LibraryView

- model: LibraryModelscanner: Scanner
- + LibraryView(model: LibraryModel)
- + displayMainMenu(): void
- + promptForCommand(): void
- + getUserInput(): String
- + displaySearchResults(results: Object): void
- handleStoreSearch(): void
- handleSongSearchByTitle(): void
- handleSongSearchBvArtist(): void
- handleAlbumSearchByTitle(): void
- handleAlbumSearchByArtist(): void
- handleAddSong(): void
- handleAddAlbum(): voidhandleLibraryMenu(): void
- handleLibrarySearch(): void
- handleLibrarySongByTitle(): void
- handleLibrarySongByArtist(): void
- handleLibraryAlbumByTitle(): void
- handleLibrarvAlbumBvArtist(): void
- handleRemoveSong(): void
- handleRemoveAlbum(): void
- displayLibrarySongs(): void
- displayFavorites(): void
- displayLibraryAlbums(): void
- displayLibraryArtists(): void
- handlePlaylistMenu(): void
- createPlaylist(): void
- addSongToPlaylist(): void
- removeSongFromPlaylist(): void
- displayPlaylists(): void
- handleRatingMenu(): void
- handleMarkAsFavorite(): void
- handleSongRating(): void
- getRatingStars(rating: int): String
- printSongWithRating(song: Song): void

LibraryModel songLibrary: Set<Song> - albumLibrary: Set<Album> - playlists: List<Playlist> - musicStore: MusicStore + LibraryModel(musicStore: MusicStore) + getMusicStore(): MusicStore + addSong(song: Song): void + removeSong(song: Song): void + addAlbum(album: Album): void + removeAlbum(album: Album): void + getSongLibrary(): Set<Song> + getAlbumLibrary(): Set<Album> + searchSongByTitle(title: String): List<Song> + searchSongByArtist(artist: String): List<Song> + searchAlbumByTitle(title: String): Album + searchAlbumBvArtist(artist: String): List<Album> + searchSongByArtistAndTitle(artist: String, title: String): Song + searchStoreSongByTitle(title: String): List<Song> + searchStoreSongByArtist(artist: String): List<Song> + searchStoreAlbumBvTitle(title: String): Album

+ searchStoreAlbumByArtist(artist: String): List<Album>

+ createPlaylist(name: String): Playlist

+ getPlaylistByName(name: String): Playlist

+ rateSong(song: Song, rating: int): void

+ getPlaylists(): List<Playlist>

+ getArtists(): List<String>

+ getFavoriteSongs(): List<Song>

- inStore(song: Song): boolean

- inStore(album: Album): boolean

+ markAsFavorite(song: Song): void

interacts with

MusicStore - albumsBvTitle: Map<String, Album> - albumsBvArtist: Map<String, List<Album>> songsByTitle: Map<String, List<Song>> - basePath: String works with + MusicStore(filePath: String) - initializeStore(): void - processAlbumFile(albumTitle: String, artist: String): void + getAlbumByTitle(title: String): Album + getAlbumsByArtist(artist: String): List<Album> + getSongsByTitle(title: String): List<Song> + getSongsByArtist(artist: String): List<Song> + getSongByArtistAndTitle(artist: String, title: String): Song + albumExists(title: String, artist: String): boolean + getAlbumByArtistAndTitle(artist: String, title: String): Album organizes data organizes data Album Song - title: String - title: Strina - artist: String - artist: String <>--- album: Album - genre: String composition - rating: int - year: int - isFavorite: boolean relationship - songs: List<Song> + Song(title: String, artist: String, album: Album) + Album(title: String, artist: String, genre: String, year: int) + rate(rating: int): void + addSong(song: Song): void + markAsFavorite(): void + getTitle(): String + getTitle(): String + getArtist(): String + getArtist(): String + getGenre(): String + getAlbum(): Album + getYear(): int + getRating(): int + getSongs(): List<Song> + isFavorite(): boolean contains contains Playlist - name: String - songs: List<Song> + Playlist(name: String) + addSong(song: Song): void + removeSong(song: Song): void + getSongs(): List<Song> + getName(): String