Assumptions and constraints document

Constraints -

Class: Publisher

publisherName	• The name of the publisher must be initialized and cannot be null.
address	• The publisher address must be initialized and cannot be null.
yearOfRegister	• The registered year of the publisher must be an integer value. • The format of the value must be yyyy. • Maximum value must be the current year. • Value must be a positive value.

Class: Artist

artistType	• The type of the artist cannot be null at the initialization. • This must only contain the artist types of writers, singer, composer. • Users must enter the artist type into the application. • If the entered value is not a predefine artist types, it should return an error and error must be logged in the logger.
artistName	• The name of the artist must be initialized and cannot be null.
yearOfBirth	• The year of birth must be an integer value. • The format of the value must be yyyy. • Maximum value must be the current year and current year is the default value. • The value must be a positive value.

Class: Song

title	• The title of the song must be initialized and cannot be null.
genre	• The type of the genre cannot be null at the initialization. • This must only contain the genre types of classical, pop, reggae, jazz, country. • Users must enter the genre type into the application. • If the entered value is not a predefine genre type, it should return an error and error must be logged in the logger.
singer	• Singer is an artist, and the type of the artist is singer.
writer	• Writer is an artist, and the type of the artist is writer.
composer	• Composer is an artist, and the type of the artist is composer.
durationInSeconds	• The duration of the song must be a positive value.
yearOfRelease	• The year of release must be an integer value. • The format of the value must be yyyy. • Maximum value must be the current year and current year is the default value.

	• The value must be a positive value.

Class: Album

albumName	• The album name must be initialized and cannot be null.
yearOfRelease	• The year of release must be an integer value. • The format of the value must be yyyy. • Maximum value must be the current year and current year is the default value. • The value must be a positive value.
listOfSongs	• There must be at least one song in the song list.
publisher	• The publisher of the album must be initialized and must not be null.

Assumption:

- All the songs and albums are already released and will not be released in the future.