HOTEL MANAGEMENT SYSTEM

PROJECT REPORT

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STUDENT DECLARATION

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we are shall take full responsibility for it.

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Table of Content:

- Student Declaration

- Acknowledgement

- Bonafide Certificate

- Introduction

- Project Tables

- Summary

- Review

  - Welcome Page

  - Customer page

  - Check in

  - Check out

  - And many more…. (SCREENSHOT INCLUDED)

- Candidate Roles

- Results

- Discussion

- Bibliography

BONAFIDE CERTIFICATE

Certified that this project report "………. **HOTEL MANAGEMENT SYSTEM**…................." is the bonafide work of "…………. **PRIYANSHU TRIPATHI, UTKARSH SHAHI, AYUSH GUPTA**................" who carried out the project work under my supervision.

Ashish Shrivastava

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__Introduction__

Simple Hotel Management System project is written in Python and tkinter with database using MySQL. Talking about the system, it contains all the basic functions which include entering customer's data, calculating room rent depending upon the type of room chosen by the customer. We can use all those available features easily without any restriction. It is too easy to use, he/she can check the total cost of staying in the hotel easily with each and every detail. The main aim of the entire activity is to automate the process of day to day activities of Hotel. Administration department will monitor the all. The main of developing this system is to computerize all the activity of the hotel like Admission of a New Customer, assign a room according to customer's demand, checkout of a customer and releasing the room and finally compute the bill etc. Using this system, you can manage check in and check out process easily. At check in, you can easily check the availability of rooms in the hotel. And at checkout you can easily generate the total bill. This hotel management system is developed for hotels those are using a manual system to handle hotel processes. Hotel Management System is a simple project developed in Python. Hotel Management System contains a Python Script (mainly.py). Hotel Management System is a simple GUI based Desktop Application in Tkinter which is very easy to understand and use. __NOTE__: *__main_page.py is starting homepage__*

Abbreviations Used

CI: Check In

CO: Check Out

GUI: Graphical User Interface

SQL: Structured Query Language

List of Tables

WELCOME	Options for CI
	Show Guest List
	CO
	Info of any Guest
	Exit

Check IN Table:

Check In	Name
	Address
	Contact No
	No of Days of Stay
	Choosing Room • Deluxe • Full Deluxe • General • Joint
	Payment Method • Credit/Debit Card • By Cash

Checkout Table:

Check Out	By Entering Room No

Summary

This hotel management system is developed for hotels those are using manual system to handle the hotel processes. Administrator can easily maintain daily updates in the hotel records.
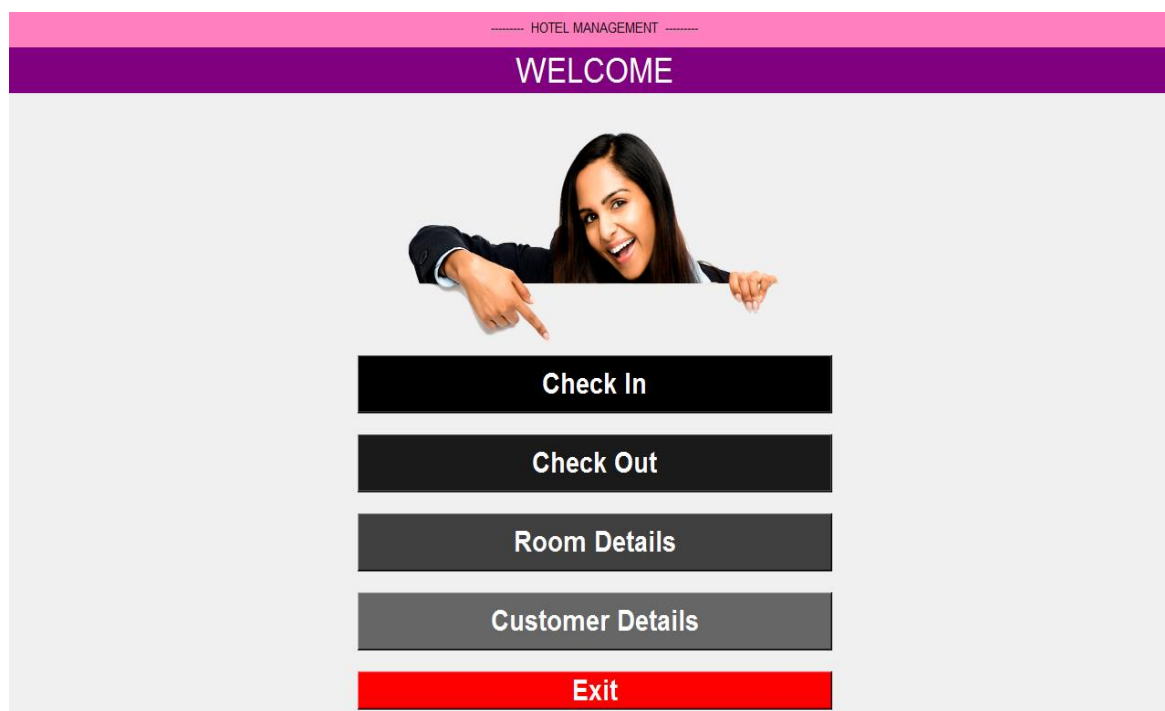
This system will automate the major operations of the hotel. Administrator can access to all system functionalities without any restrictions. Administrator is must be an authorized user. The main aim of the entire activity is to automate the process of day to day activities of Hotel. The Reservation System is to keep track in room and hall reservation and check availability. Using this system user can check which room is reserved and which room is available. He can reserve room from reservation module. The Room Management System is for manage all room types room services.

