|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **R1.**  **Register producer** | Controller class | addUser(…) |
| Producer class | Artist(....) |
| Creator(…) |
| Controller class | createProducer(…) |
| Menu class | registerProducer() |
| Menu class | executeOption() |
| **R2.**  **Register consumer** | Controller class | addUser(…) |
| Consumer Class | Premium(…) |
| Standard(…) |
| Controller class | createConsumer(…) |
| Menu class | registerConsumer() |
| Menu class | executeOption() |
| **R3-R4.  Register audio** | Controller class | addAudio(…) |
| Audio class | Podcast(…) |
| Song(…) |
| Menu class | registerAudio() |
| Menu class | executeOption() |
| **R5.**  **Create playlist** | Consumer class | addPlaylist(…) |
| UtilMatrix class | generateCode(…) |
| Playlist class | Playlist(…) |
| Controller class | registerPlaylist(…) |
| Menu class | createPlaylist() |
| Menu class | executeOption() |

|  |  |  |
| --- | --- | --- |
| **R6.**  **Edit playlist** | Consumer class | deletePlaylist(…) |
| Controller class | deleteUserPlaylist(…) |
| Menu class | deletePalylist(…) |
| Consumer class | changeAudioPositionI(…) |
| Controller class | changeAudioPositionOf(…) |
| Menu class | changeAudioPosition(…) |
| Consumer class | changeNameOf(…) |
| Controller class | changeNameOfUserPlaylist(…) |
| Menu class | changeNameOfPlaylist(…) |
| Consumer class | removeAudioFrom(…) |
| Controller class | removeAudioFromUserPlaylist(…) |
| Menu class | removeAudioFromPlaylist(..) |
| Consumer class | addAudioTo(…) |
| Controller class | addAudioToUserPlaylist(…) |
| Menu class | addAudioToPlaylist(…) |
| Menu class | executeEditPlaylist(…) |
| Menu class | editPlaylist() |
| Menu class | executeOption() |
| **R7.**  **Sharing playlist** | Playlist class | toString(…) |
| Controller class | sharePlaylist(…) |
| Menu class | playlistOptions() |
| Menu class | executeOption() |
| **R8.**  **Play an audio** | Audio class | play() |
| Controller class | audiosForUser(…) |
| Menu class | playAudios() |
| Menu class | executeOption() |

|  |  |  |
| --- | --- | --- |
| **R9.**  **Acumulate reproductions** | Audio class | increaseReproductions(…) |
| Producer class | playedAudio(…) |
| Controller class | userPlayed(….) |
| **R10.**  **Ad repropduction** | Audio class | increaseAdPercentage(…) |
| Menu class | playAudios() |
| Menu class | executeOption() |
| **R11.**  **Buy a song** | Consumer class | addPurchasedSong(…) |
| Consumer class | canPurchaseASong() |
| Controller class | buySongFor(…) |
| Controller class | getAvailableSongsFor(…) |
| Menu class | buyASong() |
| Menu class | executeOption() |
| **R12-R13.**  **Most listened classification** | Audio class | getTimesReproduced() |
| Consumer class | classificationStadistics(…) |
| Controller class | getMostPlayedOf(…) |
| Menu class | mostPlayedClassification() |
| Menu class | executeOption() |
| **R14.**  **Top five producers** | Producer class | toString(…) |
| Controller class | producersRanking() |
| Menu class | executeOption() |
| **R15.**  **Audios ranking** | Audio class | toString (…) |
| Audio class | getTimesReproduced() |
| Controller class | audiosRanking() |
| **R16.**  **Total sold songs** | Audio class | toString(…) |
| Audio class | getSales() |
| Controller class | getAudios() |
| Controller class | getTotalSales() |

|  |  |  |
| --- | --- | --- |
| **R17.**  **Top selling song** | Audio class | getEarnings() |
| Audio class | toString(…) |
| Audio class | getSales() |
| Controller class | getAudios() |
| Controller class | getTotalSales() |