# Project Requirements

## Entities and Attributes

### Guests

- Guest ID
- Name
- DOB
- Email
- Phone number
- Address
- City
- Country

### Guest ratings

- Rating value
- Comment
- Rating date

### Bookings

- Booking number
- Start date
- End date

### Rooms

- Room ID
- Cleaned date
- Check in date
- Checkout date
- Room status
- Assigned staff

### Room types

- Room type
- Price
- Max occupancy
- Description

**Staffs**

- Staff ID
- Name
- Hire date
- DOB
- Email
- Phone Number
- Gender

**Roles**
- Role title
- Description

**Payment methods**

- Payment method type

**Invoices**

- Invoice ID
- Invoice due date
- Invoice status

**Items**

- Item ID
- Item name
- Item price
- Item quantity

**Departments**

- Department name

*Additional Requirements:*

- Guest and staff names are composite attributes and must be broken down to first name and last name.
- Room status attribute has multi values.
- Invoice status attribute has multi values.
- Checkin date occurs before checkout date.

- Cleaning has to be done after a guest checkout.
- Guests can rate their stay after the stay is over.
- Guests and staffs email is unique to ensure entity integrity in the table.
- Guests can rebook a room as many times as they want.
- Room status must be updated when the guests checkout their room.

*Note: some of the requirements were not be implemented due to time constraint when working on the project.*