# COMPUTER REPORT

Hotel Management

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**CLASS:XII** 

SCHOOL: Geethanjali Vidyalaya

ACADEMIC YEAR: 2022-23

## <u>CERTIFICATE</u> GEETHANJALI VIDYALAYA



This is to certify that the following is a bonafide record of the computer project work done by Aanand Sanjenbam of Geethanjali Vidyalaya, under the guidance of Mrs. Seena
(Subject Teacher), Board of Secondary
Education (CBSE) during the academic year
2022-23

**EXTERNAL EXAMINER** 

**INTERNAL EXAMINER** 

**INSTITUTION STAMP** 

## **ACKNOWLEDGEMENT**

This project would not have been possible without proper guidance and support of Mrs. Seena, my Computer teacher. I am highly indebted to her for sharing her indispensable time and knowledge to make this project a success.

I would also like to express my gratitude towards the school management and The Principal for providing me with best of the facilities and environment and giving such wonderful opportunities to shine.

Finally, I want to thank my classmates who have willingly helped me in every possible manner.

## **INDEX**

S No.	CONTENTS	Page No.
1.	INTRODUCTION	5
2.	SYSTEM REQUIREMENTS	7
3.	SOURCE CODE	8
4.	OUTPUT	12
5.	REFERNCES	15

## INTRODUCTION

## Title of the project:

### **Hotel Management System**

## Prologue:

The main objective of this project is to provide the user an interface to book a hotel reservation. The program deals with storing the data of all hotel rooms.

The purpose of this project is the create an application program interface for management to access and update attributes of hotel rooms

The program also stores the details of any guests occupying a room in a database table.

#### **Team Members:**

- Aanand Sanjenbam
- Abhinav Singh
- Mann

#### Team details:

• The project "Hotel Management System" has been designed and developed by the 3 mentioned individuals. The various components of the project were shared between the members.

#### Limitations:

None

## SYSTEM REQUIREMENTS

#### Recommended system requirements:

• Processor: Intel Core i3

• Disk Space: 2 to 4 GB

• OS: Windows 10

Python version: 3.x.x

MYSQL Command line client: 5.5 or higher

#### Minimum system requirements:

Processor: Intel Atom or Intel i3

• Disk Space: 1 GB

• OS: Windows 7

• Python version: 2.7.x

#### Prerequisites before running the code:

- Python must be installed and, in the system's PATH
- MYSQL command line client is installed

## SOURCE CODE

#### 1. main.py

```
sys import byteorder
tkinter import *
      tkinter font as font
    PIL import Image, ImageTk
rt database as db
Constants import *
tkinter import messagebox
def messageboxy(floor=None):
        messagebox.showinfo(title = "Title", message="Success!")
def init_info_widgets(room_num, floor, status):
    icon=booking_icon
    lblfloor1= Label(info_frame, text=f"Room Number: {room_num}
                                                                             ", font="Helvetica 15 bold", bg=COLOUR_A, fg=COLOUR_B)
    lblfloor1.place(x=10, y=200)
    lblfloor2= Label(info_frame, text=f"Room Number: {floor}", font="Helvetica 15 bold", tmage=display1, bg=INFOO_FRAME\_COLOUR)
    lblfloor2.place(x=10, y=500)
   def get_room_data(btn_text):
   data = db.fetchdata(int(btn_text.strip()))[0]
    init_info_widgets(data[0], data[1], data[2])
def place_room_icons(floor_no, row, col):
       y in range(row):
         or x in range(col):
  btn_text = f"{floor_no+i}"
  if db.check_occ(int(btn_text)):
                icon-occupied icon
               icon=vacant icon
            Button(option_frame, font=myFont, image=icon, borderwidth=0, height=100, width=150, text=btn_text, compound="center",
   floor_no = floor*100
row, col = 3, 4
```