Main objective is to computerize all the activity of the hotel like Admission of a New Customer, assign a room according to customer's demand, checkout of a customer and releasing the room and finally compute the bill etc. Using this system, you can manage check in and check out process easily. At check in, you can easily check the availability of rooms in the hotel. And at check-out you can easily generate the total bill.

Review of Literature

This project includes various forms such as :

➢ **Welcome**: This is the interface which appears at the start. It includes Check in, Check out, Room Details, Customer Details and Exit option. One can select the suitable option according to their choice and can further navigate to the other forms.

➢ **Check in:** Check in form basically takes all the information from the user such as their name, mobile number, E-Mail ID, their address, And the room no according to the vacancy available. The user is also asked about the no of people and days of their stay and the type of room preferred by them. Accordingly the receipt is made.

--------- CUSTOMER CHECK IN FORM ---------

First Name :

Last Name :

Mobile Number : 0

Email Address :

Address :

Room Number : 0   Vacancy

Number of Days : 1

Room Type : ⦿ AC Room   ◯ Non-AC Room

Number of People : 1

SUBMIT

➢ **Customer Details:** All the details provided by the customer can be seen by providing their name and room no allotted to the customer.

--------- CUSTOMER DETAILS ---------

First Name :

Room Number : 0

SEARCH

➢ **Room Details:** The details of the room can be seen by entering the room number.

➢ **Check Out:** Checkout can be done by providing name and details of the room no. After checkout the room becomes vacant again.

Candidate Roles:

- **AYUSH GUPTA**

  - ✓ Handled all the requirements and risk related

    logics

  - ✓ Decided flow of project and all related

    algorithm

- **PRIYANSHU TRIPATHI**

  - ✓ Handled all the user interface related

    programming

  - ✓ Gave GUI to the project by using tkinter

- **UTKARSH SHAHI**

  - ✓ Handled all the database part how information

    going to store in disc

  - ✓ Also prepared detailed report on project

Project Contribution:

➤ Material and Methods:

Tech stack used for our project includes:

- Frontend (GUI) : Tkinter[1] (Python library)

- Databases: MySQL

➤ Results:

Currently in hotel all the work done manually. When a guest makes a

reservation, all the reservation details (including guest details) are

recorded in a hotel register. At the time of checkout of customer,

calculations of bills and inventory items are done manually too. Doing

all the work manually and storing information on register takes much

time and wastes much precious man hours. Manually calculation of bill is

also error prone. If management want any old information like room

record or reservation details, then finding old records is very tiresome

task and it takes a lot of time to find records form old files.

But after this automatic Hotel Management system it will be really easy

to calculate bill and to keel the track of all the records of the customer.

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[1]The `tkinter` package ("Tk interface") is the standard Python interface to the Tk GUI toolkit.

➢ Discussion:

Recommendations: Can work more on improving GUI to make it more efficient, user friendly and interactive.

Bibliography:

- ➢ Book: Python Crash Course
- ➢ W3schools.com
- ➢ Python.com