**Hotel Reservation System**

***De-Le-Grande*** is a chain of Hotel present across the cities of India, which provide hospitality services. Recently this concern decides to introduce web based Hotel reservation system.

***The purpose of the System***

**The** followings are the important services & modules of the system

1. Hotel Service
2. Accommodation Type Addition & Fare fixation
3. Hotel addition.
4. Room addition to Hotels.
5. Login Service
6. User Registration.
7. Client Service
8. Room Booking.
9. Guest Other Expenses calculation
10. Client Bill generation & Check out.

***Users of the System***

There are three categories of Users in this system.

1. Super
2. Ordinary
3. Client

***Scope of the System***

The details of each modules are as follows:

1. **Accommodation Type**:- Accommodation type is maintained as follows

|  |  |  |
| --- | --- | --- |
| ID | Name | Fare/day |
| SB | SingleBedded | 1500 |
| DB | DoubleBedded | 2500 |
| ST | Suit | 3500 |

It is added by Super user only

1. **Hotel Addition**:- Hotel records are maintained as follows:-

|  |  |
| --- | --- |
| **ID** | **Name** |
| H1 | De Le Grande Hyderabad |
| H2 | De Le Grande Chennai |
| H3 | De Le Grande Bangaluru |

Both Super and Ordinary user can add a new Hotel. Hotel id is auto generated during new Hotel addition.

1. **Room addition :-** It is used to add rooms in a hotel. Module starts with accepting Hotel id, room type . The Id of Room generated automatically like H1R1,H1R2,H1R3... or H2R1,H2R2,H2R3 etc i.e Hotel id plus room id.

Room status is by default V-> vacant , when Client books status will be C->client. Again when client checks out it will again V. Both Super & Ordinary users can add a new Room.

1. **User Registration :-** User information will be a follows:-

|  |  |  |  |
| --- | --- | --- | --- |
| UserName | Password | Email | UserType |
| John1 | abc123$ | [john.brown@gmail.com](mailto:john.brown@gmail.com) | Ordinary |
| Eric | pqr-456 | [eric.hall1970@gmail.com](mailto:eric.hall1970@gmail.com) | Super |
| Lousie3 | rst854!y | [lou.moore80@yahoo.com](mailto:lou.moore80@yahoo.com) | Client |

Only super & new Client can add a new user but super user can modify an existing user’s status.

When a new client wants to reserve a room in any of the hotels his/her user id is created. Client user can only reserve hotel or cancelled booking. No Cancellation charges are taken at present.

1. **Client Bookings:-**  All users can perform this task. The module starts with input from user which hotel to book, what kind of room, check-in date, check-out date if room is available for that hotel for those days then other details of client are accepted . An Option for Cancel is also there. It will revert all entries.

Client Information is as follows:-

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CNR | Name | Address | Contact No | Gender | Booking Date | Check-in Date | Check-out Date | RoomNo | PayStatus |
| H11001 | Bobb Haward | Raheja Nagar, Hyderabad | 7843567810 | Male | 23-08-2018 | 03-09-2018 | 05-09-2018 | H1R1 | Paid |
| H21002 | Daisy Miller | Anna Nagar,Chennai | 0443245186 | Female | 06-06-2018 | 06-06-2018 | 10-06-2018 | H2R5 | Paid |
| H31001 | Tom Hawk | WhiteField, Bangalore | 849452123 | Male | 10-06-2018 | 11-06-2018 | 19-06-2018 | H3R2 | Paid |
| H21004 | John Brown | Andheri,Mumbai | 0226741245 | Male | 20-07-2018 | 31-08-2018 | 15-09-2018 | H2R6 | Pending |

Client Id will be autogenerated, with Hotel id as prefix.

1. **Client Expenses calculation:-** Both Ordinary & Super user can perform this task. The module begins with what kind of service to enter i.e food &beverage, Loundry & cab, asks CNR as input, displays patients details, asks for input & confirmation **.** These will be reflected in final bill.

Client\_Services

|  |  |  |  |
| --- | --- | --- | --- |
| CNR | Servicetype | Date | Amount |
| H11001 | Food | 03-09-2018 | 400 |
| H11001 | Cab | 05-09-2018 | 900 |

1. **Final Bill Generation : -** Both Ordinary & Super user can perform this task. This module begins with asking CNR as input, displays Client details, asks for confirmation **.** All expenses for that Client will be auto calculated which includes Room Rent & Service charges. Bill date will be the system date. After bill generation, Room will returned as V status.

***System Presentation & User Interface :-***

The System will be developed based on Intercommunicating with Services.

Each of the Service will be a independent Spring Boot application.

They will be related through Eureka Server

The User interfaces will be WebPages like Jsp pages.

At Back end, database will be present.