

PHP - Object Oriented Project

Instructions:

We want to develop a dynamic web application of the type '*Spotify*'.

Here is all the information and all the needs necessary for the development of the application.

Structure:

For *Spotify* :

A music is designated by a title, a release date, an artist and a category.

An artist is designated by name, biography, year of birth and gender.

Example of possible music category: Pop / Rock / Rap / Funk....

A user is designated by a name, a first name, an email and a password.

A playlist is designated by a title, a creation date, a user (the one who owns the playlist) and all of the music in this playlist.

Here is the DB schema associated with this structure:

```
USERS (user_id, first_name, last_name, mail, password)
ARTISTS (artist_id, name, bio, gender, date_of_birth)
SONGS (song_id, title, release_date, #categ_id, #artist_id)
CATEGORIES (categ_id, title)
PLAYLISTS (playlist_id, title, creation_date, #user_id)
PLAYLIST_CONTENT (#playlist_id, #song_id)
```

Part 1:

- Prepare a menu, visible on all pages of your site. This menu contains the links to the pages: Home, Songs, Artists, Playlists and Register / Login.
- Home page ('/'):
The home page is an information page. It displays the title, a short description of the site and the menu.

2nd part:

- Registration page ('/ register'):
Allows the user to register on the site. He must provide the email and password to be able to register.
Before registering the user, we check if their email is not already in use.
Display an error message if this is the case.
- Connection page ('/ login'):
Allows the user to connect.
Check if the user exists in the database.
 - o If the user exists, you should display a success message.
 - o Display an error message if this is not the case or if it has the wrong password.

3rd part:

- My account page ('/ account')
This page will display information about the user.

Part 4:

- Artist list page ('/ artists')
This page will list all artists. You will therefore have to query the database.
At the end, you should have a list of Artists.

For each artist, we will display the name, the first 20 characters of the bio, the genre and the number of music written.

Part 5:

- Artist list page ('/songs')
This page will list all songs.
- Add the option to sort by artist name or song name.

Part 6 :

- Playlist page ('/playlists').
You can access this page only if you are logged in.
On this page you have two sections.

The first one is a form to create a new playlist.
The second section is displaying all the playlists for the user.

Part 7 :

- You have to edit the Songs page ('/songs')
Now, near to each song title, you should add a select/dropdown menu that list all your playlist and a button.
- You can choose one playlist in the dropdown and when the user click on the button it should save the song inside the chosen playlist.