UNQfy

- artistas: ArrayList<Artista>
- playlists: ArrayList<Playlist>

+ new()
+ addArtist(String): Artist
+ addAlbum(String, String): Album
+ addTrack(String, String): Track
+ addPlaylist(Playlist): void
+ existsArtist(String): Boolean
+ deleteArtist(Artist): void
+ deleteAlbum(Artist, Album): void
+ deleteTrack(Album, Track): void
+ deletePlaylist(Playlist): void
+ createPlaylist(String, Array<String>, Number): Playlist
+ getPlaylistById(String): Playlist
+ getArtistById(String): Artist
+ getAlbumById(String): Album
+ getTrackById(String): Track
+ getTracksMatchingGenres(Array<String>): Array<Track>
+ existPlaylist(String): Boolean
+ searchByName(String): Object
+ searchByArtist(Artist): Array<Track>
+ searchByGenre(String): Array<Track>
+ contentArtist(Artist): void
+ contentAlbum(Album): void
+ contentTrack(Track): void
+ contentPlaylist(Playlist): void
+ play(Track): void
+ topMostListened(Artist): Array<Track>

User

- id: Number
- name: String
- listenedTracks: Array<Track>

+ new(String)
+ listenToA(Track): void
+ listenedTracks(): Array<Track>
+ withoutRepeats(): Array<Track>
+ hasTrack(array, Track): Boolean
+ amountListened(Track): Number

Artist

- id: String
- name: String
- country: String
- genre: String
- albumes: Array<Album>

+ new(String, String, String)
+ content(): void
+ existAlbum(String): Boolean
+ hasAlbum(String): Boolean
+ addAlbum(Album): void
+ deleteAlbum(Album): void

Generate

- idArtist: Number
- idAlbum: Number
- idTrack: Number
- idPlaylist: Number

+ new()
+ generateIdArtist(): Number
+ generateIdAlbum(): Number
+ generateIdTrack(): Number
+ generateIdPlaylist(): Number

Album

- id: String
- name: String
- year: Number
- genre: String
- author: Artist
- duration: Number
- tracks: Array<Track>

+ new(String, Number, String, Artist)
+ content(): void
+ sumDuration(Number): void
+ subtractDuration(Number): void
+ existsTrack(String): Boolean
+ addTrack(Track): void
+ deleteTrack(Track): void

Playlist

- id: String
- name: String
- duration: Number
- genres: Array<String>
- tracks: Array<Track>

+ new(String, Array<String>)
+ content(): void
+ hasTrack(Track): Boolean
+ addTrack(Track): void
+ deleteTrack(Track): void
+ sumDuration(Number): void
+ subtractDuration(Number): void

Track

- id: String
- name: String
- duration: Number
- genres: Array<String>
- album: Album
- author: Artist
- amountListened: Number

+ new(String, Number,Array<String>, Album, Artist)
+ content(): void
+ hasGenres(Array<String>): Boolean
+ sumAmount(): void