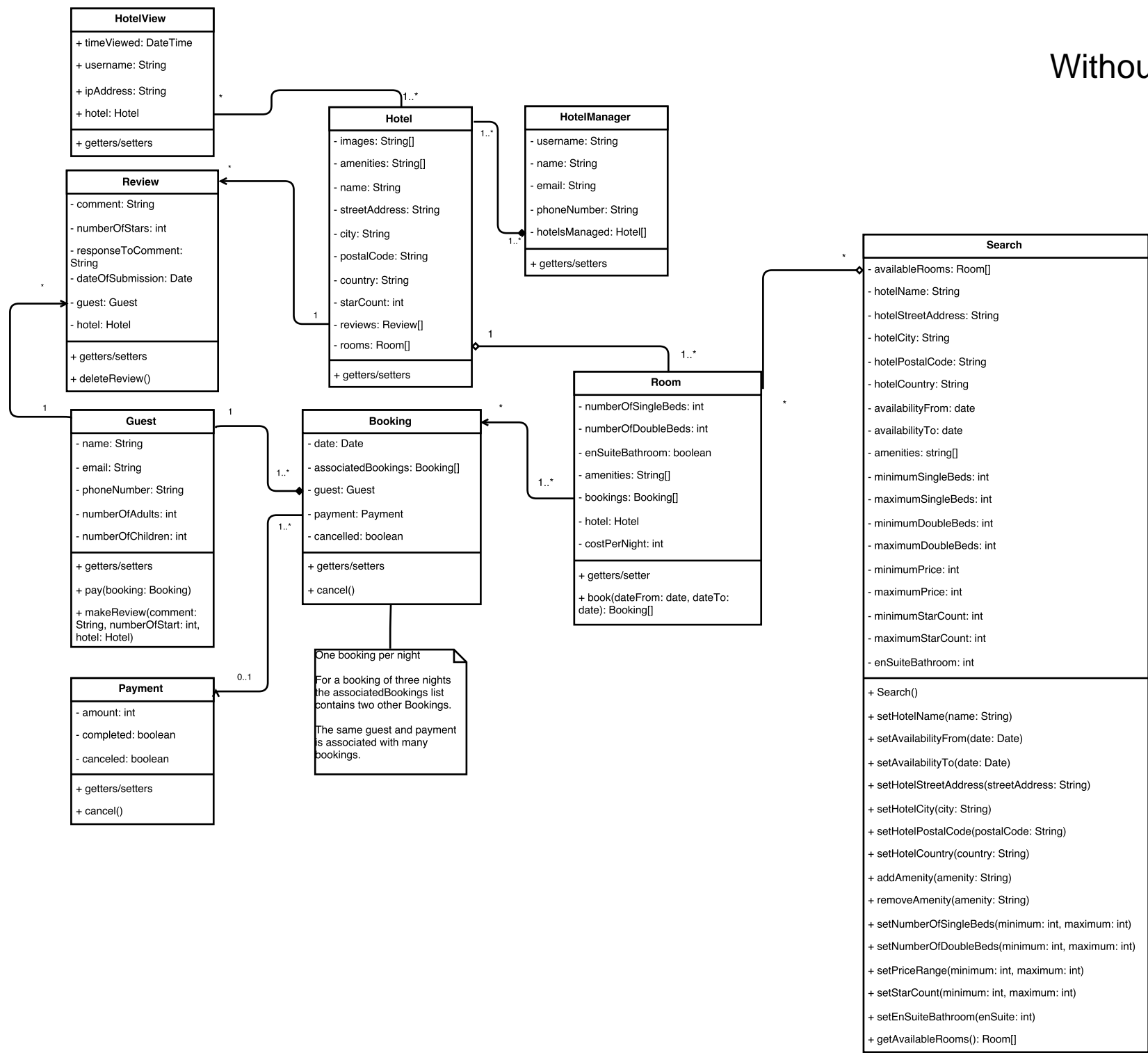HBV401G Software Development

Assignment 2
Team 8H

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Without comments

HotelView
+ timeViewed: DateTime

+ username: String

+ ipAddress: String

+ hotel: Hotel

+ getters/setters

Hotel
- images: String[]

- amenities: String[]

- name: String

- streetAddress: String

- city: String

- postalCode: String

- country: String

- starCount: int

- reviews: Review[]

- rooms: Room[]

+ getters/setters

HotelManager
- username: String

- name: String

- email: String

- phoneNumber: String

- hotelsManaged: Hotel[]

+ getters/setters

Review
- comment: String

- numberOfStars: int

- responseToComment: String

- dateOfSubmission: Date

- guest: Guest

- hotel: Hotel

+ getters/setters

+ deleteReview()

Guest
- name: String

- email: String

- phoneNumber: String

- numberOfAdults: int

- numberOfChildren: int

+ getters/setters

+ pay(booking: Booking)

+ makeReview(comment: String, numberOfStart: int, hotel: Hotel)

Booking
- date: Date

- associatedBookings: Booking[]

- guest: Guest

- payment: Payment

- cancelled: boolean

+ getters/setters

+ cancel()

Note: One booking per night

For a booking of three nights the associatedBookings list contains two other Bookings.

