

# **The Quiet Night Hotel**

## **Case study for COMP201 (Software Engineering I)**

### **REQUIREMENTS**

#### **Modification history**

Tom Carroll 7/8/2021 Created

Seb Coope 12/8/2021 Added in room occupancy details and secure  
login

#### **Introduction**

The Quiet Night Hotel is a new independent hotel that is opening soon. The owner has approached you to build the hotel's IT systems. The owner has given you the following brief:

#### **Room Booking Database**

The hotel requires a booking database that captures the following information, so that it will be possible to create bookings, view and manage bookings:

- The hotel has 30 rooms, let on a flat-rate per night basis:
  - 10 single rooms (£75/room/night) (rooms 1-10), max occupancy 1
  - 10 double rooms (£110/room/night) (rooms 11-20), max occupancy 2
  - 7 premier rooms (£145/room/night) (rooms 21-27), , max occupancy 2
  - 3 executive suites (£175/room/night) (rooms 28-30), , max occupancy 3
- Breakfast is charged at a flat rate: £7.99 per guest each morning.
- The booking information contains the main guest's details, the room number(s) booked, the arrival and departure dates, the number of guests, the number of breakfasts booked, and the total bill amount (which includes a £3 City Tax per night per guest).
- Guests may choose to add breakfasts onto their booking.
- At the time of booking, the guests do not pay their bill. The final bill is calculated and paid at departure.
- The database should indicate that a guest has checked-in, and also indicate that a guest has checked-out and paid their bill.

## **Room Booking Management System**

In order to make the database usable, a front end is required.

It should allow the staff user to:

- View room availability
- Create a booking
- Cancel a booking
- Check a guest in / out
- Add breakfast for a guest
- Create invoice for a booking
- Confirm payment for a booking
- Add or remove guests from the system
- View and Change guest details

The system needs have a secure login, which takes a username and password