**TABLA ESPECIFICACIÓN DEL PROBLEMA**

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| --- | --- |
| CLIENTE | NeoTunes |
| USUARIO | Users |
| REQUERIMIENTOS FUNCIONALES | **RI:** Registrar usuarios productores, artistas y creadores de contenido.  **R2:** Registrar usuarios consumidores, estándar y premium.  **R3:** Registrar canciones y podcasts.  **R4:** Crear una lista de reproducción**.**  **R5:** Editar una lista de reproducción.  **R6:** Compartir una lista de reproducción.  **R7:** Simular la reproducción de una canción o podcast (estándar y premium).  **R8:** Comprar una canción.  **R9:** Generar informes con los datos registrados:   1. informar el acumulado total de reproducciones en toda la plataforma. 2. informar el género de canción más escuchado 3. Informar la categoría de podcast más escuchada 4. Top 5 de artistas y del Top 5 de creadores de contenido en la plataforma 5. el Top 10 de canciones y del Top 10 de podcast, informar el nombre 6. informar el número de canciones vendidas y el valor tota 7. Mostrar la canción más vendida, con número de ventas y valor total. |
| CONTEXTO DEL PROBLEMA | NeoTunes wants to develop a system to compete in the music streaming market. In this company users can own their music catalog since their model is the subscription and sale of songs through the platform. There will be premium and standard users, each one will have access to different benefits depending on which one is chosen. There will also be producer users, defined as artists and content creators. The audios that the authors will produce will be called songs and those of content creator will be podcasts, these cannot be purchased and have 4 possible categories. On the other hand, playlists that are audio file collections and an auto-generated numeric code will be your identifier. |
| REQUERIMIENTOS NO FUNCIONALES | **R1:** The company wants changes in the future; therefore, the prototype must contemplate the future creation of more audios.  **R2:** Optimization |

**Tabla de análisis de requerimientos funcionales**

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| Nombre o identificador | Register user producer | | |
| Resumen | The platform must allow the registration of producer users, that is, artists or content creators | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| name | String | Can’t be null |
| date | date | Can’t be null |
| url | String | Can’t be null |
| Actividades generales necesarias para obtener los resultados | That the user must selects the option add producer, decide what type it will be, comply step by step with the instructions and enter characters or numbers where it is required. | | |
| Resultado o postcondición | |  | | --- | | The producer would be successfully added on the platform | | | |
| Salidas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| msj | String | “Producer added successfully.” |
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| --- | --- | --- | --- |
| Nombre o identificador | Register consumer users | | |
| Resumen | The platform must allow to register consumer users, that is, standard or premium. | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| nickName | String | Can’t be null |
| cc | String | Can’t be null |
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| Actividades generales necesarias para obtener los resultados | The user must selects the option add consumer, choose standard or premium and comply step by step with the instructions of whether to enter characters or numbers. | | |
| Resultado o postcondición | The consumer would be successfully added on the platform | | |
| Salidas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| msj | String | “Consumer added succesfully.” |
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| --- | --- | --- | --- |
| Nombre o identificador | Register songs or podcast | | |
| Resumen | The platform must allow the registration of songs or podcasts | | |
| Entradas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| nameAudio | String | Can’t be null |
| album | String | Can’t be null if it is required |
| url | String | Can’t be null |
| duration | double | Can’t be null |
| saleValue | double | Can’t be null if it is needed |
| GenderType | genderType | Can't be null, 1-4 to choose between Rock, Pop, Trap, or House / Politics, entertainment, VideoGames, Fashion |
| Actividades generales necesarias para obtener los resultados | Select the option, choose between song (1) or podcast (2) fulfill everything required and enter valid values. | | |
| Resultado o postcondición | Song or podcast added succesfully | | |
| Salidas | Nombre entrada | Tipo de dato | Condición de selección o repetición |
| msj | String | nameAudio “added successfully.” |
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| Name or identifier | Create a playlist | | |
| Summary | The system must allows the users create with a name, and give the user an unique code with a positioned in a 6x6 matrix where they are positioned in different ways based on type: podcast, song or both. The consumer standar will have a limitation of 20 playLists. | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| namePlayList | String | Can’t be null, can’t already exist |
| name | String | Can´t be null, must exists. |
| General activities required to achieve results | Must choose the option add play list, select one of the three options and the consumer must exist and have not exceed their limit if it has and the name of playlist can not already exist | | |
| Result the postcondición | The playlist will be added successfully. | | |
| Output | Input name | Data type | Selection or repetition condition |
| msj | String | “The playlist” namePlayList “was added successfully” |
| code | String | “your playlist code is” code |

