# Python Mini Project

# REPORT

**Title:**  Hotel Management System

# Description of project:

The project, Hotel Management System is a python application that allows the hotel manager to handle all hotel activities. Interactive GUI and the ability to manage various hotel bookings and rooms make this system very flexible and convenient. The hotel manager is a very busy person and does not have the time to sit and manage the entire activities manually on paper. This application gives him the power and flexibility to manage the entire system from a single online system. Hotel management project provides room booking, customer details and other necessary hotel management features. The system allows the manager to post available rooms in the system. Admin has the power of either approving or disapproving the customer's booking request. Other hotel services can also be viewed by the customers and can book them too. The system is hence useful for both customers and managers to portable manage the hotel activities.

# Libraries used:

1) **Tkinter** - Tkinter is the de facto way in Python to create Graphical User interfaces (GUIs) and is included in all standard Python Distributions. This Python framework provides an interface to the Tk (toolkit) and works as a thin objectoriented layer on top of Tk.

   a) **messagebox** - Python tkinter messagebox Messagebox is used to display pop-up messages. Messagebox provides mainly 6 types of message prompts like showinfo (), showerror (), showwarning (), askquestion (), askokcancel (), askyesno (), askretyrcancel ().

   b) **Ttk** - ttk basically stands for Themed Tkinter, as it provides theming and styling support for Tkinter. The ttk module comes bundled with 18 widgets, out of which 12 are already present in Tkinter.

   c) **Import\*** - The significance of "import \*" represents all the functions and built-in modules in the tkinter library. By importing all the functions and methods, we can use the inbuilt functions or methods in a particular application without importing them implicitly.

2) **PIL -** Pillow is a free and open-source library for the Python programming language that allows you to easily create & manipulate digital images.

a) **Import Image from PIL library** - Use Image.open () method and pass the path to image file as argument. Image.open () returns an Image object. You can store this image object and apply image operations on it.

3) **mysql.connector** - MySQL Connector/Python enables Python programs to access MySQL databases**.**

4) **Datetime** - datetime module provides functions that handle many complex functionalities involving the date and time. Import datetime class using a from datetime import datetime statement. Use strftime () function of a datetime class Use datetime.strftime (format) to convert a datetime object into a string as per the corresponding format.

5) **Random -** To use a random module from Python first we need to import it from the Python library. This random.random ( ) function is used to generate the float numbers between 0.0 to 1.0. The arguments are not needed in it. This random.randint ( ) function which returns the random value from the given range.
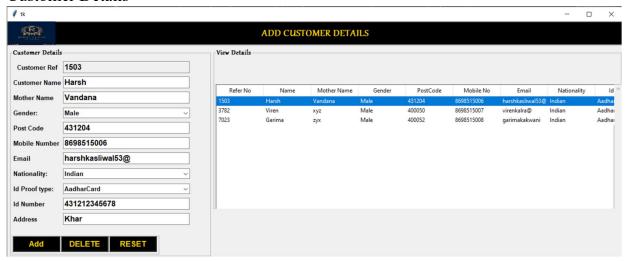
*We have also imported user defined modules in our python programs*
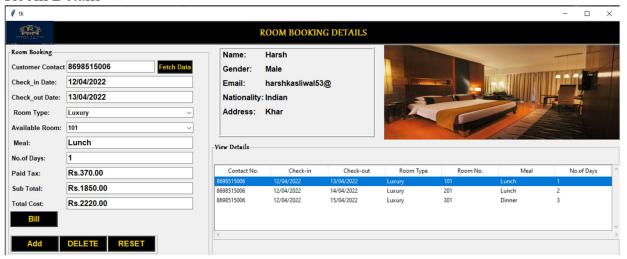
# Screenshots of Output:

Home page

## Customer Details



**ADD CUSTOMER DETAILS**

**Customer Details**

| | |
|---|---|
| Customer Ref | 1503 |
| Customer Name | Harsh |
| Mother Name | Vandana |
| Gender: | Male |
| Post Code | 431204 |
| Mobile Number | 8698515006 |
| Email | harshkasliwal53@ |
| Nationality: | Indian |
| Id Proof type: | AadharCard |
| Id Number | 431212345678 |
| Address | Khar |

Add    DELETE    RESET

**View Details**

| Refer No | Name | Mother Name | Gender | PostCode | Mobile No | Email | Nationality | Id |
|---|---|---|---|---|---|---|---|---|
| 1503 | Harsh | Vandana | Male | 431204 | 8698515006 | harshkasliwal53@ | Indian | Aadhar |
| 3782 | Viren | xyz | Male | 400050 | 8698515007 | virenkalra@ | Indian | Aadhar |
| 7023 | Garima | zyx | Male | 400052 | 8698515008 | garimakakwani | Indian | Aadhar |

## Room Details



**ROOM BOOKING DETAILS**

**Room Booking**

| | |
|---|---|
| Customer Contact | 8698515006    Fetch Data |
| Check_in Date: | 12/04/2022 |
| Check_out Date: | 13/04/2022 |
| Room Type: | Luxury |
| Available Room: | 101 |
| Meal: | Lunch |
| No.of Days: | 1 |
| Paid Tax: | Rs.370.00 |
| Sub Total: | Rs.1850.00 |
| Total Cost: | Rs.2220.00 |

Bill

Add    DELETE    RESET

Name:    Harsh
Gender:    Male
Email:    harshkasliwal53@
Nationality: Indian
Address:    Khar

**View Details**

| Contact No. | Check-in | Check-out | Room Type | Room No. | Meal | No.of Days |
|---|---|---|---|---|---|---|
| 8698515006 | 12/04/2022 | 13/04/2022 | Luxury | 101 | Lunch | 1 |
| 8698515006 | 12/04/2022 | 14/04/2022 | Luxury | 201 | Lunch | 2 |
| 8698515006 | 12/04/2022 | 15/04/2022 | Luxury | 301 | Dinner | 3 |

## Room Adding Dept



**ROOM ADDING DEPARTMENT**

**New Room Add**

| | |
|---|---|
| Floor | |
| Room No. | |
| Room Type | |

Add    DELETE    RESET

**Show Room Details**

| Floor | Room No. | Room Type |
|---|---|---|
| 1 | 101 | Luxury |
| 2 | 201 | Deluxe |
| 3 | 301 | Super Deluxe |
| 4 | 401 | Super Deluxe |
| 4 | 402 | Luxury |