

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE,PILANI

Hyderabad Campus



Database System

MUSIFY

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MUSIFY

It is a music player app where users can search for songs using song names/singer names. It allows users to add songs and create their own playlists. They can also follow other users to see their playlists. People can also like some songs and add them to their favorite playlist.

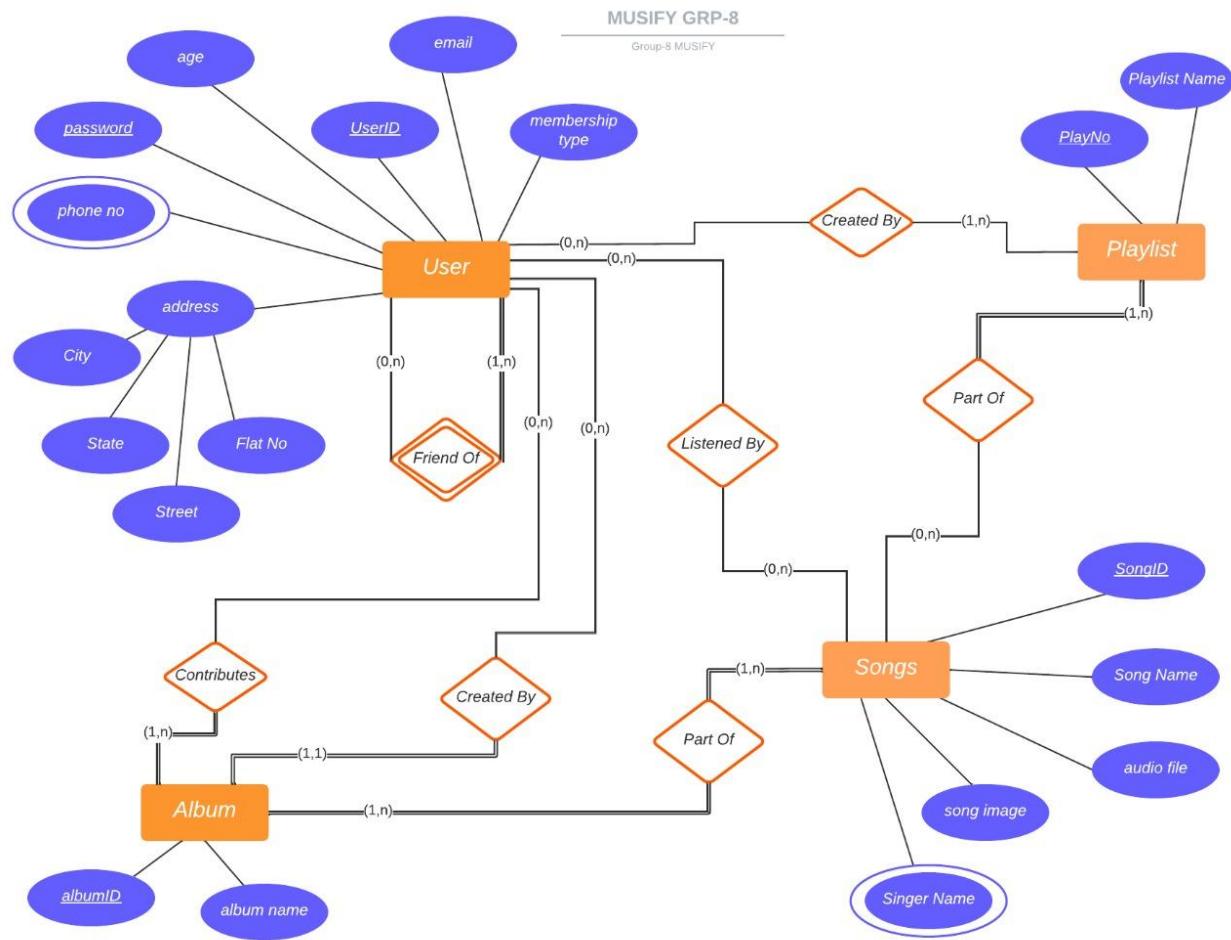
Requirements:-

- We will store the userid, username, email address, password, phone number and age of the user. We will also track whether the user is a regular user or a premium user, a creator or not a creator.
- The songs have their own song id, song name, singer name, song image and audio file. Every song is a part of at least one album but can be present in more than one album.
- An album will have at least one song. These albums have a creator who manages the songs in their album. Each album has an album id, album name, creator, and contributor/contributors involved in making the album's songs.
- A premium user can like a song and add it to any of its playlists. A premium user can add other premium users to its friend list and create a playlist together.
- Every playlist has a playlist number, playlist name and user id. And each playlist has songs chosen by the premium user or users.

