# **LA 1 UML Diagram**

### Model UML Diagram

### Album

#String albumTitle #String artist #String Genre #int Year -Arraylist<String> songs

+getAlbumTitle(): String

+getArtist(): String +getGenre(): String

+getYear(): int +addSong(String song)

extends

### Song

- -String title
- -Optional<int> rating
- -Boolean favorite
- +getRating(): Optional<int>
- +setRating(int rating)
- +getTitle(): String
- +getFavorite(): Boolear
- +setFavorite()

### **Playlist**

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

## LibraryModel

- -ArrayList<Playlist> playlists
- +addPlaylist(String name)
- +findPlaylist(String name) : Playlis
- +getFavorites(): Arraylist<Playlist>



#ArrayList<Album> albums #ArrayList<Song> songs

- +addAlbum()
- +addSong()
- +findAlbumTitle(String title): ArrayList<Album>
- +findAlbumArtist(String name): ArrayList<Album>
- +findSongTitle(String title): ArrayList<Song>
- +findSongArtist(String name): ArrayList<Song>

### MusicStore