The same guest and payment is associated with many bookings.

Room
- numberOfSingleBeds: int

- numberOfDoubleBeds: int

- enSuiteBathroom: boolean

- amenities: String[]

- bookings: Booking[]

- hotel: Hotel

- costPerNight: int

+ getters/setter

+ book(dateFrom: date, dateTo: date): Booking[]

Payment
- amount: int

- completed: boolean

- canceled: boolean

+ getters/setters

+ cancel()

Search
- availableRooms: Room[]

- hotelName: String

- hotelStreetAddress: String

- hotelCity: String

- hotelPostalCode: String

- hotelCountry: String

- availabilityFrom: date

- availabilityTo: date

- amenities: string[]

- minimumSingleBeds: int

- maximumSingleBeds: int

- minimumDoubleBeds: int

- maximumDoubleBeds: int

- minimumPrice: int

- maximumPrice: int

- minimumStarCount: int

- maximumStarCount: int

- enSuiteBathroom: int

+ Search()

+ setHotelName(name: String)

+ setAvailabilityFrom(date: Date)

+ setAvailabilityTo(date: Date)

+ setHotelStreetAddress(streetAddress: String)

+ setHotelCity(city: String)

+ setHotelPostalCode(postalCode: String)

+ setHotelCountry(country: String)

+ addAmenity(amenity: String)

+ removeAmenity(amenity: String)

+ setNumberOfSingleBeds(minimum: int, maximum: int)

+ setNumberOfDoubleBeds(minimum: int, maximum: int)

+ setPriceRange(minimum: int, maximum: int)

+ setStarCount(minimum: int, maximum: int)

+ setEnSuiteBathroom(enSuite: int)

+ getAvailableRooms(): Room[]

With comments

HotelView

+ timeViewed: DateTime

+ username: String

+ ipAddress: String

+ hotel: Hotel

+ getters/setters

Hotel

- images: String[]

- amenities: String[]

- name: String

- streetAddress: String

- city: String

- postalCode: String

- country: String

- starCount: int

- reviews: Review[]

- rooms: Room[]

+ getters/setters

HotelManager

- username: String

- name: String

- email: String

- phoneNumber: String

- hotelsManaged: Hotel[]

+ getters/setters

To search

A search is created and the constraints are set, then when the getAvailableRooms function is called the class searches the database, returns the list and sets the availableRooms variable.

Review

- comment: String

- numberOfStars: int

- responseToComment: String

- dateOfSubmission: Date

- guest: Guest

- hotel: Hotel

+ getters/setters

+ deleteReview()

Guest

- name: String

- email: String

- phoneNumber: String

- numberOfAdults: int

- numberOfChildren: int

+ getters/setters

+ pay(booking: Booking)

+ makeReview(comment: String, numberOfStart: int, hotel: Hotel)

Booking

- date: Date

- associatedBookings: Booking[]

- guest: Guest

- payment: Payment

- cancelled: boolean

+ getters/setters

+ cancel()

Room

- numberOfSingleBeds: int

- numberOfDoubleBeds: int

- enSuiteBathroom: boolean

- amenities: String[]

- bookings: Booking[]

- hotel: Hotel

- costPerNight: int

+ getters/setter

+ book(dateFrom: date, dateTo: date): Booking[]

Payment

- amount: int

- completed: boolean

- canceled: boolean

+ getters/setters

+ cancel()

One booking per night

For a booking of three nights the associatedBookings list contains two other Bookings.

The same guest and payment is associated with many bookings.

Amount in ISK

Amount in ISK

Search

- availableRooms: Room[]

- hotelName: String

- hotelStreetAddress: String

- hotelCity: String

- hotelPostalCode: String

- hotelCountry: String

- availabilityFrom: date

- availabilityTo: date

- amenities: string[]

- minimumSingleBeds: int

- maximumSingleBeds: int

- minimumDoubleBeds: int

- maximumDoubleBeds: int

- minimumPrice: int

- maximumPrice: int

- minimumStarCount: int

- maximumStarCount: int

- enSuiteBathroom: int

+ Search()

+ setHotelName(name: String)

+ setAvailabilityFrom(date: Date)

+ setAvailabilityTo(date: Date)

+ setHotelStreetAddress(streetAddress: String)

+ setHotelCity(city: String)

+ setHotelPostalCode(postalCode: String)

+ setHotelCountry(country: String)

+ addAmenity(amenity: String)

+ removeAmenity(amenity: String)

+ setNumberOfSingleBeds(minimum: int, maximum: int)

+ setNumberOfDoubleBeds(minimum: int, maximum: int)

+ setPriceRange(minimum: int, maximum: int)

+ setStarCount(minimum: int, maximum: int)

+ setEnSuiteBathroom(enSuite: int)

+ getAvailableRooms(): Room[]

0: not set
1: no en suite
2: should have en suite