1. Due to the constant ad breaks in the current streaming apps, it is decided to design and implement an app that can become a replacement for them.

2. Functional Requirements:

|  |  |
| --- | --- |
| **Name** | **FR1. Add new user** |
| **Summary** | A new user is created with username, password and age specified by himself, each user starts with the category "newbie" |
| **Input** | |
| -Username  -Password  -Age | |
| **Results** | |
| The new user is added to the register of users. | |

|  |  |
| --- | --- |
| **Name** | **FR2. Show registered users** |
| **Summary** | The information of each of the users is displayed |
| **Input** | |
|  | |
|  | |
| **Results** | |
| User’s information is visible on the screen | |

|  |  |
| --- | --- |
| **Name** | **FR3.** Allow a user to create a song with all their data and include it in the shared song pool. |
| **Summary** | The user must enter the information of the song that him want to create and the app will add it to the shared song pool |
| **Input** | |
|  | |
| -Title  -Artist’s name  -Release date  -Duration  -Genre | |
| **Results** | |
| The new song is added to the shared song pool. | |

|  |  |
| --- | --- |
| **Name** | **FR4.** Update a user's category as they include songs in the song pool. |
| **Summary** | the user's category is updated every time he reach one of the goals for sharing songs |
| **Input** | |
|  | |
|  | |
| **Results** | |
| User’s category is updated | |

|  |  |
| --- | --- |
| **Name** | **FR5. Show registered songs** |
| **Summary** | The information of each of the songs is displayed |
| **Input** | |
|  | |
|  | |
| **Results** | |
| Song’s information is visible on the screen | |

|  |  |
| --- | --- |
| **Name** | **FR6.** Create a new playlist |
| **Summary** | Allows the user to create a new playlist, the user must decide the playlist variant and its name. Every playlist is created with duration 0 and unknown genre |
| **Input** | |
|  | |
| -Variant  -Name | |
| **Results** | |
| The new playlist is added to the register of playlists. | |

|  |  |
| --- | --- |
| **Name** | **FR7.** Add a song to a playlist |
| **Summary** | Allows the user to add a song from the songlist to a playlist, the playlist updates its duration and its genre |
| **Input** | |
|  | |
| -Song’s title  -Playlist name | |
| **Results** | |
| Playlist’s genre, songs and duration are updated | |

|  |  |
| --- | --- |
| **Name** | **FR8.** Add user to a private playlist |
| **Summary** | If it is a private playlist, the program allows you to add the unique user who has access |
| **Input** | |
|  | |
| -Username | |
| **Results** | |
| Private playlist’s user is updated | |

|  |  |
| --- | --- |
| **Name** | **FR9.** Add users to a restricted playlist |
| **Summary** | If it is a restricted playlist, the program allows you to add the 5 users who have access |
| **Input** | |
|  | |
| -Usernames | |
| **Results** | |
| Restricted playlist’s users is updated | |

|  |  |
| --- | --- |
| **Name** | **FR10.** Add grade to a restricted playlist |
| **Summary** | If it is a public playlist, the program allows you to give it a grade (1-5). The grade will be averaged |
| **Input** | |
|  | |
| -Grade | |
| **Results** | |
| Public playlist’s grade is updated | |

|  |  |
| --- | --- |
| **Name** | **FR11. Show registered playlists** |
| **Summary** | For all playlists its genre, duration and name are displayed. Depending on the variant of the playlist, their unique user, their list of users or their rating are displayed |
| **Input** | |
|  | |
|  | |
| **Results** | |
| Playlist’s information is visible on the screen | |

Non-Functional Requirements:

1. The username can not contain any spaces.

2. The song’s genres are limited to: rock, hip hop, classic music, reggae, salsa and metal.

3. The grade for a public playlist must be bigger than 1 and lower than 5.

4. To display any information, the app must use the specified format.

5. A restricted playlist must have minimum 1 contributor and maximum 5.

6. A private playlist must have 1 contributor.

7. The app can have maximum: 10 users, 20 playlists and 30 songs.