

Song
-title : String -artist : String -rating : Rating -favorite : boolean
+getTitle() : String +getArtist() : String +getRating() : Rating +getFavorite() : boolean +setRating() : void +setFavorite(rating : Rating) : void +compareTo(other : Song) : boolean

Album
-title : String -artist : String -genre : String -year : int -songs : ArrayList<Song>
+getTitle() : String +getArtist() : String +getGenre() : String +getYear() : int +getSongs() : ArrayList<Song> +compareTo(other : Album) : boolean

Playlist
-name : String -songs : ArrayList<Song>
+getName() : String +getSongs() : ArrayList<Song> +addSong(song : Song) : void +removeSong(song : Song) : void

MusicStore
-albums: Map<String, Album>
+loadAlbums(albumsFilePath : String) : void -loadAlbum(albumsFilePath : String) : Album +songByTitle(title : String) : ArrayList<String> +songByArtist(artist : String) : ArrayList<String> -songToStringHelper(resultS : ArrayList<Song>, resultA : ArrayList<Album>) : ArrayList <String> +albumByTitle(title : String) : ArrayList<String> +albumByArtist(artist : String) : ArrayList<String> -albumToStringHelper(resultA : ArrayList<Album>) : ArrayList <String> +getAlbums() : ArrayList<Album>

LibraryModel
-music : MusicStore -playlists : ArrayList<Playlist> -songs : ArrayList<Song> -albums : ArrayList<Album>
+songByTitle(title : String) : ArrayList<String> +songByArtist(artist : String) : ArrayList<String> -songToStringHelper(resultS : ArrayList<Song>, resultA : ArrayList<Album>) : ArrayList <String> +albumByTitle(title : String) : ArrayList<String> +albumByArtist(artist : String) : ArrayList<String> -albumToStringHelper(resultA : ArrayList<Album>) : ArrayList <String> +playlistByTitle(title : String) : ArrayList<String> +addSong(title : String, artist : String) : boolean +addAlbum(title : String, artist : String) : boolean +createPlaylist(title : String) : void +addSongToPlaylist(songTitle : String, playTitle : String, artist : String) : boolean[] +removeSongFromPlaylist(songTitle : String, playTitle : String, artist : String) : boolean[] +favSong(title : String, artist : String) : boolean +rateSong(title : String, artist : String, rating : Rating) : boolean +getSongs() : ArrayList<Song> +getArtists() : Set<String> +getAlbums() : ArrayList<Album> +getPlaylists() : ArrayList<Playlist> +getFavs() : ArrayList<Song>