Graphical Restaurant Reservation

**1**. **Technologies and concepts**

**.Net Core 3.1**

**Onion Architecture: Model is the center**

**Functional Programming**

**Query LINQ**

**NHibernate**

**Unit tests and integration tests**

**Swagger**

**Vi**

**2. Introduction**

We want to create a booking app that allows you to check the graphical layout of the restaurant, choose your desired seats/table and make the booking for a specific time.

Users can reserve any available seats for a specific time. They can view, select and reserve a table based on the day/hour and the number of seats.

A waiter can manage reservations, view the available seats or reserved tables. He can change the status of a table after the customers have left (available/reserved), the time to confirm the reservation (at least 30 minutes in advance), and also, he can check in customers (when the customers enter into the restaurant)

**2. Use cases**

Customer can:

* + view available tables with the number of seats for specific time and sections.
  + reserve a table beginning with the day and hour selected (contains the number of seats).
  + view reservations.
  + cancel anytime a reservation, or can edit the day and the hour (will depends of the availability of the restaurant).
  + view his history.
  + When a reservation is placed or is canceled, a waiter is notified
  + Noce to have: Subscribe to a section or a table. When a table is available, the user will receive a nofication. The subscription will contain the date and the hour

Waiter can:

* + add, edit, delete tables with number of seats. ( check if the table has reservations. A table can be edited/deleted if there is no reservation for it
  + Add, edit, delete reservations for a user (only the name and the phone number are required, email is optional)
  + view available tables and reservations for a day/hour interval.
  + Complete a reservation (when customers enter into the restaurant).
  + set a table with available status beginning with a hour.
  + set the minimum time to get to the restaurant before to remove the reservation.
  + view history for a table/restaurant.
  + set the activity hours for a restaurant for a day of the week.