Hotel Management

1. **Problem Statement**

Create the first iteration of a system the hotel staff create a new Guest, edit Guest information, also manage booking and check in/check out activities of Guest. The administrator can use to add new Room, and edit Room information

Activities of Guest include Booking, Check-In and Checkout.

Each Guest are assigned a unique number. First and Last name, address (street, city, state, zip) and phone number of every members are also stored as Guest data.

Rooms have a unique number, capacity, and room type. Some of room type’s as Single, Double, Triple, Queen, Twin.

For each guest keeps the list of booking entry as bookingNo, fromDate, toDate, totalAmount, description. For each booking entry has booking entry details as roomNo, fromDate, toDate, reservationDate, checkinDate, checkoutDate, amount, description, status.

In order to access the system, a hotel staff or administrator must login. Administrators are “add/remove” a room. But they are not allowed to create new Guest, add booking or booking details of Guest (unless they also have Staff role) . Only hotel staff allow to add/edit booking, booking details, and add/edit Guest information and but not allowed to add/remove room (unless they also have Administrator role)

1. **Use Cases**

The system supports the following use cases

1. **Login**

The first screen a user of the system sees is the login screen, which requests ID and password. When the Submit button is clicked, the ID is looked up in the data store. If this ID can be found, and if the password for this ID matches the password submitted, the authorization level is returned. Authorization levels are STAFF, ADMIN, and BOTH. If login is successful, UI features are made available according to the authorization level of the user.

1. **Add new Guest to the system**

When an Administrator selects the option to add a new member, then he is presented with a form with fields: guest id, first name, last name, street, city, state, zip, telephone number. After the data is entered and submitted, it is persisted using the persistence mechanism for this project

1. **Make room reservation**

When a hotel staff selects the option to make room reservation, firstly he searchs the existing or creates a new Guest, then make a room reservation. The system shows a form to input the general information as bookingNo, fromDate, toDate, totalAmount, description. After submitting the form, the data’s stored into database.

Next, the system shows another form to input the details of booking as as roomNo, fromDate, toDate, reservationDate, checkinDate, checkoutDate, amount, description, status. When the data is entered and submitted, it is persisted using the persistence mechanism for this project.

1. **Check in Guest**

When a hotel staff selects the option to check in, the following steps need to be done:

* The staff searches then selects the booking information of Guest
* Select “Check-in” function
* The system loads the reservation information, the staff updates the checkin information
* Staff submits and the system stores data into the database

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1. **Check out Guest**

When a hotel staff selects the option to check out, the following steps need to be done:

* Open list of check-in information of Guest
* The system loads the Check-in information
* Staff updates information as status, amount… then submit the changed information
* The data is entered then submitted. It is persisted using the persistence mechanism for this project

1. **Add new Room**

When an Administrator selects the option to add a new member, then he is presented with a form with fields: room no, capacity, room type, price. After the data is entered and submitted, it is persisted using the persistence mechanism for this project