

Hotel Revolution 2014s

Presentation Transcript

Good Afternoon;

slide 1:

We chose the Project: Hotel Guest Room Management System

As you can see the name of our System is Hotel Revolution 20-14s, and the team members are Sara, Gianpaolo, Simone and me, Giovanni.

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Just a Brief introduction about what we have done, and what we aim to do. The Project's scope is to help hotel receptionists in their job, making easier and quicker for them to book rooms for the guests. The software will allow receptionist:

- to book a room in few clicks,
- to find out precisely and immediately which rooms are free and for how many days,
- to find out the general availability of rooms in a certain period and the features of every room

The Software will also help the manager to quickly bill clients and to see the total revenue

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So, requirements and main functions are as you can see:

- the System must be really quick and precise
- must let the staff book/add/delete/modify a room in just a few clicks
- must show all free rooms and possible options (like: the features of the room, and when it will be free)
- must let the staff know who is guesting a particular room and how long it will be occupied
- will let the manager access to the information about payments to bill the guest and to know the total revenue

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Let's see how receptionist, manager and guests, will interface with the System through a Use-CASE Model Diagram. As you can see there are 3 actors; 2 internal, receptionists and manager that can interface directly with the system, and 1 external, the guest that can interact with the system only through receptionists and manager.

- the first thing one notes is that, actually guests do not interact directly with the system, but only with receptionist and manager. This is because the System is for a staff use only. Guest can book, add, modify, delete a reservation interacting with the receptionist and ask the bill to the manager.
- the receptionist is the main user of the System, who actually use the System to work. He can book, add, modify, delete a reservation according to the guest's needs; can check the rooms availability, and can show, modify, add, delete guest's informations.
- the manager is the only person who can access to the entire system, and in particular the only that can manage the sensitive information like partial/total revenue (having a total view of the hotel general situation) and modify the room's price. Guest has to ask to him the bill.

So that was how the Actors interact with the System.

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Let's now take in exam how the Data Model will be Built.

So, there are 4 entities; 3 connected (guests, reservations, room) and 1 separated entity (user).

- The Guest entity has 5 attributes: **IDguest** (that is also the primary Key), *Name*, *Surname*, *DocumentID* and a *Contact*.
- The Reservations entity has also 5 attributes: **IDreservation** (the primary Key), *IDguest* (foreign Key), *IDroom* (another foreign Key), *CheckIN*, *CheckOUT*
- The Room entity has 6 attributes: **IDroom** (the primary key), *RoomNumber*, *PricePerNight*, *NumGuests*, *Smoker*, *Wifi*

Let's take a look on the cardinality of the relations.

As you can see the cardinality between Guest entity and reservations entity goes from a minimum of one-to-one, it means that one guest can book a minimum of one reservation, to a maximum of one-to-many, it means that a guest can book many rooms, even the total of free rooms.

On the other relation (reservations - rooms) we have a cardinality that goes from a minimum of zero-to-one, it means that there could be at minimum zero reservation for one room, to a maximum of many-to-one, it means that could be many reservations for one room. Why many? because of 2 aspects: first we will introduce a history of the booked reservation of each room, second because a room could have many reservations in the future.

The user entity will store the staff data, and in particular will facilitate the login to the manager.

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Conclusion;

We have tried to build a System as simple as possible. It needs to be quickly to improve the communication between receptionists and guests, and also easy to use to facilitate the manage of the hotel.