Gui and Application constraints :

- Password entered by the user should contain alphabets, numbers (0 to 9) and special characters.
- There are two types of users; premium and regular. Further users can either be a creator or not a creator. Premium/creator users have a paid subscription in this app.
- Premium users can add other premium users as their friends; they can add a song to their playlist. They can have multiple playlists. Friends can share a common playlist among themselves.
- Creators can form their own album and upload their songs which can be viewed by all.

ER Diagram:



Relational Schema:

APPUSER(UserID, Password, User Name, Age, Email, Membership Type, Flat No, Street, City, State)
User_PhoneNo(UserID, Phone Number)
Playlist(Playno, PlaylistName)
Album(AlbumID, Album Name, UserID)
Song_detail(SongID, SongName, SongImage, AudioFile)
Songs_Singer(SongID, SingerName)
Contributes(AlbumID, UserID)
Friend(UserID, FriendID)

Listen(UserID, SongID)

CreatedBy(PlayNo, UserID)

PartPlaylist(SongID, AlbumID)

PartPlaylist(SongID, Playno)

Functional Dependencies:

UserID -> Password, Age, Email, Membership Type, Flat No, Street, City, State, AlbumID, Phone Number, FriendID, SongID, PlayNo

Password -> UserID, Age, Email, Membership Type, Flat No, Street, City, State

Playno -> PlaylistName, UserID, SongID

AlbumID -> Album Name, UserID, SongID

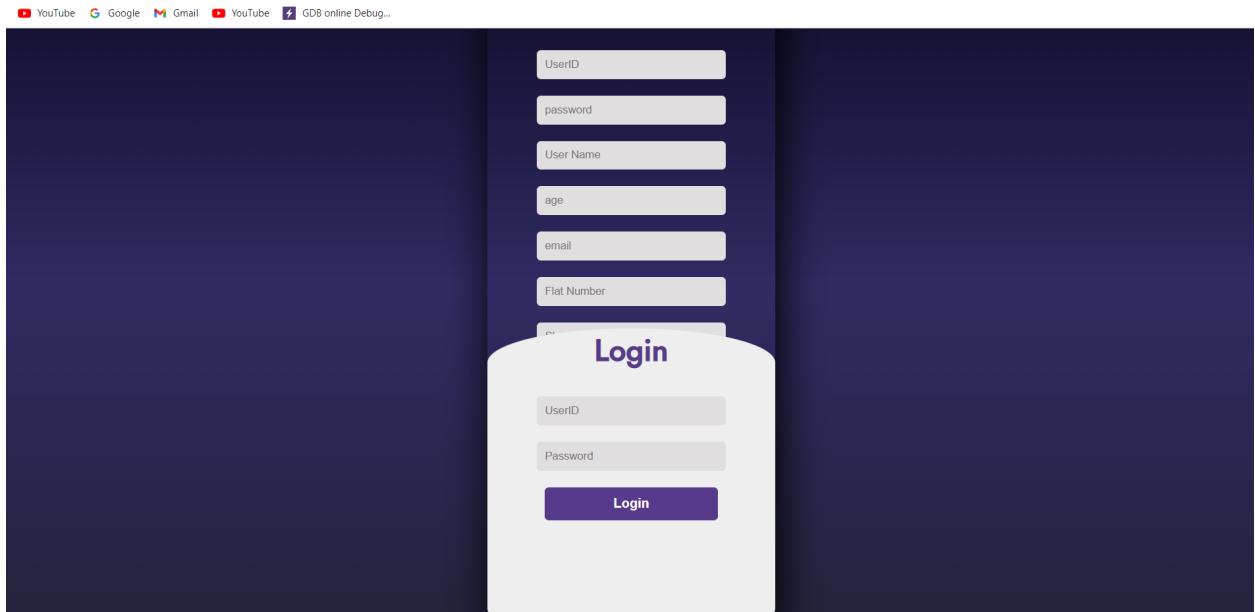
SongID -> SongID, SongName, SongImage, AudioFile, SingerName, AlbumID, Playno

Screenshots:

Webpage:

Login Page:

The screenshot shows a web browser window with a dark blue header bar containing various icons and links. Below the header is a 'Sign up' form with a white background and a dark blue border. The form consists of ten input fields labeled 'UserID', 'password', 'User Name', 'age', 'email', 'Flat Number', 'Street', 'City', and 'phonenumer'. At the bottom of the form, there are two buttons: 'regular' and 'premium'.



Playlists as viewed by User:

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YouTube Google Gmail YouTube GDB online Debug...

