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| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| R1: Register users | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +registerUser(): String |
| +NeoTunesManager() |
| NeoTunesController | +userIdExists(String id): boolean |
| +createConsumer(): boolean |
| +createProducer(): boolean |
| Standard | +Standard() |
| Premium | +Premium() |
| Artist | +Artist() |
| ContentCreator | +ContentCreator() |
| R2: Register audios  : | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +registerAudio(): String |
| NeoTunesController | +createAudio(): boolean |
| +createAudio(): boolean |
| +addAudioToProducer(): boolean |
| Song | +song(): void |
| +podcast(): void |
| R3: Buy songs | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +buySong(): String |
| NeoTunesController | +buySong(): boolean |
| +showConsumers(): String |
| +showAudios(): String |
| Consumer | buySong(): boolean |
| R4: Create playlists | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +registerPlaylist(): String |
| NeoTunesController | +createPlaylist(): boolean |
| +showConsumers(): String |
| +addPlaylistToConsumer(): boolean |
| Consumer | +getPlaylists(): ArrayList<Playlist> |
| R5: Edit playlists | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +editPlaylist(): String |
| Controller | +showConsumers(): String |
| +consumerHasPlaylists(): boolean |
| +showConsumersPlaylists(): String |
| +showAudios(): String |
| +addAudioToPlaylist(): boolean |
| +deleteAudioFromPlaylist |
| Consumer | +addAudioToPlaylist(): boolean |
| +deleteAudio(): boolean |
| Playlist | +addAudio(): boolean |
| +deleteAudio(): boolean |
| R6: Share playlists | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +sharePlaylist(): String |
| NeoTunesController | +showConsumers(): String |
| +showConsumersPlaylists(): String |
| +sharePlaylist(): boolean |
| Consumer | +getPlaylists(): ArrayList<Playlist> |
| Playlist | +checkPlaylistContent(): int |
| +generateId(): String |
| R7: Play audio | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +playAudio |
| NeoTunesController | +showConsumers(): String |
| +showAudios(): String |
| +playAudio(): String |
| +findAudiosProducer(): Producer |
| +updateConsumerData(): void |
| +updateProducerData(): void |
| updateAudioData(): void |
| Consumer | +getTempListenedSongs(): int |
| +setTempListenedSongs(): void |
| +setSongTotalTime(): void |
| +getCountListenedGenre(): ArrayList<int> |
| +checkIfArtistInside(): boolean |
| +getCountOfListenedArtists(): ArrayList<int> |
| +findArtistIndex(): int |
| +getNameOfListenedArtists(): ArrayList<String> |
| +setPodcastTotalTime(): void |
| +getCountListenedCategory(): ArrayList<int> |
| +checkIfContCreatorInside(): boolean |
| +getNameOfListenedContCreators(): ArrayList<String> |
| +getCountListenedContCreators(): ArrayList<int> |
| Audio | +setReproducedTimes(): void |
|  | +getReproducedTimes(): int |
| Podcast | +play(): String |
| Song | +play(): String |
| R8: Show report of total number of reproductions of each type of audio in the platform | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| +executeReport(): void |
| NeoTunesController | +reportNumberOfReprodAudios(): String |
| Audio | +getReproducedTimes(): int |
| R9: Show report of most listened song genre in the entire platform | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| +executeReport(): void |
| +reportMostListenedSongGenre(): String |
| NeoTunesController | +reportMostListenedGenreCategory(): String |
| +sumReprodPerGenreCategory(): int |
| R10: Show report of most listened song genre by a specific user | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| +executeReport(): void |
| +reportMostListenedGenreUser(): String |
| NeoTunesController | +showConsumers(): String |
| +reportMostListenedGenreUser(): String |
| Consumer | +getCountListenedGenre(): ArrayList<int> |
| R11: Show report of most listened podcast category in the entire platform | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| +executeReport(): void |
| +reportMostListenedPodcastCategory(): String |
| NeoTunesController | +reportMostListenedGenreCategory(): String |
| +sumReprodPerGenreCategory(): int |
| Consumer | +getCountListenedCategor(): ArrayList<int> |
| R12: Show report of the podcast category most listened by a specific user | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| +executeReport(): void |
| +reportMostListenedCategoryUser(): String |
| NeoTunesController | +showConsumers(): String |
| +reportMostListenedCategoryUser(): String |
| Consumer | +getNickname(): String |
| +getCountListenedCategory(): ArrayList<int> |
| R13: Show report of the top 5 artists and top 5 content creators | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| +executeReport(): void |
| NeoTunesController | +reportTop5Producers(): String |
| +sortProducersArray(): ArrayList<Producer> |
| +showTop5(): String |
| R14: Show report of the top 10 songs and top 10 podcasts | NeoTunesManager | +showMenu(): void |
|  |  | +executeApp(): void |
|  |  | +reportMenu(): int |
|  | NeoTunesController | +reportTop10Audios(): String |
|  |  | +sortAudiosArray(): ArrayList<Audio> |
|  |  | +showSongsTop10(): String |
|  |  | +showPodcastsTop10(): String |
| R15: Show report of number of songs sold of each genre | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| NeoTunesController | +reportGenreSoldSongs(): String |
| Song | +getGenre(): String |
| +getSoldTimes(): int |
| +getValue(): double |
| R16: Show report of the song with the greatest number of sales in the entire platform | NeoTunesManager | +showMenu(): void |
| +executeApp(): void |
| +reportMenu(): int |
| NeoTunesController | +reportMostSoldSongs(): String |
|  | +findMostSoldSongs(): ArrayList<Song> |
| Song | +getValues(): double |
| +getSoldTimes(): int |
| +getName(): String |
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