PHP - Object-Oriented Project

Instructions:

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

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

Structure:

For *Spotify* :

A music is designated by a title, an 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.

Here is the schema of BDD 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)

Part 1:

- Prepare a menu, visible on all pages of your site. This menu contains links to the pages: Home, Artists, Account and Register / Login.

- Create the User class, which will contain the necessary information about the user.
  Create the constructor, getters and setters.

- Homepage ('/'):
  The home page is an information page. It displays the title, a small 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 register.
  Before registering the user, we check if his email is not already used. Show an error message if this is the case.

- Login page ('/login'):
  Allows the user to login.
  Check if the user exists in the database.
     o If the user exists, you must display a success message.
     o Show an error message if it is not the case or if it is mistaken for password.

Part 3:

- Change the login process.
  If the user exists, in addition to displaying a message you must create an object from the User class and fill it with all the user information.

- Save this item in Session.

Part 4:

- Page my account ('/ account')
  This page will display the user information in a form already filled. This allows, at any time, to modify its information.
  You should use the saved object in session.

- When we click on 'edit', this should save the new user status. To do this, you can create a method in the User class that allows you to update the user in the database.

Part 5:

- Create the class Song and Artist.
  Be careful, Artist will have an array property, that will represent all its songs.

- Artists List page ('/artists')
  This page will list all artists. You will need to query the database and create an Artist object for each artist found.
  At the end, you should have a list of Artist objects.

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

Note:

You can use PDO for fetch as a class, not necessarily an associative array.
You will find an example in the appendix of this document.