

HACETTEPE UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING



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DATABASE MANAGEMENT SYSTEMS LABORATORY

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HOTEL RESERVATION SYSTEM
PROJECT PROPOSAL

PROJECT MEMBER

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Hotel Reservation System

1. Project Definition

We have chosen the "Hotel Reservation System" as the subject of our project. Of course, you can make a reservation by entering the site of a hotel or by contacting directly by phone. Doing so will only provide you with cursory information about that hotel. But "What exactly is the hotel's features and price? Which hotel is more affordable? Which hotel has better service quality?" For your questions like this, we thought that a site where all hotels are gathered under one roof can be much more useful. Therefore, we want to gather these hotels under a single site, filter them according to the customer's request and ensure that customers find the appropriate hotel in a simpler and easier search away from confusion. There are many global sites similar to the project. For example, "Trivago", "booking.com". We aim to get inspiration from these sites while doing our project.

2. User Type and Application Information

2.1 Hotels

One of the main actors in our system is hotels. The processes that the hotels can do in the system and their features are listed below.

- ☐ Hotels are required to register and log into the system in order to make the process.
- ☐ There are two types of staff working at the hotel. One is a normal employee and the other is an administrator. The manager can see the hotel's financial budget and statistics. The hotel's current occupancy rate and the availability of rooms can be seen by both the manager and the hotel staff.
- ☐ The hotels have rooms with different features, different sizes, and different prices according to their specific structures.
- ☐ Hotels can add a new room, delete the room from the system, at the same time update the properties of the room.
- ☐ Information on whether rooms can be used, in particular renovations and maintenance, cleaning, is updated by hotel staff.
- ☐ The current condition of the room, whether it is full (until when) or empty must be specifically indicated to the customer.
- ☐ Rooms may have extra features or may be added.

2.2 Customers

People who use the system are defined as customers. The transactions that customers can perform in the system are listed below.

- ☐ There are 2 types of customers in the system. Non-logging customers and logging customers.
- ☐ Customers, who are not logged in, can only search in the system and view hotels. In order to make a reservation, the customer must register in the system.
- ☐ Customers, who are logged in, will be able to update their personal information (address/phone/mail, etc.) as they will have a profile of their own.
- ☐ After logging into the system, the customer can select rooms, make reservations or cancel all such transactions.
- ☐ They can filter the rooms according to their wishes and sort them by price.
- ☐ If the customer wishes to reserve a room, he/she must enter the date information. In this way, information about which rooms are full and which rooms are empty can be kept in the system. When the reservation date is over, the room will be restored to empty status.
- ☐ When the customer has booked the room, the price is deducted from the account defined in the system. (According to the payment method he wants to make)
- ☐ The customer can choose additional facilities for the room and the fee varies accordingly.