

Music Mania Project Statistics

(I have worked alone on this project. So it took some time in figuring out things on my own)

*There are total of **7 Tables** along with **3 API's** used in this project.*

The tables are as follows:

Followers Table

Field Name	
Follower_id	Primary Key Combining both fields (Follower_id REFERENCES User(User_id)) (Following_id REFERENCES User(User_id))
Following_id	

User Table

Field Name	
User_id	Primary Key
User_name	
Password	

User Playlist Table

Field Name	
Playlist_id	Primary Key Combining both fields (User_id REFERENCES User(User_id))
User_id	
Playlist_name	

Playlist Table

Field Name	
Playlist_id	Primary Key Combining all three fields (User_id REFERENCES User(User_id)) (Song_id REFERENCES Song(Song_id)) (Playlist_id REFERENCES User Playlist(Playlist_id))
User_id	
Song_id	
Song_name	
Artist_name	

Song Table

Field Name	
User_id	Primary Key Combining both fields (User_id REFERENCES User(User_id))
Song_id	
Song_name	
Artist_name	
Mbid_name	

Artist Table

Field Name	
User_id	Primary Key Combining both fields (User_id REFERENCES User(User_id))
Artist_id	
Artist_name	
Mbid_name	

Album Table

Field Name	
User_id	Primary Key Combining both fields (User_id REFERENCES User(User_id))
Album_id	
Album_name	
Artist_name	
Mbid_name	

I have added the following CRUD operations:

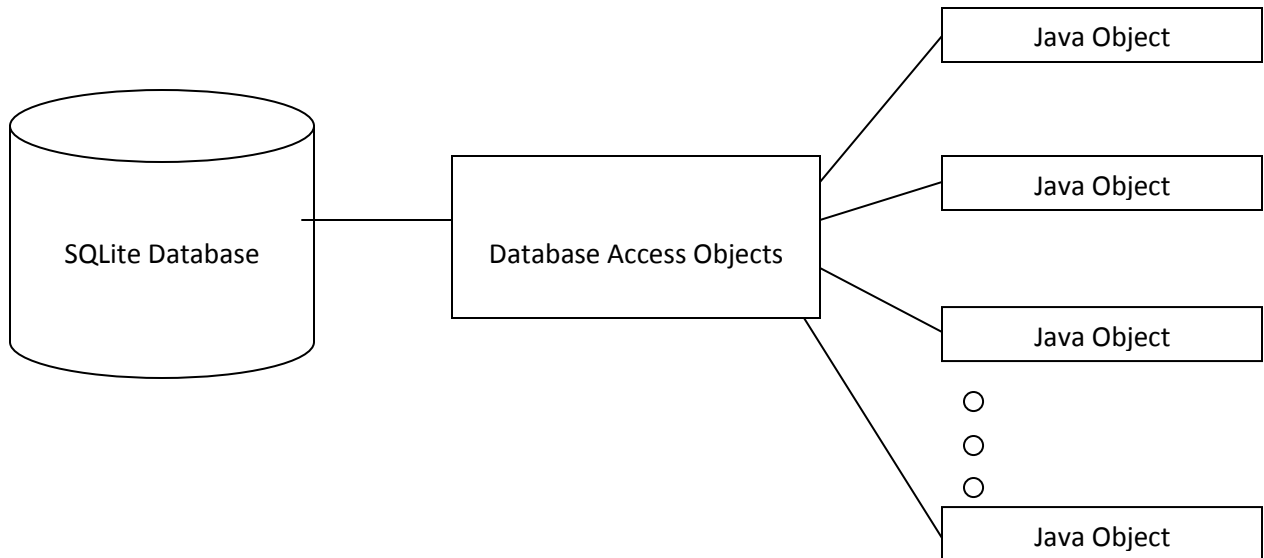
- Adding a new playlist
- Deleting a playlist
- Adding a song to playlist
- Deleting a Song from the playlist
- Fetching all Songs from the playlist
- Following a particular user
- Un-following a particular user (removing from follower list)
- Adding song/artist/album to recommend list
- Removing song/artist/album from recommend list
- Updating playlist name.
- Fetching all the other users
- Fetching all the playlist of other users.

I have all my Android Layout related Classes at the following repository locations

- Total there are 20 java files for the layout related activities.
(MusicMania/src/com/example/musicmania/)
- There are same numbers of activity layouts for the different screens of the app.
(MusicMania / MusicMania / res / layout /)
- Also I have all my 5 database object classes in the following package:
(MusicMania / MusicMania / src / com / example / musicmania / databaseobjects /)
- I have all the 8 database access objects classes in the following package:
(MusicMania / MusicMania / src / com / example / musicmania / databasehelpers /)

So total there are 33 important classes and 20 other layout screens.

Data Access from the SQLite Database in Android is via Content Providers as they act as a bridge between the data in the database and the user code. Android ships with SQLite version 3.4.0.



API Used

- **Last Fm API**

(<http://www.last.fm/api/intro>)

I have used the Last.Fm API to get the information about the Music searches and also for music recommendation. It has tons of methods to access various dimensions of music. This is the major API I have used to get all my data.

- **YouTube Data API (v3)**

(<https://developers.google.com/youtube/v3/>)

I have used the YouTube Data API(v3) to get the YouTube music video based on the searched music query.

This API is used to search for YouTube video related to my search content.

- **YouTube Android Player API**

(<https://developers.google.com/youtube/android/player/>)

I needed to use the YouTube Android Player API to integrate the YouTube video in my android application.

This API is used to display the YouTube video on my phone screen.