

Project Specification:

The objective is to build a playlist database known as “PlaylistDB” composed of different music albums that will work as a song information system. The application will store all kinds of information related to the albums, including how many songs are present in each album, what is the duration of each song, which instruments were used in the songs. The database will store data regarding the people who worked on the albums including singers, composers, lyricists, guitarists, drummers, specific bands who contributed to the albums if any.

PlayList database will store the released date of the album, the signers involved, the music genre it belongs to, such as rock music, jazz, Electronic Dance music, country music, etc. This stored information will help to track songs by their genre, singers, and more.

Being an avid song collector, I always like to have all my music albums organized in a way that I can easily access old and new songs, thus the information about the released date will be useful in such situations. Furthermore, the Playlist database should have the price tag stored, this will help people to buy them if they like it either online or a physical copy from music stores. Other information like how many awards the album has received and what rating it holds will assist in choosing the top ten tasteful albums. Some information about the artists of the albums like their name, age, and how many awards they received will educate the listeners about the people involved in making that album and how experienced are they in the field of music. This will encourage anybody to listen to the songs to buy more albums of their favorite singers, composers, etc if any.

I intend to share my application with friends and family so that they can have a good experience while listening to music. Following this, I would like to expand my Playlist database for better user experience using the feedback from my friends and family. For example, The database might also store different language albums that will showcase different cultures across the globe. This way this application will cater to a large section of the audience encouraging people with different native languages to experience other cultures other than their own through music.

Once I built this movie database, I would like to be able to retrieve many forms of information from the database. This would include answers to some examples questions such as:

- Which songs have the highest playtime?
- Which genres of music has the highest rating?
- Which company owns more than 2 albums?
- A list of albums that are released in a particular year, month, or date?
- Find the song names that have more than 2 people working on it?
- What is the brand name of a particular album?
- List all the albums with a price above 50?
- Which albums have the number of songs greater than 2?
- What is the duration of a certain song?
- Which albums received the most number of awards?