

Team number: 20

Member's Names:

Khoa Pham

Johnny Phenglavong

Yu Xiao(Tom) Zheng

Project Design

Explanation

Entities:

1. User: holders that listen to music (everyone can have an account).
2. Song: Media that users can listen to.
3. Artist: Content creators for our music platform.
4. Album: A collection of songs from artists.
5. Playlist: User selected collection of music.
6. Register: user will have to register for an account so that they can perform creating a playlist

Attributes:

1. User: Username, Age, Country, ID, and Email.
2. Song: ID, Title and Duration.
3. Artist: Name, Country, and ID.
4. Album: ID, Title and Year.
5. Playlist: ID, and Name.
6. Register: ID, user, password, email, and matchPwd

Relationships:

1. Plays: The user with a user account can play music in the playlist
2. Make: The user with a user account can also make one or more new playlist
3. Contains: The playlist will contain a number of songs, which can be none
4. Include: Song is included in a specific album
5. Create: An artist will create an album
6. Will: a user will register for an account to get some advance ability like making a playlist

The attributes of Relationship:

1. Song_id: each song in the album has a specific id
2. Album_id: an album created by the artist will be assigned a specific id

3. Artist_name: the album will also have the name of the artist
4. Star (1-5): Each user can rate the rating of a song from 1-5 star (5 is the highest rating)

Dependency:

1. A user with an account can may one playlist at a time
2. A user with an account can make 0 to many playlists
3. One Playlist can contain many songs and a song can be included in many playlists
4. A song can only be in one album but an album can have many songs
5. An album can only be created by one artist but an artist can create many albums

