**Design a Hotel Management System**

A Hotel Management System is a software built to handle all online hotel activities easily and safely. This System will give the hotel management power and flexibility to manage the entire system from a single online portal. The system allows the manager to keep track of all the available rooms in the system as well as to book rooms and generate bills.

### System Requirements

### We’ll focus on the following set of requirements while designing the Hotel Management System:

1. **The system should support the booking of different room types like standard, deluxe, family suite, etc.**
2. **Guests should be able to search the room inventory and book any available room.**
3. **The system should be able to retrieve information, such as who booked a particular room, or what rooms were booked by a specific customer.**
4. **The system should allow customers to cancel their booking - and provide them with a full refund if the cancelation occurs before 24 hours of the check-in date.**
5. **The system should maintain a rooms booking log to keep track of all available number of rooms.**
6. **The customers should be able to pay their bills through credit card or cash.**