

Fresh Grads – Group Project

Hotel Bookings Management System

Road Map

Application will be developed in following Sprints –

1. Core Java +JPA with Hibernate
2. Spring Boot + Rest Controller + JPA with Hibernate
3. Angular for UI design (Front End) + Integration with previous Sprint

Plan

1. Design

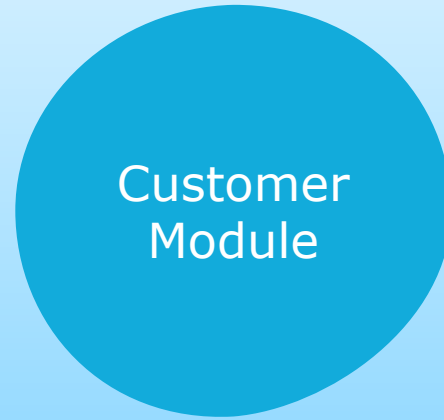
1. Generate the skeleton as per class design provided

2. TDD approach

1. Identify test cases for each module
2. Write Failing Test cases
3. Convert the Test Cases in GREEN

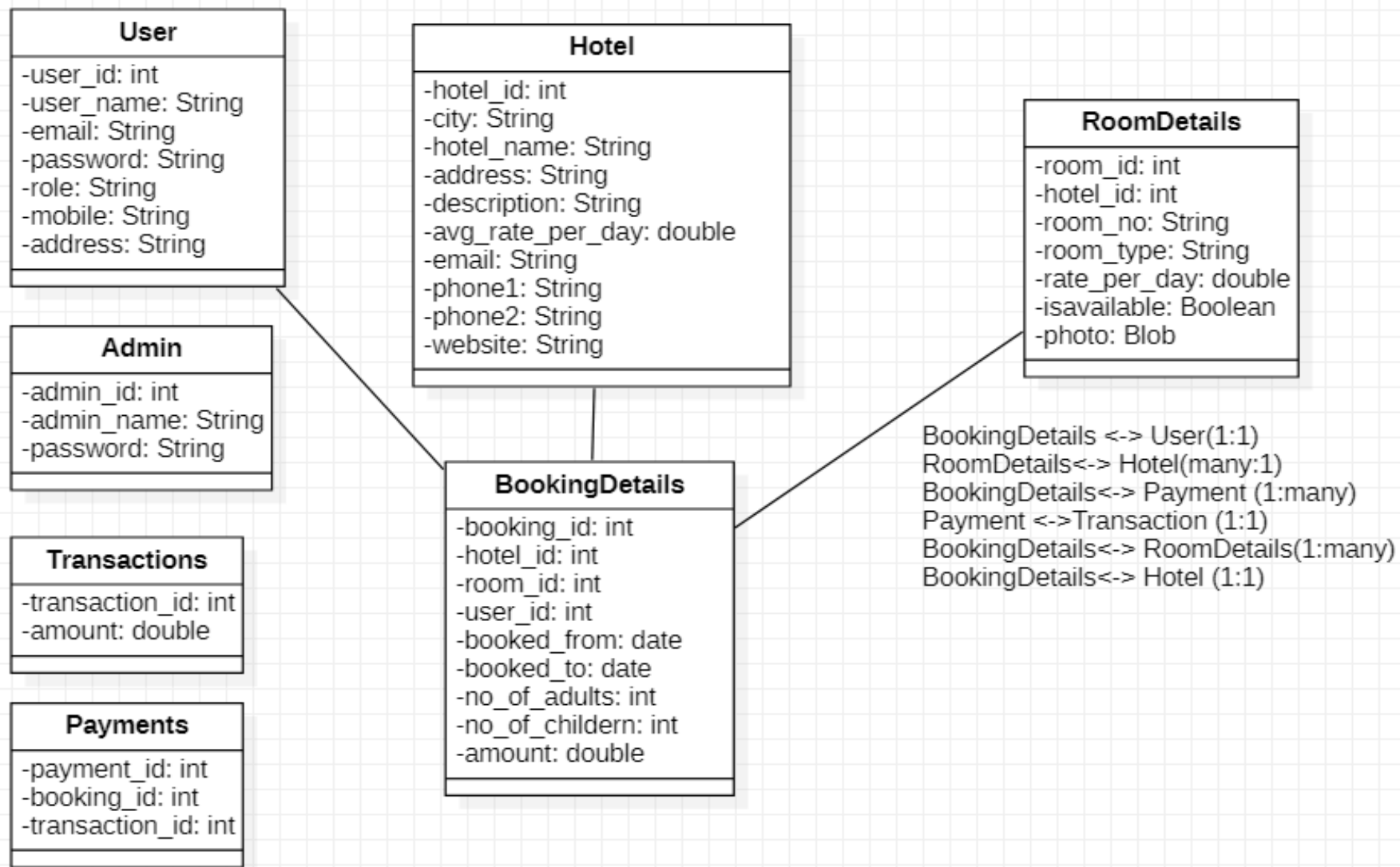
3. Implement the case study in incremental manner

