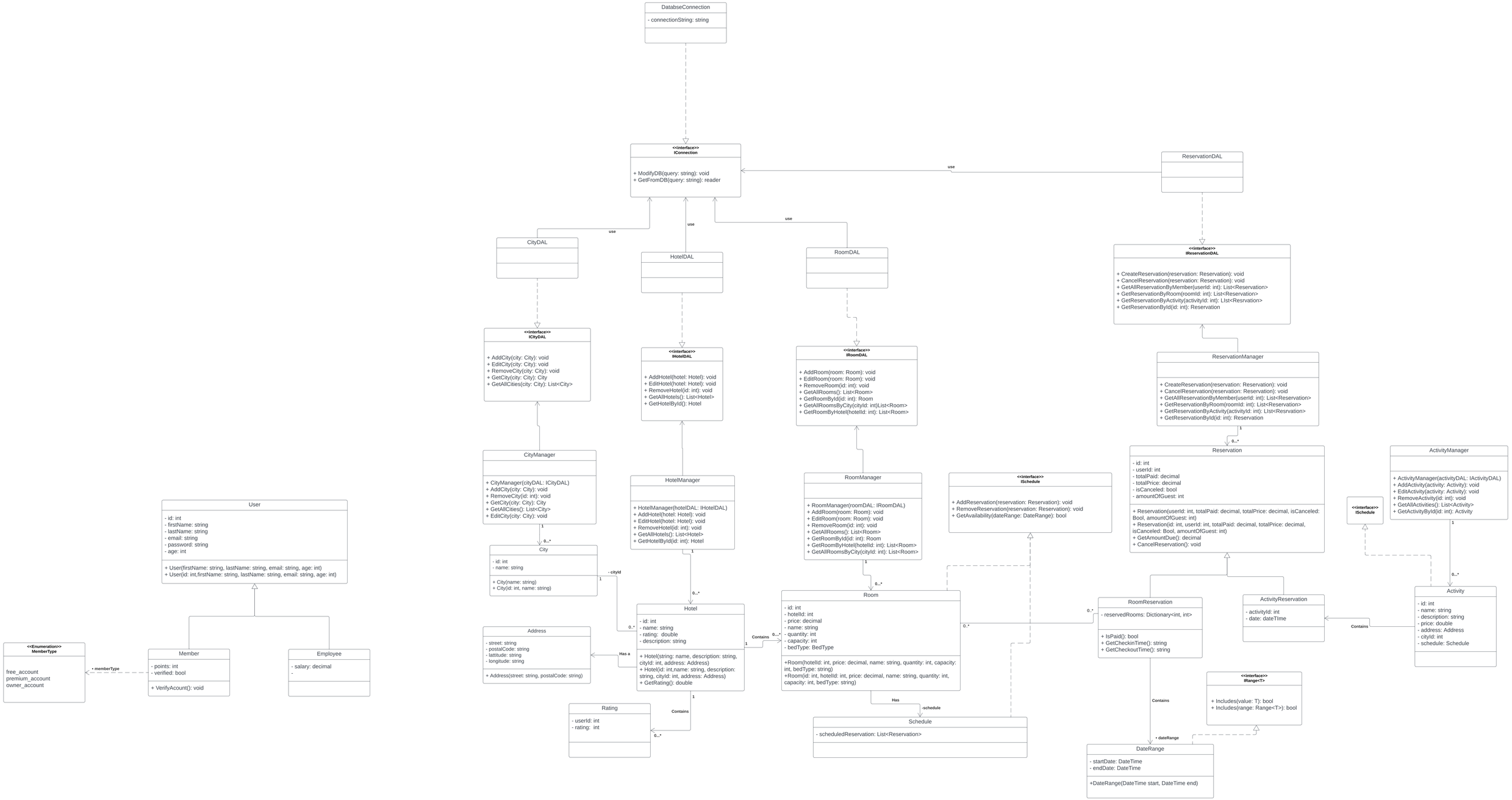
DatabseConnection
- connectionString: string
<<interface>>
IConnection
+ ModifyDB(query: string): void
+ GetFromDB(query: string): reader
use
ReservationDAL
use
use
use
CityDAL
HotelDAL
RoomDAL
<<interface>>
IReservationDAL
+ CreateReservation(reservation: Reservation): void
+ CancelReservation(reservation: Reservation): void
+ GetAllReservationByMember(userId: int): List<Reservation>
+ GetReservationByRoom(roomId: int): List<Reservation>
+ GetReservationByActivity(activityId: int): LIst<Resrvation>
+ GetReservationById(id: int): Reservation
<<interface>>
ICityDAL
+ AddCity(city: City): void
+ EditCity(city: City): void
+ RemoveCity(city: City): void
+ GetCity(city: City): City
+ GetAllCities(city: City): List<City>
<<interface>>
IHotelDAL
+ AddHotel(hotel: Hotel): void
+ EditHotel(hotel: Hotel): void
+ RemoveHotel(id: int): void
+ GetAllHotels(): List<Hotel>
+ GetHotelById(): Hotel
<<interface>>
IRoomDAL
+ AddRoom(room: Room): void
+ EditRoom(room: Room): void
+ RemoveRoom(id: int): void
+ GetAllRooms(): List<Room>
+ GetRoomById(id: int): Room
+ GetAllRoomsByCity(cityId: int)List<Room>
+ GetRoomByHotel(hotelId: int): List<Room>
ReservationManager
+ CreateReservation(reservation: Reservation): void
+ CancelReservation(reservation: Reservation): void
+ GetAllReservationByMember(userId: int): List<Reservation>
+ GetReservationByRoom(roomId: int): List<Reservation>
+ GetReservationByActivity(activityId: int): LIst<Resrvation>
+ GetReservationById(id: int): Reservation
1
0...*
Reservation
- id: int
- userId: int
- totalPaid: decimal
- totalPrice: decimal
- isCanceled: bool
- amountOfGuest: int
+ Reservation(userId: int, totalPaid: decimal, totalPrice: decimal, isCanceled: Bool, amountOfGuest: int)
+ Reservation(id: int, userId: int, totalPaid: decimal, totalPrice: decimal, isCanceled: Bool, amountOfGuest: int)
+ GetAmountDue(): decimal
+ CancelReservation(): void
ActivityManager
+ ActivityManager(activityDAL: IActivityDAL)
+ AddActivity(activity: Activity): void
+ EditActivity(activity: Activity): void
+ RemoveActivity(id: int): void
+ GetAllActivities(): List<Activity>
+ GetActivityById(id: int): Activity
<<interface>>
ISchedule
1
0...*
CityManager
+ CityManager(cityDAL: ICityDAL)
+ AddCity(city: City): void
+ RemoveCity(id: int): void
+ GetCity(city: City): City
+ GetAllCities(): List<City>
+ EditCity(city: City): void
1
0...*
City
- id: int
- name: string
+ City(name: string)
