

Intelligent NUS Visitors' Lodge

Group 1-1

In our project, we aim to improve the current hotel system in four aspects.

SMS Booking System

Our system is installed with a GSM hardware which is used to receive and send SMS.

1. Receiving SMS: The system can receive booking SMS from guests and store their booking information.
2. Sending SMS: After receiving the booking SMS, the system will check the room availability and send back the booking results to the users.



Frontdesk System

The auto check in/out feature is achieved by a GUI.

1. Check in: Guests can check in by filling the information on GUI. If he/she has not booked the room, there is possibility that no room is available.
2. Check out: Upon check out, guests can view their payment during their stay.
3. Staff: Staff can log on to the system to view the service request from all rooms.

Room Entering System

Once a user checks in, the room entering system of the specific room allocated to the guest will be activated. IR sensor is used to detect the presence of people in front of the door.

1. Password: Guests can enter the room by keying in their password.
2. RFID: Besides password, guests can also choose to enter the room by tapping the matriculation cards.

Indoor System

The indoor system will be on after the guest entering the room.

1. Auto control: Fan and light will be on and window will open automatically
2. Safety equipments: Fire and rain detectors are installed in the room. Once it rains, the window will be closed automatically. If it detects fire, a fire alarm will be on.
3. Service ordering machine: Guests can order services in room by using a LCD and a keypad. Services include meal ordering, laundry, room cleaning and taxi booking request, alarm setting as well as information.