Modules



Class Design

POJO Classes:



Class Design

Service Interface:

IHotelService
+addHotel(Hotel hotel): Hotel +updateHotel(Hotel hotel): Hotel +removeHotel(Hotel hotel): Hotel +showAllHotels(): List<Hotel> +showHotel(Hotel id): Hotel

IRoomDetailsService
+addRoomDetails(RoomDetails roomDetails): RoomDetails +updateRoomDetails(RoomDetails roomDetails): RoomDetails +removeRoomDetails(RoomDetails roomDetails): RoomDetails +showAllRoomdetails(): List<Roomdetails> +showRoomdetails(RoomDetails id): RoomDetails

IBookingDetailsService
+addBookingDetails(BookingDetails bookingdetails): BookingDetails +updateBookingDetails(BookingDetails bookingdetails): BookingDetails +removeBookingDetails(BookingDetails bookingdetails): BookingDetails +showAllBookingDetails(BookingDetails bookingdetails): List<BookingDetails> +showBookingDetails(BookingDetails bookingdetails): BookingDetails

IAdminService
+signIn(Admin admin): Admin +signOut(Admin admin): Admin

IPaymentService
+addPayment(Payment payment): Payment

ITransactionService
+addTransaction(Transaaction transaction): Transaction

IUserService
+addUser(User user): User +updateUser(User user): User +removeUser(User user): User +showAllUsers(): List<User> +showUser(User user): user

Class Design

Repository:

IHotelRepository

```
+addHotel(Hotel hotel): Hotel  
+updateHotel(Hotel hotel): Hotel  
+removeHotel(Hotel hotel): Hotel  
+showAllHotels(): List<Hotel>  
+showHotel(Hotel id): Hotel
```

IRoomDetailsRepository

```
+addRoomDetails(RoomDetails roomDetails): RoomDetails  
+updateRoomDetails(RoomDetails roomDetails): RoomDetails  
+removeRoomDetails(RoomDetails roomDetails): RoomDetails  
+showAllRoomdetails(): List<Roomdetails>  
+showRoomdetails(RoomDetails id): RoomDetails
```

IAdminRepository

```
+signIn(Admin admin): Admin  
+signOut(Admin admin): Admin
```

IPaymentRepository

```
+addPayment(Payment payment): Payment
```

ITransactionRepository

```
+addTransaction(Transaaction transaction): Transaction
```

IBookingDetailsRepository

```
+addBookingDetails(BookingDetails bookingdetails): BookingDetalis  
+updateBookingDetails(BookingDetails bookingdetails): BookingDetalis  
+removeBookingDetails(BookingDetails bookingdetails): BookingDetalis  
+showAllBookingDetails(BookingDetails bookingdetails): List<BookingDetails>  
+showBookingDetails(BookingDetails bookingdetails): BookingDetails
```

IUserRepository

```
+addUser(User user): User  
+updateUser(User user): User  
+removeUser(User user): User  
+showAllUsers(): List<User>  
+showUser(User user): user
```


Questions

