C2 - Backend

C-COD-250

My Show Time

Nest and MongoDB

My Show Time

- The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.

- All the bonus files (including a potential specific Makefile) should be in a directory named *bonus*.

Introduction

You will develop a booking site for concert / festival tickets.
It will be made of two parts, a frontoffice and a backoffice.

Restrictions

- The project must be done with the Nest Framework
- The technology for the database must be MongoDB

Project

The project to be done is a ticket reservation website.
The users must be able to select the concerts he wants to attend. They can search, have a wishlist and book their tickets.
The second part will be the administration panel, he must be able to schedule concerts and have feedback on the reservations already made.

User Functionalities

When not connected:

- See the different concerts that are offered.
- Register and log in.

When connected:

- Change his email and password.
- Book concert tickets.
- Have a list of favorite bands
- Receive notification when one of the groups in our favorites list is scheduled.
- Be able to filter concerts by **genre / date / group**.
- Once the concert is booked, generate a QR code redirecting to the booking link.

Admin Functionalities

Once an administrator account is logged in:

- Create / update / delete an account.
- Create / update / delete a concert.
- Change a user account to administrator.
- Be able to view detailed booking statistics.