 $\dot{\lambda}$ 

```
place_room_icons(floor_no, row, col)
    lblfloor1= Label(option_frame, text=f"Floor {floor}", font="Helvetica 14 bold", bg=MID_FRAME_COLOUR)
    mainlbl1.place(x=50, y=10)
def arrowchecker():
          floor
    arrowbtnright.place(relx= 0.7, y=625)
    arrowbtnleft.place(relx= 0.56, y=625)
    if floor==1:
       arrowbtnleft['state']= DISABLED
    elif floor==floors:
       arrowbtnright['state'] = DISABLED
       arrowbtnright['state'] = ACTIVE
arrowbtnleft['state']= ACTIVE
def floorup():
          floor
    floor+=1
    floorscreen(floor)
arrowchecker()
def floordown():
         l floor
    floor-=1
    floorscreen(floor)
    arrowchecker()
iconsize = (150, 120)
arrowsize= (40,35)
floor=1
floors=4
win.geometry("1000x700+500+150")
myFont = font.Font(size=20, family="Adobe Heiti Std R", weight="bold")
myFont2 = font.Font(size=10, family="Adobe Heiti Std R", weight="bold")
```

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```
info_frame= Frame(win, bg=SIDEBAR_COLOUR)
info_frame.place(x=0, y=0, relwidth=0.3, relheight=1)

option_frame.Frame(bg=OPTION_FRAME_COLOUR)

option_frame.place(relx=0.3, rely= 0, relheight=1, relwidth=0.7)

colorframe1= Frame(option_frame, bg=MID_FRAME_COLOUR)

colorframe1.place(height=50, relwidth=1)

colorframe2= Frame(option_frame, bg=MID_FRAME_COLOUR)
  colorframe2= Frame(option_frame, bg= MID_FRAME_COLOUR)
  colorframe2.place(y= 155, height=95, rel
  colorframe3= Frame(option_frame, bg= MID_FRAME_COLOUR)
  colorframe3.place(y= 355, height=95, relwidth=1)
colorframe4= Frame(option_frame, bg= MID_FRAME_COLOUR)
  colorframe4.place(y= 555, height=200, relwidth=1)
  vacant_icon= PhotoImage(file= r"UI Elements\vacant_icon.png")
  occupied_icon= PhotoImage(file= r'UI Elements\occupied_icon.png')
booking_icon= PhotoImage(file= r'UI Elements\booking.png')
 right_icon=PhotoImage(file=r"UI Elements\right_arrow.png")
left_icon=PhotoImage(file=r"UI Elements\left_arrow.png")
display1=PhotoImage(file=r"UI Elements\Display1.png")
  arrowbtnleft= \\ \underline{Button(height=30, width=50, image=left\_icon, borderwidth=0, command=lambda: floordown(), bg=MID\_FRAME\_COLOUR)} \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ arrowbtnright= \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ \underline{Button(height=30, width=50, image=right\_icon, borderwidth=0, command=lambda: floorup(), bg=MID\_FRAME\_COLOUR)} \\ \\ \underline{Button(height=30, width=50, image=right)} \\ \\ \underline{Button(hei
  arrowchecker()
  win.mainloop()
```

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#### 2. constants.py

```
© Constants.py Constants.py\...

from PIL import Image, ImageIk

from tkinter import *

SIDEBAR_COLOUR="#394358"

OPTION_FRAME_COLOUR="#eccfad"

MID_FRAME_COLOUR="#ebe5ca"

COLOUR_A="#262626"

