

DTD Description for Hotel Domain

Group 7: Katta Manasa (CS19B022), Akila Tharini Sivakumar (CS20B006), Aniket Singh Patel (CS20B007), Araj Khandelwal (CS20B008), Sasubilli Yuvan (CS20B070)

1. The root element is 'hotel'. It consists of information about the hotel.
2. The hotel has a unique hotel ID, name, address, phone number and email_id. Optionally, it may include a website.
3. The hotel has one or more departments (office, housekeeping etc), one or more rooms and optionally offers some services and amenities. There may be 0 or more customers with reservations at the hotel.
4. The hotel may also have an optional rating
5. Address consists of the street name, city and state. Pincode may be included, but is not compulsory.
6. Each department in the hotel has a name, contact number and one or more employees working under that department.
7. Each department is uniquely identified by its deptID and has an employee who heads that department.
8. An employee has a unique emplID, name, address, phone number, login credentials, his job role and may have another employee as an assistant.
9. An employee's login credential consists of a unique username and a corresponding password.
10. Each customer has a name, phone number, address, email_id and one or more reservations at the hotel. Each customer is given a unique custID when they make a reservation.
11. A reservation can be made for a room in the hotel from a check in date to a check out date. Each reservation is identified by its resID.
12. Each room has a unique room number, is on some floor of the hotel and is of some type.
13. A room type can be either regular or luxury and has a cost.
14. The reservation date, check in and check out dates are written in ISO date format.
15. Each service provided by the hotel (room cleaning, laundry etc) has a unique service id, a name and cost.
16. Each amenity offered by the hotel has a name and may have bookings for using that facility. Additionally, it may have a maximum capacity that can be accommodated.

17. Each booking has the customer id and name of the person making the booking, date and slot for using the facility along with the number of people for whom it is booked. Each booking can be identified by its booking ID.
18. Each slot has a fixed duration of one hour and a start time.
19. The entities reg_cost, med_cost and lux_cost denote the three different cost categories for the rooms in the hotel.