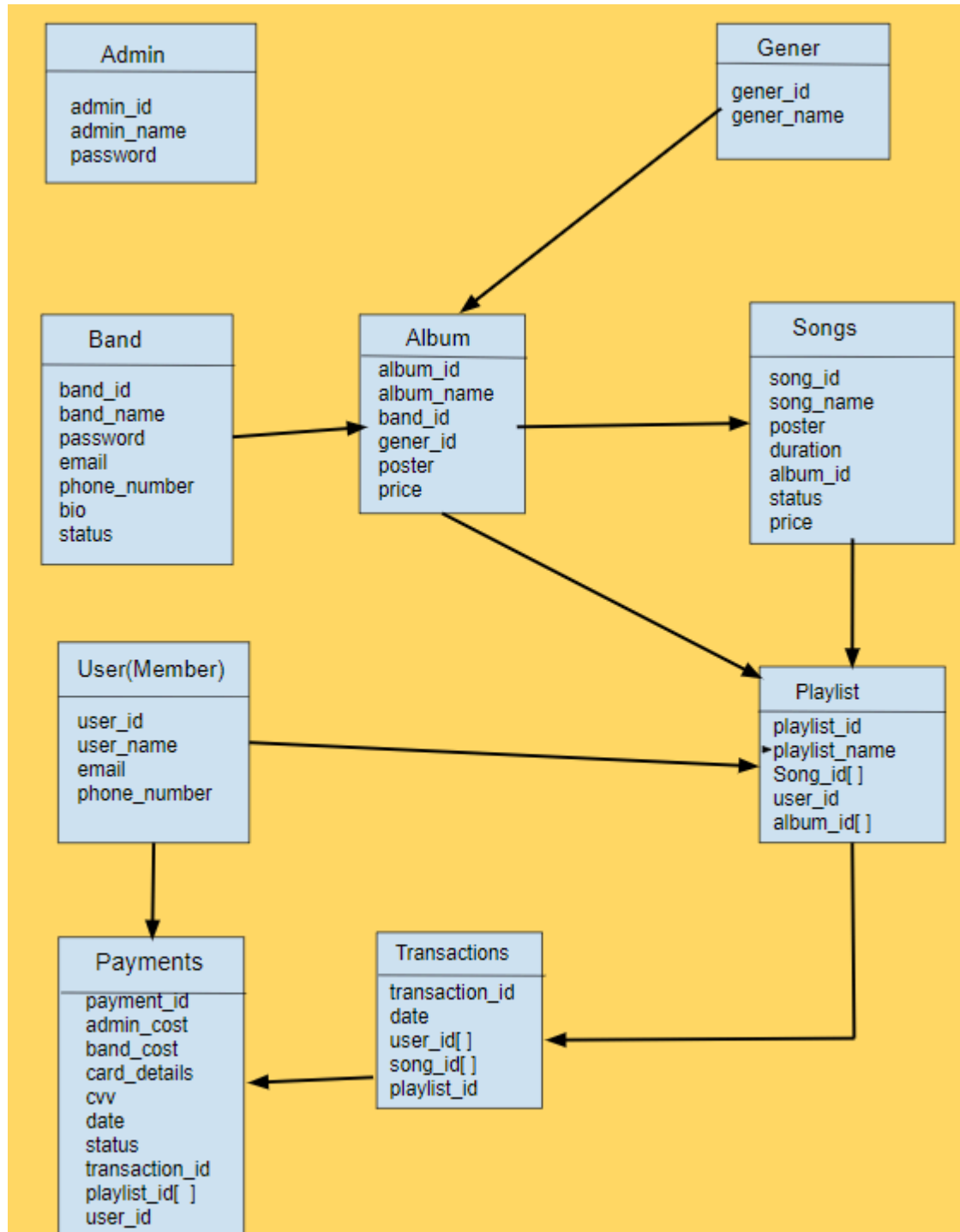
data will be stored in the Songs collection, by using this collection user can select their songs.

The playlist collection contains the playlist_name, user_id, song_id and album_id .Here the users can move their favourite songs/Album into the Playlist collection.

