Financial Software Programming

Fitness Membership Management Application

Fitness MAX 2.0

Marinica Elena

Popa Alin-Bogdan

Tanase Mircea

Voicu Andrei-Robert

Motivation

The aim of this web application is to provide a reliable, user friendly and scalable application for managing the subscriptions of customers to a fitness club. The most typical feature / use case is for a customer to log in to his account, view the schedule of the gym (on a specific date) and book a place to a class. Also, a customer will have access to the history of his class attendance.

Technologies

We designed a single page aplication that uses:
- Frontend: HTML, CSS, JavaScript, JQuerry, Bootstrap
- Backend: Spring, Maven
- Data Storage: Postgres

Data Modelling (Tables)

CUSTOMER
username (PK) name password

CLASSES
class_name (PK) coach_name description difficulty timetable

TIMETABLE
ID (PK) class_name timestamp

```
BOOKING

ID(PK)
customer
timetable
```

Use Cases

1. Register
   A new user has to provide a unique username, a name and a password in order to obtain an account.
2. Log In
   This service makes a POST request, containing a username - password combination. A valid combination of username + password will retrieve an unique acces token for the current session.

3. View Available Classes (Class name and description)
   This method will display all the available classes and their description.

4. Search classes on given date
   This method enables users to see the available classes on a given date.

5. Get dates for a given class
   If an user is interested in a particular class, he is able to see when the class is scheduled.

6. Book place into a class

7. View class description
   Displays the description for a given class.

8. View all bookings
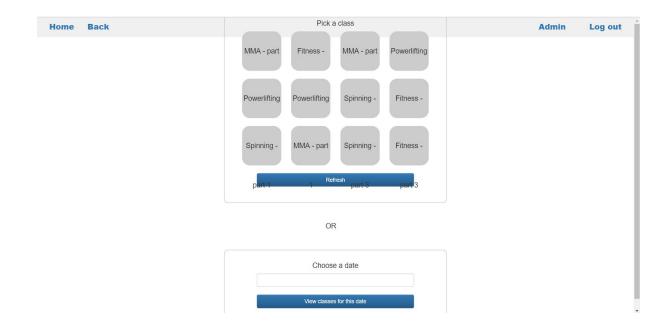   An ADMIN user is able to see all the bookings made by customers.

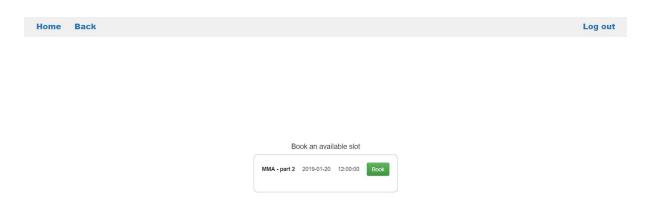9. Logout

Wire Frames

Log In / Sign In:

Fitness MAX 2.0

| username |
| password |
| **Log In** |

OR

| username |
| password |
| name |
| **Sign up** |

View All Classes / View All Classes scheduled on a given date:

Home **Back**   Pick a class   **Admin**   **Log out**

MMA - part	Fitness -	MMA - part	Powerlifting
Powerlifting	Powerlifting	Spinning -	Fitness -
Spinning -	MMA - part	Spinning -	Fitness -

Refresh

part 1   1   part 3   part 3

OR

Choose a date

| |

View classes for this date

View class description:

Class information

className: MMA - part 2
coachName: Vlad Ion
description: Mixed Martial Arts
difficulty: HEART_ATTACK

View dates for this class

Book a place to a class:

Book an available slot

MMA - part 2   2019-01-20   12:00:00   Book

View all bookings (ADMIN user) :

Conclusions

Furtherwork:
- Improve application's interface
- Add new functionalities
- Develop a mobile application, more convenient for users

Working at this project allowed us to put the skills acquired during this semester into practice. The time was rather short, but the end result is clean, functional and easy to improve.