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| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **register a producer user** | Main | executeOption(int option): void |
| MusicAppController | registerProducer(String nickname , String id,String url, String name,int option): String |
| MusicAppController | searchUser(String nickname): User |
| User | Add() |
| register a consumer user | Main | executeOption(int option): void |
| MusicAppController | registerConsumer(String nickname , String id ,int option): String |
| MusicAppController | searchUser(String nickname): User |
| User | Add() |
| register song or Podcast | Main | executeOption(int option): void |
| MusicAppController | registerSong (String nickname,String name, String url, int duration, String album, double price, int typeSong): String |
| MusicAppController | registerPodcast (String nickname,String name, String url, int duration, String description, int typePodcast): String |
| MusicAppController | searchUser(String nickname): User |
| MusicAppController | searchAudio(String name): Audio |
| artist | Add() |
| creator | Add() |
| register playlist | Main | executeOption(int option): void |
| MusicAppController | registerPlaylist(String nickname,String name,int option): String |
| MusicAppController | searchUser(String nickname): User |
| MusicAppController | generateMatriz(): int |
| MusicAppController | generateCode(option, matriz): String |
| MusicAppController | generateNumber(): int |
| Standard | addPlaylist (String name, int[][] matriz, String code,int option): Boolean |
| Premium | addPlaylist (String name, int[][] matriz, String code,int option) :boolean |
| Standard | searchPlaylist(String name): Playlist |
| Standard | availablePlaylist(): Boolean |
| Premium | searchPlaylist(String name): Playlist |
| edit playlist | Main | executeOption(int option): void |
| MusicAppController | editAudioPlaylist(int option,String nickname,String namePlaylist, String audio): String |
| MusicAppController | searchAudio(String name): Audio |
| MusicAppController | searchUser(String nickname): User |
| Standard | addAudioPlaylist(String namePlaylist,int typeAudio, Audio audio, String audioName): String |
| Premium | addAudioPlaylist(String namePlaylist,int typeAudio, Audio audio, String audioName): String |
| Standard | searchPlaylist(String name): Playlist |
| Playlist | typePlaylist(int type): int |
| Playlist | searchAudio(String name): boolean |
| Premium | searchPlaylist(String name):Playlist |
| Playlist | Add() |
| Standard | delateAudio(Audio audio, String namePlaylist, String audioName): String |
| Premium | delateAudio(Audio audio, String namePlaylist, String audioName): String |
| Playlist | Remove() |
| Share a playlist | Main | executeOption(int option): void |
| MusicAppController | sharePlaylist(String nickname,String namePlaylist) |
| MusicAppController | searchUser(String nickname): User |
| Standard | sharePlaylist(String namePlaylist) |
| Standard | sharePlaylistMatriz(String namePlaylist) |
| Premium | sharePlaylist(String namePlaylist) |
| Premium | sharePlaylistMatriz(String namePlaylist) |
| Standard | searchPlaylist(namePlaylist) |
| Standard | printMatrix(int[][] matrix) |
| Premium | searchPlaylist(namePlaylist) |
| Premium | printMatrix(int[][] matrix) |
| Playlist | getMatriz() |
| play an audio. | Main | executeOption(int option): void |
| MusicAppController | playingAudio(String nickname,String audio) |
| MusicAppController | searchUser(String nickname): User |
| MusicAppController | searchAudio(String name): Audio |
| MusicAppController | updateState(Audio audio) |
| Standard | Play(Audio audio) |
| Premium | Play(Audio audio) |
| buy a song | Main | executeOption(int option): void |
| MusicAppController | buySong(String nickname, String audio) |
| MusicAppController | searchUser(String nickname): User |
| MusicAppController | searchAudio(String name): Audio |
| MusicAppController | countBuysForUser(String nickname) |
| Song | setNumberSales(int newSale) |
| Shop | getNickname() |
| generate reports | Main | executeOption(int option): void |
| MusicAppController | infoTotalViews() |
| Audio | getView() |
| MusicAppController | infoMostViewSong( String nickname1) |
| MusicAppController | searchUser(String nickname): User |
| Standard | mostSongViews() |
| Premium | mostSongViews() |
| Song | typeSong() |
| MusicAppController | infoMostViewPodcast(String nickname2) |
| MusicAppController | searchUser(String nickname): User |
| MusicAppController | mostPodcastViews |
| Standard | mostSongViews() |
| Premium | mostSongViews() |
| Podcast | typePodcast() |
| MusicAppController | topArtist() |
| Artist | getTotalViews() |
| Artist | getName() |
| MusicAppController | topCreator() |
| Creator | getTotalViews() |
| Creator | getName() |
| MusicAppController | topSong() |
| Song | getView() |
| Song | getName() |
| Song | typeStringSong() |
| MusicAppController | topPodcast() |
| Podcast | getView() |
| Podcast | getName() |
| Podcast | typeStringPodcast() |
| MusicAppController | infoSongsSold() |
| Song | typeSong() |
| Song | getNumberSales() |
| MusicAppController | totalSalesSongs() |
| Song | getNumberSales() |
| Song | getPrice() |
| MusicAppController | mostSoldSong() |
| Song | getNumberSales() |
| Song | getName() |
| Song | getPrice() |