MUSIFY

List of Playlists

Playlist ID	Playlist Name
1001	Number 1's: Diana Ro... Diana Ross
1007	Bill Withers' Greatest... Bill Withers
1015	Uploaded Mobile
1036	SleepTime
1087	Favorites

The Best of Sun 1911 Cold: Barry White Siddhartha's Monitor Life of the 70's 20th Century Mast

King Harvest

happin... forever

DANCING IN THE MOONLIGHT

Blowin' Your Mind!

Van Morrison

Number 1's: Diana Ro... Diana Ross

Bill Withers' Greatest... Bill Withers

Uploaded Mobile

SleepTime

Favorites

King Harvest

Dancing in the Moonlight

Happiness Forever Various Artists

20th Century Mast

Album ID	Album Name	Artist
1036	SleepTime	King Harvest
1087	Favorites	
1011	SiddharthsFav	
1111	Party	
Blowin' Your Mind!		Van Morrison
1102	Number 1's: Diana Ro...	Diana Ross
	VarunsFav	Bill Withers
1055	Morning	BARRY WHITE
1028	Friends	
The Best of Su...	List of Albums	70's
E11		20th Century Mast...

Albums as viewed by User:

Album ID	Album Name	Artist
501	Arijit Singh	
505	Arko	
567	Number 1's: Diana Ro...	Diana Ross
	Bareilly Ki Barfi	Bill Withers
581	LoveAajKal	
546	MSD	
502	ArmaanMalik	
520	KK	
The Best of Su...	List of Albums	70's
E11		20th Century Mast...

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Song ID	Song Name	Song Image	Audio File
1	Bairaagi		▶ 0:00 / 4:12

Blowin' Your Mind! Van Morrison

Number 1's: Diana Ross Diana Ross

Pritam Bill Withers' Greatest... Bill Withers

Dancing in the Moonlight King Harvest

Happiness Forever Various Artists

The Rest of Swami Barry White: Gold Barry White: Gold 20th CENTURY MASTERS: THE MILLENNIUM COLLECTION Songs 70's 20th CENTURY MASTERS: THE MILLENNIUM COLLECTION OHIO PI

Songs as viewed by User:

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Song ID	Song Name	Song Image	Audio File
1	Bairaagi		▶ 0:00 / 4:12
30	Jaan Hai Meri		▶ 0:00 / 4:51
92	RABBA		▶ 0:00 / 4:01
2	Khariyat		▶ 0:00 / 4:51
4	Aur Tanha		▶ 0:00 / 4:55
107	Saathi Rey		▶ 0:00 / 4:32

