

Describe a system for hotel business using UML use case diagram. Include following functionality:

For the hotel guest

- search available rooms
- make a reservation (after registration). Up to 2 reservations are possible for each guest
- confirm reservation
- cancel reservation
- pay through credit card or bank transfer

For VIP guests:

- make unlimited number of reservations

For the hotel manager

- alter reservation list (remember to issue notice to the future guests!)
- remove rooms (remember to alter reservation list!)
- add rooms
- change room details (remember to issue notice to the future guests!)

For the system:

- maintain list of rooms and reservations in the database
- interact with external payment system for guest payments
- apply discounts for long stays, unpopular periods of the year and for VIPs