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| --- | --- | --- | --- |
| Name or identifier | Edit playlist | | |
| Summary | The system must allows the users edits their playlist | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| namePlayList | String | Can´t be null, must exists. |
| userName | String | Can´t be null, must exists. |
| plusOrLess | Int | Can’t be null, must be 1(add) or 2(delate) |
| audioName | String | Can´t be null, must exists |
| General activities required to achieve results | Select the option, and type valid values. | | |
| Result the postcondición | PlayList edit will be successfully, added or delated | | |
| Output | Input name | Data type | Selection or repetition condition |
| msj | String | Depends if it was addeed or delated |

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| --- | --- | --- | --- |
| Name or identifier | Share play list | | |
| Summary | The system must allows the user to share their playlists | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| code | Int | Select code id of playlist |
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| General activities required to achieve results | Select the option share playList, enter valid values | | |
| Result the postcondición | Share playList | | |
| Output | Input name | Data type | Selection or repetition condition |
| ms | String |  |

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| --- | --- | --- | --- |
| Name or identifier | Simulated the reproduction of song or podcast | | |
| Summary | The system must allows the customer to hear the songs or podcasts, and if it is standard show an anunce | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| type | int | (1) podcast (2)songs, must be int |
| audioName | String | Can’t be null, must exits |
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| General activities required to achieve results | Select the option reproduce, type a valid audio | | |
| Result the postcondition | Will simulated requested audio | | |
| Output | Input name | Data type | Selection or repetition condition |
| ms | String | “Audio: audioName”  “Duration: duration” and anunce if it has. |

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| --- | --- | --- | --- |
| Name or identifier | Buy a song | | |
| Summary | The system must be able to allows the user to buy a song. | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| nameSong | String | Can’t be null, must exists |
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| General activities required to achieve results | Choose the option, type a valid value. | | |
| Result the postcondición | The user bought the song. | | |
| Output | Input name | Data type | Selection or repetition condition |
| ms | String | nameSong “you buy it successfully ” |

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| --- | --- | --- | --- |
| Name or identifier | Report with recorded data | | |
| Summary | The system must allow the user to receive reports with the data that were recorded:  **a.** For each type of audio, songs, and podcast, report the cumulative total of views across the platform.  **b.** Report the most listened song genre (name and number of plays) for a specific user and for the entire platform.  **c.** Report the most-listened podcast category (name and number of views) for a specific user and for the entire platform.  **d.** For each of the members of the Top 5 artists and the Top 5 content creators on the platform, report the name and number of total views.  **e.** For each of the members of the Top 10 songs and the Top 10 podcasts, report the name, genre or category and total number of views.  **f.** For each genre, report the number of songs sold and the total sales value ($).  **g.** From the best-selling song on the platform, report the total number of sales and the total sales value ($). | | |
| Inputs | Input name | Data type | Selection or repetition condition |
| lookFor | Int | Can’t be null, valid num base don info that want to ask for |
| userName | String | Can’t be null if the option requieres the user. |
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| General activities required to achieve results | Choose the option, type a valid value. | | |
| Result the postcondición | The user bought the song. | | |
| Output | Input name | Data type | Selection or repetition condition |
| ms | String | Depens of what the user choose |