Blowin' Your Mind! Van Morrison

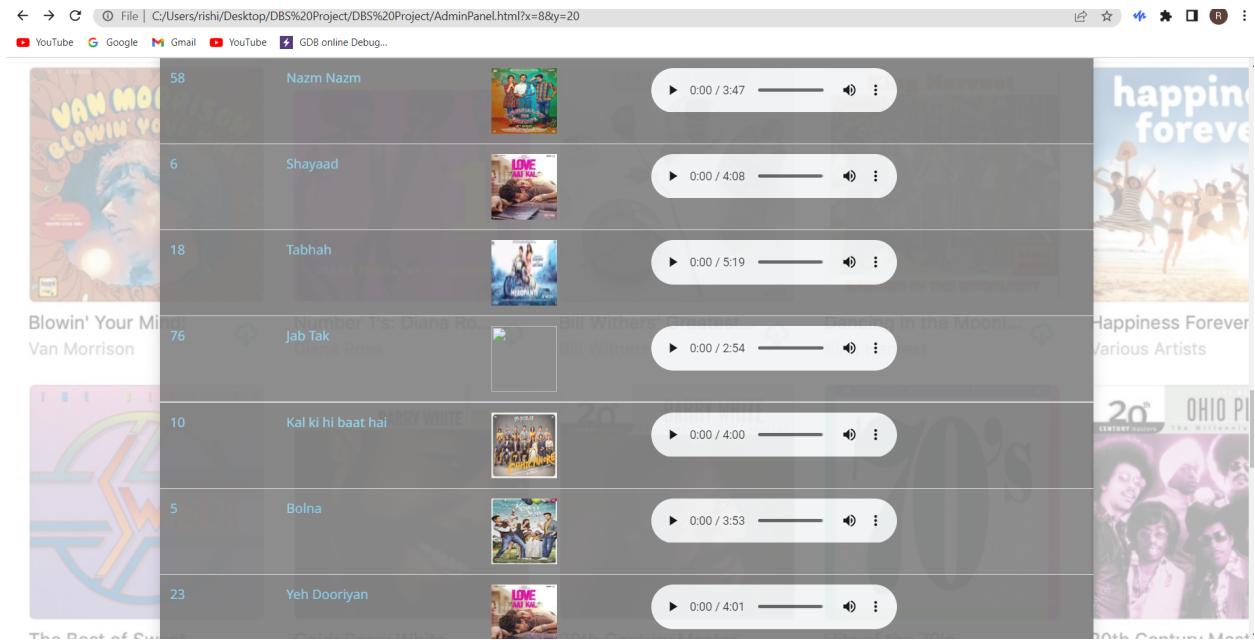
Number 1's: Diana Ross Diana Ross

Pritam Bill Withers' Greatest... Bill Withers

Dancing in the Moonlight King Harvest

Happiness Forever Various Artists

The Rest of Swami Barry White: Gold Barry White: Gold 20th CENTURY MASTERS: THE MILLENNIUM COLLECTION Songs 70's 20th CENTURY MASTERS: THE MILLENNIUM COLLECTION OHIO PI



Option to add new Playlist:

Create Playlist

Playlist Name: Yeh Dooriyan

Song Name: Yeh Dooriyan

Add Playlist

Create Album

Album Name: Yeh Dooriyan

Option to add new Album:

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Create Album

Album Name:

Song Name:

Add Album

King Harvest
Dancing in the Moonlight

happin forever
Various Artists

Blowin' Your Mind!
Van Morrison

Number 1's; Diana Ro...
Diana Ross

Bill Withers' Greatest...
Bill Withers

Dancing In the Moonl...
King Harvest

BARRY WHITE GOLD
THE SWEET

Add Song

Song ID:

Song Name:

Singer:

BARRY WHITE
20th Century Masterpiece

20th Century Masterpiece
Ohio Players

Option to add new Song:

← → C File | C:/Users/rishi/Desktop/DBS%20Project/DBS%20Project/AdminPanel.html?x=8&y=20

YouTube Google Gmail YouTube GDB online Debug...

Blowin' Your Mind!
Van Morrison

Add Song

Song ID:

Song Name:

Singer:

Song Image: No file chosen

Audio File: No file chosen

Add Song

happin forever
Various Artists

Happiness Forever
Various Artists

Blowin' Your Mind!
Van Morrison

Number 1's; Diana Ro...
Diana Ross

Bill Withers' Greatest...
Bill Withers

Dancing In the Moonl...
King Harvest

BARRY WHITE GOLD
THE SWEET

BARRY WHITE
20th Century Masterpiece

20th Century Masterpiece
Ohio Players

Screenshots:

Database Tables:

User Table:

The screenshot shows the MySQL Workbench interface with the User table selected. The table has columns: USERID, PASSWORD, USERNAME, AGE, EMAIL, MEMBERSHIP, FLAT, STREET, CITY, and STATE. The data includes various user entries from different cities and states across India.

USERID	PASSWORD	USERNAME	AGE	EMAIL	MEMBERSHIP	FLAT	STREET	CITY	STATE
1	123*4	Rishiraj	19	rishi@gmail.com	Normal	D 21 Lodha	123 Street	Mumbai	Maharashtra
2	aA*19	Anshul	20	a19@gmail.com	Premium	M25 Rose Valley	23 Street	Hyderabad	Telengana
3	1@3\$	Valbhav	21	valbhav7@gmail.com	contributor	B01 Akashdeep Apts	11 Street	Banglore	Karnataka
4	45663@	Tushar	22	tushar2020@gmail.com	contributor	A102 Hari Om Tower	22 Street	Hyderabad	Telengana
5	4455	Abhinav	19	123abh@gmail.com	premium	H34 Dudley House	33 Street	Mumbai	Maharashtra
6	4@52	Darshan	20	dar@gmail.com	normal	A23 Rukmini Tower	44 Street	Mumbai	Maharashtra
7	tT*19	Siddhardt	21	blaze2@gmail.com	premium	C304 Elite Palace	55 Street	Banglore	Karnataka
8	aA@19	Vaishnav	20	vaishnav@gmail.com	contributor	F111 Rudraksh	66 Street	Hyderabad	Telengana
9	rR123	Varun	19	manu@gmail.com	normal	K83 Arya Palace	77 Street	Hyderabad	Telengana
10	qqa@11	Shashank	20	shanks@gmail.com	contributor	D311 Sky Palace	88 Street	Mumbai	Maharashtra

Album Table:

The screenshot shows the MySQL Workbench interface with the Album table selected. The table has columns: ALBUMID, ALBUMNAME, and USERID. The data lists various albums uploaded by different users.

