

# ***Webify Music Player***

## ***Description of the Project***

This project arose from the need to create a web page that, besides allowing to listen to music, create an intra and interpersonal interaction. Webify Music Player will be an easy-to-use, enjoyable application to compete against some existing platforms such as *Spotify* and *Youtube Music*.

## ***Application Specifications***

- The user should be able to authenticate, being associated with a nickname, id, unique, password, full name and profile picture.
- Once registered and authenticated, the user can browse the favorite songs, search for a specific song, genre or playlists.
- The user will be able to see, in one section, the users who are connected with you, and recent activity on the app (music they are listening to)
- The user should be able to download or open the music via a web player.
- The user should be able to share music with social media or copy a link.
- The user should be able to create a playlist, choosing its genre, and should be able to share the album
- The user should be able to see recommended music and playlists, according to favorite genres/singers.

## ***Class and Tables Overview***

This project will consist mainly of access to a database, which will consist of several tables, which are related by classes, allowing the interconnection between the various components of the page.

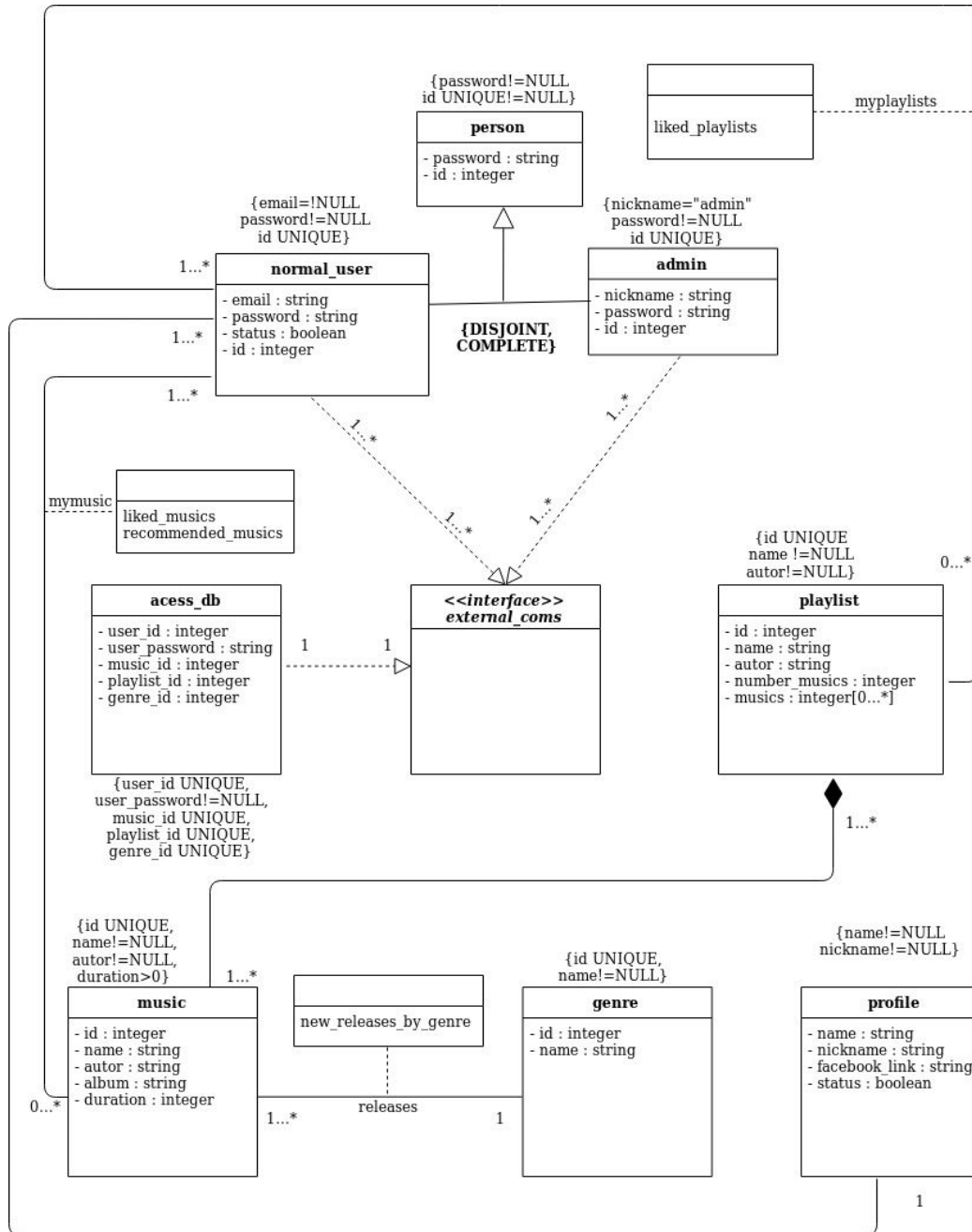
**Classes:**

- *user:normal\_user and admin,*
- *music,*
- *playlist,*
- *genre,*
- *profile,*
- *access\_db,*
- *external\_coms(interface class: communications to database)*

**Tables:**

- *user,*
- *music,*
- *genre,*
- *playlist,*
- *profile*
- *friends*
- *trends*
- *liked\_musics*
- *liked\_playlists*
- *playlists\_trends\_by\_genre*

## UML Diagram



## ***Relational Model***

```
person(id, password);
NOT NULL(password,id)

normal_user(id,status,password,email);
NOT NULL(email, password)

admin(id, password, nickname);
NOT NULL(password)

access_db(user_id, user_password, music_id, playlist_id, genre_id);
NOT NULL(user_password)

myplaylists(id->normal_user,id->playlist,liked_playlists);

mymusic(id->normal_user, id->music, liked_musics, recommended_musics);

releases(id->music, id->genre, new_releases_by_genre);

playlist(id, name, autor, number_musics, musics->music.id);
NOT NULL(name, autor)

external_coms();

music(id, name, autor, album, duration);
NOT NULL(name, autor)

genre(id, name);
NOT NULL(name)

profile(nickname, name, facebook_link, status);
NOT NULL(name, nickname)
```