+ City(id: int, name: string)
- cityId
1
0..*
HotelManager
+ HotelManager(hotelDAL: IHotelDAL)
+ AddHotel(hotel: Hotel): void
+ EditHotel(hotel: Hotel): void
+ RemoveHotel(id: int): void
+ GetAllHotels(): List<Hotel>
+ GetHotelById(id: int): Hotel
1
0...*
Hotel
- id: int
- name: string
- rating: double
- description: string
+ Hotel(string: name, description: string, cityId: int, address: Address)
+ Hotel(id: int,name: string, description: string, cityId: int, address: Address)
+ GetRating(): double
Contains
0...*
1
Has a
Address
- street: string
- postalCode: string
- lattitude: string
- longitude: string
+ Address(street: string, postalCode: string)
1
Contains
0...*
Rating
- userId: int
- rating: int
RoomManager
+ RoomManager(roomDAL: IRoomDAL)
+ AddRoom(room: Room): void
+ EditRoom(room: Room): void
+ RemoveRoom(id: int): void
+ GetAllRooms(): List<Room>
+ GetRoomById(id: int): Room
+ GetRoomByHotel(hotelId: int): List<Room>
+ GetAllRoomsByCity(cityId: int): List<Room>
1
0...*
Room
- id: int
- hotelId: int
- price: decimal
- name: string
- quantity: int
- capacity: int
- bedType: BedType
+Room(hotelId: int, price: decimal, name: string, quantity: int, capacity: int, bedType: string)
+Room(id: int, hotelId: int, price: decimal, name: string, quantity: int, capacity: int, bedType: string)
Has
-schedule
Schedule
- scheduledReservation: List<Reservation>
<<interface>>
ISchedule
+ AddReservation(reservation: Reservation): void
+ RemoveReservation(reservation: Reservation): void
+ GetAvailability(dateRange: DateRange): bool
0..*
0..*
RoomReservation
- reservedRooms: Dictionary<int, int>
+ IsPaid(): bool
+ GetCheckinTime(): string
+ GetCheckoutTime(): string
ActivityReservation
- activityId: int
- date: dateTIme
Contains
Activity
- id: int
- name: string
- description: string
- price: double
- address: Address
- cityId: int
- schedule: Schedule
Contains
<<interface>>
IRange<T>
+ Includes(value: T): bool
+ Includes(range: Range<T>): bool
• dateRange
DateRange
- startDate: DateTime
- endDate: DateTime
+DateRange(DateTime start, DateTime end)
User
- id: int
- firstName: string
- lastName: string
- email: string
- password: string
- age: int
+ User(firstName: string, lastName: string, email: string, age: int)
+ User(id: int,firstName: string, lastName: string, email: string, age: int)
<<Enumeration>>
MemberType
free_account
premium_account
owner_account
• memberType
Member
- points: int
- verified: bool
+ VerifyAcount(): void
Employee
- salary: decimal
-