Gym & Padel Management System

Team ID: **GEN_074**

TA: Engy Abdallah

Team members:

2023170714	يوسف السيد حسنين السيد
2023170698	ياسمين محمد عبيد محمد
2023170258	سلمى خالد محمود البهائي
2023170695	ياسمين ربيع محمد محمد
2023170570	مروان صبحي محمد مصيلحي
2023170580	مريم أسامه جعفر ابو الحمد

- Main Idea

  The system simulates the management of subscriptions and reservations for gym members and organizes the reservation system for the gym's padel courts.

- Structure of system

  - User Type: Each user has an email and password to help him log in to his account, he also has a name for the account, his date of birth, data of his subscription , and a variable that stores the location of the account's profile picture and contains some custom data type such as the **slot** he has reserved, **notifications**, classes he is waiting for, and **classes** that have been reserved.

  - Staff Type: His responsibilities differ based on his role. There are three possible roles: manager, receptionist, and coach. Each staff member has a password, email, username, a variable for the profile picture location, and a variable indicating their position. If the staff member is a coach, this also includes the class ID they are assigned to.

o Gym Class type : Each gym class has class Id , class name , instructor , instructor Id , start date , end date, price ,type of subscription allowed to enter this class , max number of member and session added by manager , it also includes a waitlist and a membership list, which are updated based on actual users who join.

o Padel Court type : Each court has a court ID, name, location, price, and a list of reserved slots.

o Credit Card type : Each card includes an ID , CVV , Name , Expiration date and amount

o Workout type: Each workout has Id , type , duration and count of calories burned

o Subscriptions type: Each subscription includes a type, start date, end date, price, and two variables to indicate whether the account is activated and whether it has VIP status.

o Slot type : Each slot includes an Id ,court name , date of slot and start time.

- Notification type: Each notification includes an ID, message, the date and hour it was sent, and a Boolean value indicating whether the message has been read.