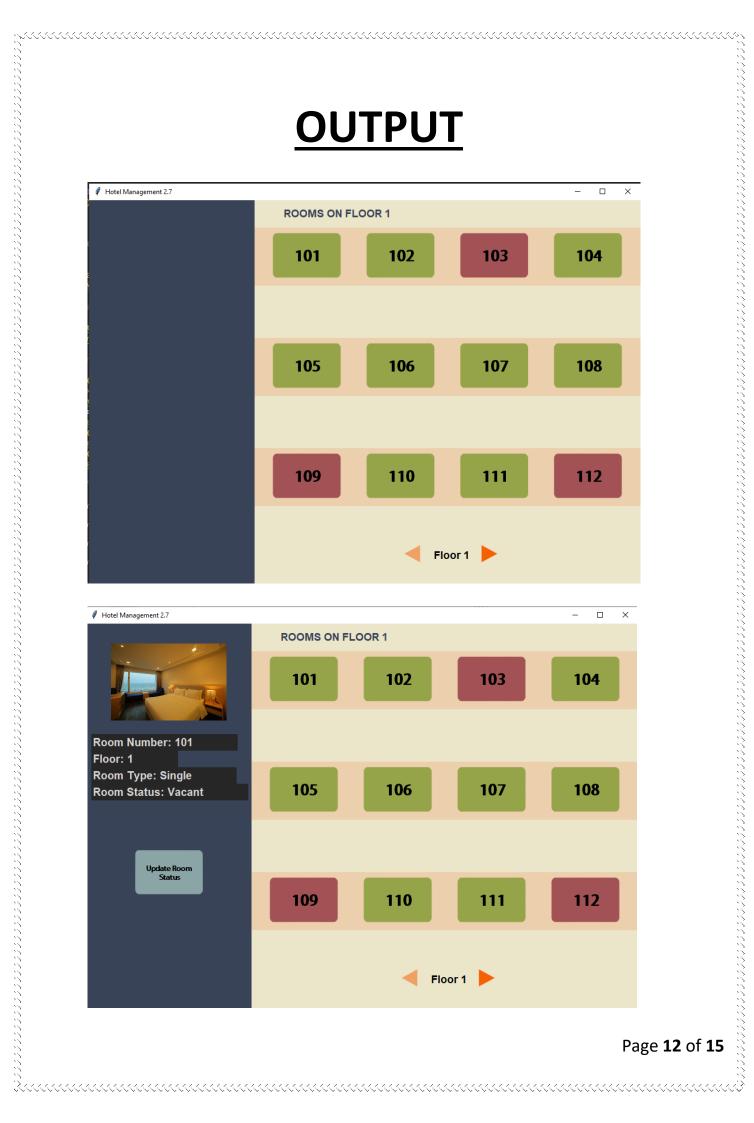
COLOUR_B="#d6d3d1"