The Transaction collection contains the date, user_id[], Song_id[],playlist_id[] this data will be stored in the Transaction collection.Users can pay the money for playlist songs.

The Payments collection contains the admin_cost, band_cost, card details, cvv, date, status, transaction_id, playlist_id[] and user_id this data will be stored in the Payments collection, here transaction_id, playlist_id[] and user_id are the reference keys.

ER DIAGRAM



Sample snippets

Admin:-

```
_id: ObjectId('65ccfd0765e8a1412c28ab66')  
admin_name : "admin"  
password : "admin"
```

Gener:-

```
_id: ObjectId('65cd0d0f65e8a1412c28ab73')  
gener_name : "Folk"
```

Band:-

```
_id: ObjectId('660404bf047a6d19a827809b')  
band_name : "chaithanya"  
bio : "singer"  
email : "chaitu@gmail.com"  
password : "chaitu@6215"  
phone_number : "+1-424-231-6767"  
status : "Folk"
```

User:-

```
_id: ObjectId('65cd0f6d65e8a1412c28ab82')  
email : "EDLAAKHILREDDY123@gmail.com"  
phone_number : "+1-342-776-8756"  
user_name : "reddy"
```

Album:-

```
_id: ObjectId('65cd105465e8a1412c28ab84')
band_id: ObjectId('66040616047a6d19a82780a0')
price: "$15"
album_name: "Sanam Teri kasam"
gener_id: ObjectId('65cd0d0f65e8a1412c28ab73')
poster: "image.jpg"
```

Songs:-

```
_id: ObjectId('65cd139065e8a1412c28ab9e')
price: "$2"
album_id: ObjectId('65cd105465e8a1412c28ab84')
duration: "5"
poster: "image.jpg"
song_name: "Tera Chehra"
status: "Like"
```

Playlist:-

```
_id: ObjectId('65cd6ee12337f49555a2aad8')
▶ Songs_id: Array (1)
▶ album_id: Array (1)
playlist_name: "My songs"
user_id: ObjectId('65cd0f6d65e8a1412c28ab82')
```

Transaction:-

```
_id: ObjectId('660407f8047a6d19a82780b2')
date: "15th february 2024 "
playlist_id: ObjectId('65cd6ee12337f49555a2aad8')
▶ song_id: Array (1)
▶ user_id: Array (1)
```

Payments:-

```
_id: ObjectId('65cd71512337f49555a2aaf3')
admin_cost : "15%"
band_cost : "85%"
card_details : "9999876543210654"
cvv : "246"
date : "15-02-2024"
▶ playlist_id : Array (1)
status : "payment sucessfull"
transaction_id : ObjectId('660407f8047a6d19a82780b2')
user_id : ObjectId('65cd0f6d65e8a1412c28ab82')
```

DATABASE COLLECTION

Admin

Storage size: 20.48 kB

Documents: 1

Avg. document size: 64.00 B

Indexes: 1

Total index size: 20.48 kB

Album

Storage size: 20.48 kB

Documents: 1

Avg. document size: 147.00 B

Indexes: 1

Total index size: 20.48 kB

Band

Storage size: 4.10 kB

Documents: 1

Avg. document size: 22.00 B

Indexes: 1

Total index size: 4.10 kB

Gener

Storage size: 20.48 kB

Documents: 1

Avg. document size: 43.00 B

Indexes: 1

Total index size: 20.48 kB

Payments

Storage size: 20.48 kB

Documents: 1

Avg. document size: 188.00 B

Indexes: 1

Total index size: 20.48 kB

Playlist

Storage size: 20.48 kB

Documents: 1

Avg. document size: 72.00 B

Indexes: 1

Total index size: 20.48 kB

Songs

Storage size: 20.48 kB

Documents: 1

Avg. document size: 140.00 B

Indexes: 1

Total index size: 20.48 kB

Transaction

Storage size: 4.10 kB

Documents: 1

Avg. document size: 22.00 B

Indexes: 1

Total index size: 4.10 kB

User

Storage size: 20.48 kB

Documents: 1

Avg. document size: 116.00 B

Indexes: 1

Total index size: 20.48 kB