**Use case Diagram**

The Use Case diagram is an external view of system. It describes the behaviour of the system

without reference its internal structural or internal processing.

**Why did I use Use Case diagram?**

We can create the use case to show customers a high-level description of what the system is

supposed to do. Its goal is to model the customer requirements in an understandable diagram, and

thus we can work with clients using diagrams which can be understood by not technical people. We also construct the Use Case diagram to have a better view of the different functionalities of the system and to communicate the scope of a development project.

**How did I construct my use-case diagram?**

**1.** I defined the actors of the systems. They represent a person, an organization or an external

system which interact with our system.

In my diagram, I have 3 actors:

a. User: represent a customer/client of the restaurant

b. New User: represent a new customer/client which is used to indicate that a new user must

register in the app before using this one. The new user is a user (generalization

relationship) and the new user can do whatever a user can do. The generalization

relationship is shown as a dashed line with the label IS-A.

c. Admin: This actor represents the owner of the restaurant

**2.** I drew a box to put use cases and every element of a use case diagram inside. This box

represents the boundary of the system. Then, I added the name Booking at the top

center of the box.

**3.** I identified the use cases for the user and new user. “A use case describes a sequence of

actions that provide a measurable value to an actor and is drawn as a horizontal

ellipse”. The use cases “view bookings” and “make a booking” deliver a value added. The first one

allows a user to see the information about the bookings which is crucial from a point of view the user. The second one is the most important one because the app is based in the concept of

booking, so this use case deliver an added value to the user. Register and login use cases

were added because I think they represent important issues in the technical environment.

Lastly, I added the binary associations between actors and use cases with a solid line

**4.** I identified the use cases for the admin. Print bookings was added because the admin needs

to plan the week/day, so this use case is of value for the owner.

The admin also can log in to the app (this use case was added following the same reason

that login and register for user and new user).

The purpose of the use case print invoice is printing an “invoice” to give customer a receipt

of work performed. This is really of value for owner of the garage and the customer. The

user is also connected with Print invoice use case because the user actor is involved with the

interaction described by the Print invoice use case.

Lastly, I added the binary associations to the diagram for the admin actor

**5.** First, this diagram was done in a paper, then was checked and created using the tool offered

by visual paradigm to build use case diagrams