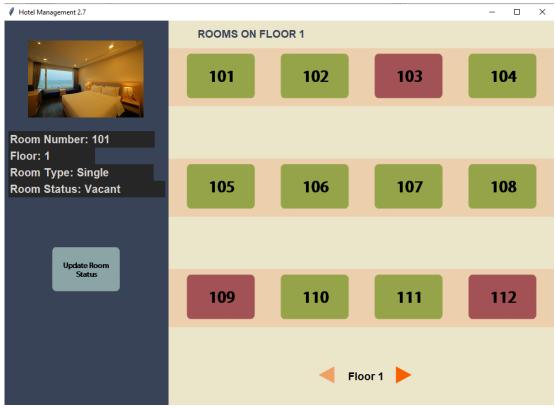
iconsize = (150, 120)
```

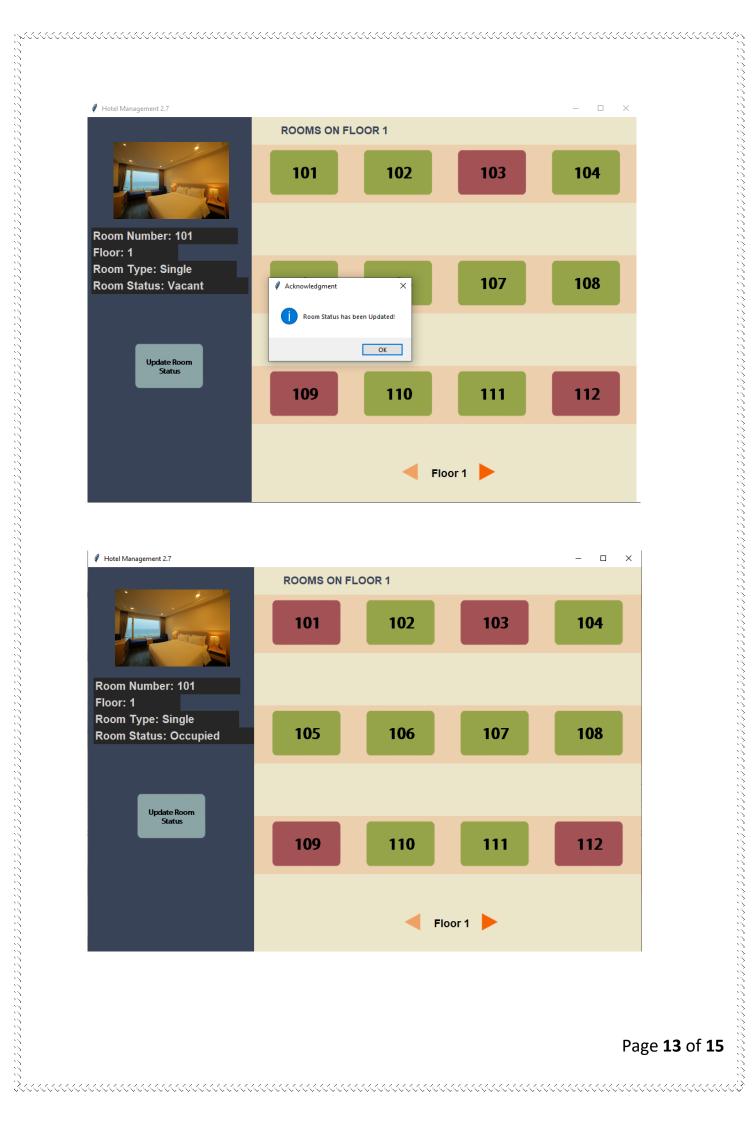
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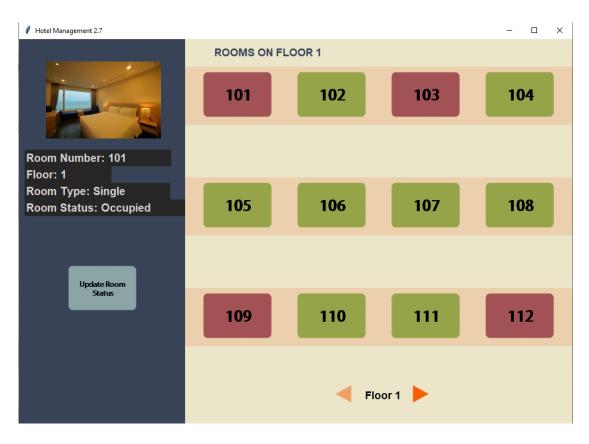
#### 3. db.py

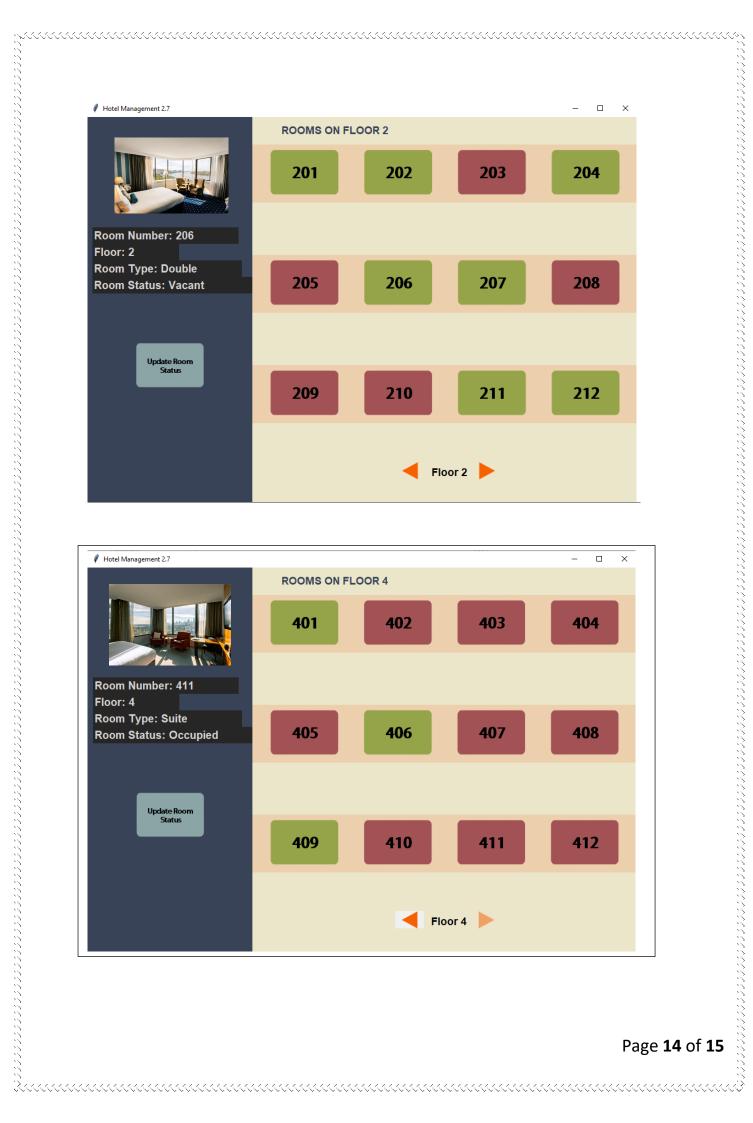
```
⊳ ∨ m × •
database.py database.py\ 😭 check_occ
      rt <u>mysql.connector</u> as <u>sqltor</u> rt <u>random</u> as <u>r</u>
  mycon=sqltor.connect(host="localhost", user="root", passwd="Password@123", database="hotelmgmt")
  cursor.execute("CREATE TABLE if not exists attribute table(hotel_num int primary key, floor int, room_type varchar(250))")
cursor.execute("CREATE TABLE if not exists transaction_table(hotel_num int primary key, occupancy_status int)")
  def fetchdata(btn_num):
    cursor.execute(f"select * from attribute table where hotel num = {btn num}")
  return int(occupied)
def updatestatus(room_num):
      occupied= check_occ(room_num)
      if occupied == 0:
         cursor.execute(f"update transaction_table set occupancy_status = 1 where hotel_num={room_num}")
         __name__=="__main__":
         for j in range (1,5):
for i in range (j
                     range (j*100+1, j*100+13):
                 mycon.commit()
            sqltor.errors.IntegrityError:
             j in range (1,5):
               for i in range (j*100+1, j*100+13):
if j*100+1<=i<=j*100+4:
                     type="Single"
                 elif j*100+5<=i<=j*100+8:
type="Double"
                    type="Suite"
                 cursor.execute(f"insert into attribute_table values({i}, {int(str(i)[0])}, '{type}' )")
                 mycon.commit()
          pt sqltor.errors.IntegrityError:
```

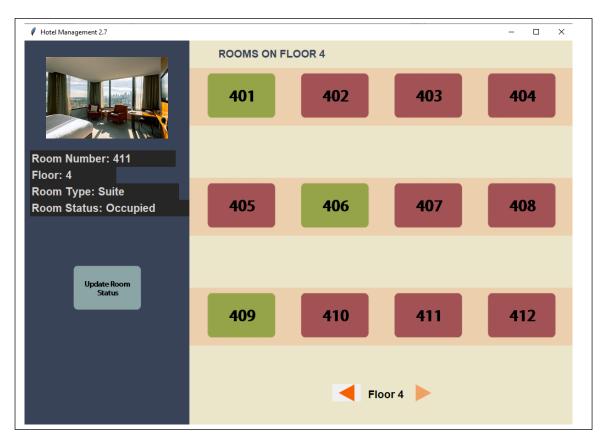






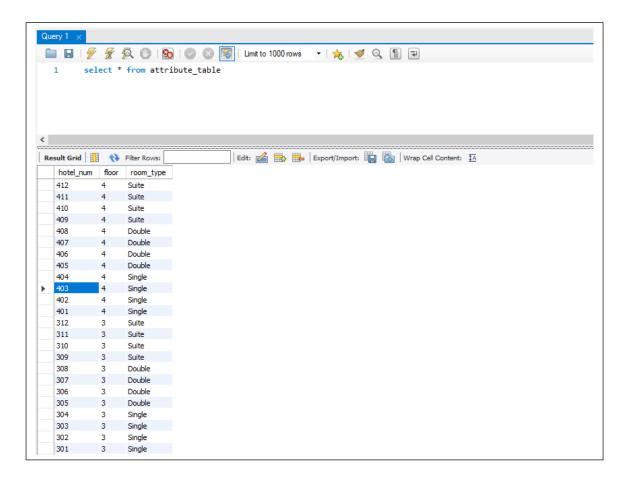




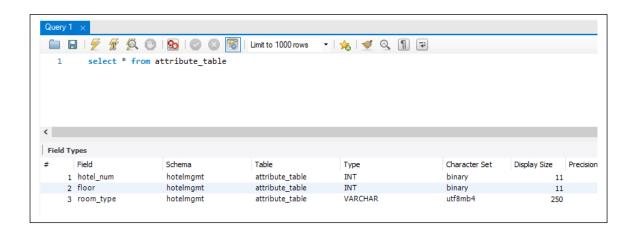


## **Data Design**

#### 1. Sample Output



#### 2. Table structure



## REFERENCES

- Google
- Computer science with Sumita Aurora