**SPECIFICATION TABLE OF THE SOFTWARE ENGINEERING PROBLEM, showing the following elements**

|  |  |
| --- | --- |
| CLIENT | Neo Tunes Company |
| USER | Developers (User) |
| FUNCTIONAL REQUIREMENTS | **R-F1:** Register a Producer User (Artist; Content Creator)  **R-F2:** Register a Consumer User (Premium, Standard)  **R-F3:** Register Songs and Podcasts  **R-F4:** Create a Playlist  **R-F5:** Edit a Playlist  **R-F6:** Share a Playlist  **R-F7:** Simulate playing a song or podcast  **R-F8:** Buy a Song  **R-F9:** Report the total accumulated reproductions for each type of audio  **R-F10:** Report the most listened song genre for a user  **R-F11:** Report the most listened song genre for the entire platform  **R-F12:** Report the most listened podcast category for a user  **R-F13:** Report the most listened podcast category for the entire platform.  **R-F14:** Report the most listened podcast category for the entire platform.  **R-F15:** Report the Top 5 Artist and Top 5 Content Creators (Name and total views)  **R-F16:** Report the Top 10 Songs and Top 10 Podcasts (Name and total views)  **R-F17:** Report the Songs sold and the total sales value (by genre)  **R-F18:** Report the number of sales and the total sales value of the best-selling song |
| CONTEXT OF THE PROBLEM |  |
| NON-FUNCTIONAL REQUIREMENTS | **RNF1:** The application must be scalable (it must allow adding new types of users or audios in the future). |

**Functional Requirements Analysis Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | **R-F1:** Register a Producer User (Artist; Content Creator) | | |
| Resume | It allows registering users through their nickname (player's unique name), id, registered date, and image URL. Depending on its type (Artist; Content Creator) | | |
| Inputs | Input Name | Data Type | Choice or Repeat Condition |
| nickName | String | If the nickname is available |
| id | String |  |
| date | String | YYYY-MM-DD |
| imageURL | String |  |
| acumulatedPlaybacks | Double | Default: 0 |
| acumPlaysByConsumer | Double | Default: 0 |
| General activities necessary to obtain the results | The nickname is not repeated. | | |
| Result or postcondition | User registered successfully | | |
| Outputs | Input Name | Data Type | Choice or Repeat Condition |
| Message | String | User registered successfully |

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | **R-F2:** Register a Consumer User (Standard; Premium) | | |
| Resume | It allows registering users through their nickname (player's unique name), id, registered date, and image URL. Depending on its type (Standard; Premium) | | |
| Inputs | Input Name | Data Type | Choice or Repeat Condition |
| nickName | String | If the nickname is available |
| id | String |  |
| date | String | YYYY-MM-DD |
| General activities necessary to obtain the results | The nickname is not repeated. | | |
| Result or postcondition | User registered successfully | | |
| Outputs | Input Name | Data Type | Choice or Repeat Condition |
| Message | String | User registered successfully |