# Textual Analysis for the Booking System

A system is required to allow for the bookings of rooms, within the halls of residence and the conference rooms, for events.

Each **room** will have a **type**, **name** and **price** and can be booked by a registered **user**, by logging in, with their **username** and **password**.   They will have to provide a **customer** **name**, **address** and **contact details** and select a room.  Users will have **privileges** to establish which can only view the **bookings**, to those who can create, edit and delete, customers, rooms and bookings.

Each booking of a room will have a **duration**, which will be determined by the **check in date** and **time** and the **check out date** and **time**.  Each booking will also have a **date booked**.

List of data to be collected

|  |  |  |
| --- | --- | --- |
| Room | User | Employee |
| Room type | Username | Name |
| Room price | User Password | Address |
| Room name | Customer | Email Address |
| User Privileges | Duration | Check in date and time |
| Check out date and time | Date booked |  |

Identifying of attributes and entities

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute** | **of** | **Entity** | **Attribute** | **of** | **Entity** |
| Room type | of | Room | User Password | of | User |
| Room price | of | Room | Customer Name | of | Customer |
| Room name | of | Room | Customer Address | of | Customer |
| Username | of | User | Customer Email | of | Customer |
| Employee Name | of | Employee | Employee Address | of | Employee |
| Date booked | of | Booking | Check in Date and Time | of | Booking |
| Employee Type | of | User | Check out Date and Time | of | Booking |
| Customer Type | of | User |  |  |  |

A user can book many rooms.

A user can only have one username.

A user can have only one password.

A room can only be booked by one customer.

A room can have only one price.

A room can have only one name.

A room can only have one type.

A customer will have name.

A customer will have an address.

A customer will have an email address.

A booking can have only one customer.

A booking will have only one price.

A booking will have only one check in date and time.

A booking will have only one check out date and time.

### ERD Diagram

