Hotel

- name: String
- address: String
- phoneNumber: String
- rooms: Rooms[]
- reservations: Reservation[]

+ addRoom(roomNumber: int, type: RoomType): void
+ removeRoom(roomNumber: int): void
+ getAvailableRooms(type: RoomType): Rooms[]
+ getRoomByNumber(roomNumber: int): Rooms
+ makeReservation(roomNumber: int, guest: Guest, checkInDate: Date, checkOutDate: Date): Reservation
+ cancelReservation(reservationID: int): void
+ getReservationByID(reservationID: int): Reservation
+ getReservationsByGuest(guest: Guest): Reservation[]
+ checkIn(reservationID: int): void
+ checkOut(reservationID: int): void

Rooms

- roomNumber: int
- type: RoomType
- isAvailable: boolean

+ isAvailable(): boolean

Guest

- firstName: String
- lastName: String
- email: String
- phoneNumber: String
- address: String

+ getFullName(): String

RoomType

- type: String
- costPerNight: double

+ getType(): String
+ getCostPerNight(): double

Reservation

- reservationID: int
- checkInDate: Date
- checkOutDate: Date
- guest: Guest
- room: Rooms

- getTotalCost(): double
+ getReservationID():int
+ getCheckInDate(): Date
+ getCheckOutDate(): Date