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Album Database (ADb):

Application Domain: Music

Application Description:

The application will be used as a music library to store and display information about music albums. The application will feature displays of the top 10 songs (determined by number of listens). The application will also feature a display of the newest album releases. Aside from these main displays, various search features will be available to allow users to search for albums by name, date, genre, etc. Additionally, users can add albums to the application to assist in populating the application's database.

Users would want to use this application to find music that they like listening to. Additionally, the application would act as a hub for distributing information about new albums as they are released. Individual listeners might distribute this information to share what they like with others while production companies use the application to help promote new releases.

Database Description:

This database will store information about musical albums. Information included in this database will be: the names of the albums, the names of album songs, the artists who created the albums, the publishers of the albums, the genres of the musical albums, the languages of the musical albums, whether the albums are explicit, and the names of musical videos for corresponding tracks within the albums.

Database Requirements:

- Each Album has a name, date of release and genre.
- Each Album will have a Publisher.
- Each Album will have zero or more languages.
- Each Album will have one or more Artists.
- Each Album will have one or more Songs.
- Songs will have a name, release date and parental advisory.
- Songs have a number of listens attribute.
- Each Song will have zero or more corresponding musical videos.
- Songs will have zero or more Featured Artists.
- Artists will have a name, date of birth, and role.
- Featured Artists will have the same attributes as Artists.

- Publishers will have a name and address.
- Publishers can publish 1 or more Albums.

ER Diagram:

