**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.**