ALBUMID	ALBUMNAME	USERID
501	Arijit Singh	2
502	ArmaanMalik	5
505	Arko	2
507	Pritam	7
509	RadheShyam	7
511	Chichore	5
520	KK	5
539	KapoorAndSons	5
546	MSD	2
567	Bareley Ki Barfi	2
581	LoveAajKal	2

Songs Table:

The screenshot shows the MySQL Workbench interface with the Songs table selected. The table has columns: SONGID, SONGNAME, SONGIMAGE, and AUDIofile. The data lists various songs with their names and file paths.

SONGID	SONGNAME	SONGIMAGE	AUDIofile
1	Bairagi	BL08	BL08
2	Khanyat	BL08	BL08
4	Aur Tanha	BL08	BL08
5	Bolna	BL08	BL08
6	Shayaad	BL08	BL08
10	Kal ki baat hai	BL08	BL08
18	Tabihah	BL08	BL08
23	Yeh Dooriyan	BL08	BL08
30	Jaan Hai Meri	BL08	BL08
58	Nazm Nazm	BL08	BL08
76	Jab Tak	BL08	BL08

151 • select * from songs;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

SONGID	SONGNAME	SONGIMAGE	AUDIOFILE
6	Shayeed	blob	blob
10	Kal ki hi baat hai	blob	blob
18	Tabbah	blob	blob
23	Yeh Dooriyan	blob	blob
30	Jaan Hai Meri	blob	blob
58	Nazm Nazm	blob	blob
76	Jab Tak	blob	blob
92	RABBA	blob	blob
107	Saathi Rey	blob	blob
*	NULL	NULL	NULL

Info: songs 3 x Output: | Apply | Revert | Cor

Playlist Table:

153 • select * from playlist;

154 |

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

PLAYNO	PLAYLISTNAME
1001	Downloads
1007	Uploaded
1011	SiddharthsFav
1015	Mobile
1028	Friends
1036	SleepTime
1055	Morning
1087	Favourites
1102	VarunsFav
1111	Party
*	NULL

Info: playlist4 x Output: | Apply | Revert | Cor

Contributes Table:

154 • select * from contributes;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

ALBUMID	USERID
520	3
546	3
581	3
502	4
507	4
505	8
567	8
509	10
511	10
539	10
*	NULL

Info: contributes 5 x Output: | Apply | Revert | Cor

Friend Table:

153 • select * from friend;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

USERID	FRIEND
2	5
2	7
5	2
5	7
7	2
7	5
*	NULL

Info: friend 6 x Output: | Apply | Revert | Cor

Friend Table:

The screenshot shows the MySQL Workbench interface with a query editor containing the SQL command: `select * from listen;`. The results are displayed in a grid titled "Result Grid". The data consists of two columns: USERID and SONGID. The rows are as follows:

USERID	SONGID
1	1
2	2
2	92
3	10
4	58
5	76
5	107
6	30
7	4
8	6
8	18
9	5
10	23
NULL	NULL

Listen Table:

The screenshot shows the MySQL Workbench interface with a query editor containing the SQL command: `select * from listen;`. The results are displayed in a grid titled "Result Grid". The data consists of two columns: USERID and SONGID. The rows are as follows:

USERID	SONGID
4	58
5	76
5	107
6	30
7	4
8	6
8	18
9	5
10	23
NULL	NULL

CreatedBy Table:

The screenshot shows the MySQL Workbench interface with a query editor containing the SQL command: `select * from createdby;`. The results are displayed in a grid titled "Result Grid". The data consists of two columns: PLAYNO and USERID. The rows are as follows:

PLAYNO	USERID
1001	1
1007	3
1011	2
1015	5
1028	4
1028	9
1036	7
1055	4
1055	6
1087	8
1102	6

PartPlaylist Table:

The screenshot shows the MySQL Workbench interface with a query editor containing the SQL command: `select * from partplaylist;`. The results are displayed in a grid titled "Result Grid". The data consists of two columns: SONGID and PLAYNO. The rows are as follows:

SONGID	PLAYNO
1	1001
2	1001
23	1001
2	1007
10	1007
58	1007
5	1011
6	1011
18	1011
23	1015
58	1015

```
158 • select * from partplaylist;
```

SONGID	PLAYNO
6	1036
10	1036
4	1055
6	1087
10	1087
92	1087
18	1102
30	1102
76	1111

PartOf Table:

```
159 • select * from partof;
```

SONGID	ALBUMID
1	501
1	567
2	501
2	511
4	520
4	581
5	501
5	539
6	501
6	581
10	511


```
159 • select * from partof;
```

SONGID	ALBUMID
18	505
23	507
23	581
30	502
30	509
58	505
58	567
76	502
76	546
*	HULL
*	HULL