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| --- | --- | --- |
| **Functional requirement** | **Class Name** | **Method name** |
| **FuncRec001**  Register producer users. | NeoTunesApp | addUser(int type) : void |
| NeoTunesPlatform | addUser(…) : String |
| NeoTunesPlatform | searchUser(String nickname) : String |
|  | ContentCreator | ContentCreator(…) |
|  | Artist | Artist(…) |
| **FuncRec002**  Register consumer users. | NeoTunesApp | addUser(int type) : void |
|  | NeoTunesPlatform | addUser(…) : String |
|  | NeoTunesPlatform | searchUser(String nickname) : User |
|  | Standard | Standard(…) |
|  | Premium | Premium(…) |
| **FuncRec003**  Register songs | NeoTunesApp | addAudio() : void |
|  | NeoTunesPlatform | addAudio(…) : String |
|  | NeoTunesPlatform | searchAudio(String name) : Audio |
|  | NeoTunesPlatform | searchUser(nickname) : User |
|  | Song | Song(…) |
| **FuncRec004**  Register podcasts. | NeoTunesApp | addAudio() : void |
|  | NeoTunesPlatform | addAudio(…) : String |
|  | NeoTunesPlatform | searchAudio(String name) : Audio |
|  | NeoTunesPlatform | searchUser(nickname) : User |
|  | Podcast | Podcast(…) |
| **FuncRec005**  Create a playlist. | NeoTunesApp | createPlaylist() : void |
|  | NeoTunesPlatform | createPlaylist(…) : String |
|  | NeoTunesPlatform | createPlaylist(…) : String |
|  | NeoTunesPlatform | searchUser(String ickname) : User |
|  | NeoTunesPlatform | searchPlaylist(…) : PlayList |
|  | NeoTunesPlatform | searchAudio(…) : Audio |
|  | NeoTunesPlatform | generateMatriz(…) : int[][] |
|  | NeoTunesPlatform | generatePlaylistCode(…) : String |
|  | Standard | createPlayList(…) : String |
|  | Premium | createPlayList(…) : String |
|  | PlayList | PlayList(…) |
| **FuncRec006**  Edit a playlist. | NeoTunesApp | editPlaylist() : void |
|  | NeoTunesPlatform | searchUser(String ickname) : User |
|  | NeoTunesPlatform | searchPlaylist(…) : PlayList |
|  | NeoTunesPlatform | searchAudio(…) : Audio |
|  | NeoTunesPlatform | generateMatriz(…) : int[][] |
|  | NeoTunesPlatform | generatePlaylistCode(…) : String |
|  | PlayList | setMatriz(…) : void |
|  | PlayList | setCode(…) : void |
|  | PlayList | addAudio(…) : void |
|  | PlayList | removeAudio(…) : void |
|  | NeoTunesPlatform | searchAudioInPlaylist(…) : boolean |
| **FuncRec007**  Share a playlist. | NeoTunesApp | sharePlaylist() : void |
|  | NeoTunesPlatform | sharePlaylist(…) : String |
|  | NeoTunesPlatform | searchPlaylist(…) : PlayList |
|  | PlayList | getMatrix() : int[][] |
|  | PlayList | getCode() : String |
| **FuncRec008**  Simulate playback | NeoTunesApp | simulatePlayback() : void |
|  | NeoTunesPlatform | showSongs() : String |
|  | NeoTunesPlatform | showPodcasts() : String |
|  | Audio | getName() : String |
|  | NeoTunesPlatform | isSong(audioName : String) : boolean |
|  | NeoTunesPlatform | searchAudio(audioName : String) : Audio |
|  | NeoTunesPlatform | searchUser(nickname : String) : User |
|  | Random | nextInt() : int |
|  | Advertisement | play() : String |
|  | Audio | play() : String |
|  | Song | play() : String |
|  | Podcast | play() : String |
|  | Audio | setNumberOfPlays() : void |
|  | Audio | getNumberOfPlays() : int |
|  | Consumer | addPlayback(…) : void |
|  | Consumer | calculateMostListenedCategory() : void |
|  | Consumer | calculateMostListenedGenre(): void |
|  | Podcast | getCategory() : Category |
|  | Song | getGenre() : Genre |
| **FuncRec009**  Buy song | NeoTunesApp | buySong() : void |
|  | NeoTunesPlatform | buySong(…) : String |
|  | NeoTunesPlatform | searchAudio(audioName : String) : Audio |
|  | NeoTunesPlatform | searchUser(nickname : String) : User |
|  | Consumer | buySong() : String |
|  | Standard | buySong() : String |
|  | Premium | buySong() : String |
|  | Standard | searchBuy() : boolean |
|  | Premium | searchBuy() : boolean |
| **FuncRec010**  Report the total accumulated reproductions on the entire platform. | NeoTunesApp | cumulativePlays() : void |
|  | NeoTunesPlatform | cumulativePlays() : String |
|  | Audio | getNumberOfPlays() : int |
|  |  |  |
| **FuncRec011**  Inform the most listened to song genre for a specific user and for the entire platform and its number of reproductions. | NeoTunesApp | mostListenedGenre() : void |
|  | NeoTunesPlatform | mostListenedGenre(…) : String |
|  | NeoTunesPlatform | searchUser(nickname : String) : User |
|  | Audio | getNumberOfPlays() : int |
|  | Consumer | get\*() : \* |
|  | Song | get\*() : \* |
| **FuncRec012**  Inform the most listened to podcast category for a specific user and for the entire platform. | NeoTunesApp | mostListenedCategory() : void |
|  | NeoTunesPlatform | mostListenedCategory(…) : String |
|  | NeoTunesPlatform | searchUser(nickname : String) : User |
|  | Consumer | calculateMostListenedGenre() : void |
|  | Consumer | calculateMostListenedCategory() : void |
|  | PlaybackHistory | get\*() : \* |
|  | Audio | getNumberOfPlays() : int |
|  | Consumer | get\*() : \* |
|  | Podcast | get\*() : \* |
| **FuncRec013**  Inform the name and number of total reproductions of each one of the members of the Top 5 artists and the Top 5 content creators. | NeoTunesApp | getTopsProducers() : void |
|  | NeoTunesPlatform | TopFiveContentCreator() : String |
|  | NeoTunesPlatform | getTopFiveArtist() : String |
|  | ContentCreator | calculatePlays() : void |
|  | ContentCreator | get\*() : \* |
|  | NeoTunesPlatform | getTopProducer(..) : int |
| **FuncRec014**  Inform the name, genre or category and total number of reproductions of each of the members of the Top 10 songs and the Top 10 podcast | NeoTunesApp | getTopsAudios() : void |
|  | NeoTunesPlatform | getTopTenPodcasts() : String |
|  | NeoTunesPlatform | getTopTenSongs() : String |
|  | ContentCreator | get\*() : \* |
|  | NeoTunesPlatform | getTopAudio(..) : int |
|  | Song | toString() : String |
|  | Podcast | toString() : String |
| **FuncRec015**  Report the number of songs sold and the total sales value ($) of each genre. | NeoTunesApp | reportGenreSales() : void |
|  | NeoTunesPlatform | reportByGenre() : String |
|  | Song | get\*() : \* |
| **FuncRec016**  Report the total number of sales and the total sales value ($) of the best-selling song on the platform. | NeoTunesApp | bestSellingSong() : void |
|  | NeoTunesPlatform | bestSellingSong() : String |
|  | Audio | get\*() : \* |