

Group members' names:

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Course:

Data strucutres and
algos

Project title:

Hotel superindence
system

Submitted to:

Lt. Col imran

Title: Hotel

SUPERINTENDENCE system

• **Description**

In this project we are going to create a gui based python project which will help a hotel to keep records of newly entered people and the rooms allotted to them. The project will use 'mysql' database to store the entries for future use.

• **Deliverables**

The project will have features of :

- Login system
- Home
- Customer
- Room booking
- Details
- Logout

• **Uses**

Login system

The system will be protected with strong authentication system. The admin have to provide his username and password in order to get access to the system

The admin can also create a new account by providing his personal details.

In case if password is lost by the admin, there is also a password reset option. It will ask for security questions from the admin in order to confirm it's the admin found in the database. If admin answers the question correctly then the system can show/reset the password for the admin.

▪ **Home**

The home page will contain

- Menu
- Customer
- Booking
- Adding new room
- Report
- Logout

▪ Customer details:

This page will show the details of the customers like

- Name of customer
- Mother's name
- Gender
- Mobile no
- Cnic no

It will also enable the admin of the system to update or delete a customer's record

It will allow admin to search a customer through certain filters

The customer details page will also have option of 'adding a new customer'

▪ Booking

This page will allow admin to allot a room to a customer

It will ask for the admin details to identify a admin

It will allow to update, delete a customer etc

▪ Adding a new room

This page will allow admin to add more rooms to the system

It will ask for necessary details of the room and then add it to the system

It will allow to update, delete a room etc

▪ Details:

This section will provide some kind of admin manual which will have all of the necessary details about the system which a new admin needs to know in order to use the system

▪ Logout

this button will allow the admin to log out of the system

• Software Requirements:

- Python
- Python IDE (most preferably VS Code)
- MySql database
- A SQL server

➤ Python Libraries like Tkinter and Pymysql

- **Deadline :** As per requirements of the semester due time, the project have to be completed in a due month of about 4-5 weeks(insha allah)