

# S.B.O.A. SCHOOL AND JUNIOR COLLEGE

Anna Nagar Western Extension, Chennai - 600 101

# **PROJECT REPORT**

2020 - 2021

Standard : Sec:

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Name

Title of the Project :

# BONAFIDE CERTIFICATE

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# PROJECT: HOTEL MANAGEMENT

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## **ACKNOWLEDGEMENTS**

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I would like to thank our principal Mr.Manoharan for giving us this golden opportunity to enhance our knowledge.

I would like to thank my family and friends who helped me in the completion of this project.

Also a big shout out to my group members, together we improved each other's skills and knowledge.

This project served as wonderful opportunity to increase our knowledge in python as well as to know more about computers.

This project totally put out our skill sets to the testing and I'm glad to say that we succeeded.

# **PROJECT DESCRIPTION:**

This python project is a <u>GRAPHICAL USER INTERFACE(GUI)</u> based on hotel management with the name of the hotel taken as: '**HOTEL MAJESTIC**'.

This project consists of facilities like:

- > CHECKIN
- > CHECKOUT
- > RESTAURANT
- > LAUNDRY
- > ROOM SERVICE
- > EMPLOYEES
- > PARKING

And a special button which can be used to reset the database. With each of the functionality being a separate python file.

The project has a main screen which acts like to menu to all the other service screen.

Each service is provided through a separate screen with the necessary details to be collected from the customer.

This project aims to make all the processes very simple and the data collected is saved in the Data base with appropriate popup messages to notify the customer about the status of their booking.

Each screen also contains all the details about pricing (with all the pricing predefined) within just a click of the mouse.

Bills are generated for the necessary services are saved in specific folders.

# **WORKING ENVIRONMENT:**

## **Software Used:**

- Python v.3.7.9
- Microsoft Visual Studio Code

## **Hardware Used:**

- Intel core—i5 4570
- CPU @ 3.20Ghz
- 16 GB RAM

# **DATA DICTIONARY:**

## **FUNCTIONS USED:**

### **HOTEL(MAIN SCREEN)**

- 1. check\_pwd() checks if the entered password matches the administrator's password
- 2. clear\_data() resets all the data in the SQL table

#### **CHECKIN**

- 1. get\_ids() returns a list of all customer ID's from the customer history table
- 2. check\_date() checks if the selected date is valid
- 3. common\_values() returns a list of common elements from two lists
- 4. get\_rooms() returns a list of all available rooms
- 5. generate-id() generates a random unique ID
- 6. reset() resets all the variables and resets the screen
- 7. confirm() gets all the entered details and asks us to select an available room
- 8. submit() updates the customer table with all the entered details

#### **CHECKOUT**

- 1. get\_ids() returns a list of all customer ID's from the customer history table
- 2. check\_date() checks if the selected date is valid

- 3. common\_values() returns a list of common elements from two lists
- 4. get\_rooms() returns a list of all available rooms
- 5. generate-id() generates a random unique ID
- 6. reset() resets all the variables and resets the screen
- 7. confirm() gets all the entered details and asks us to select an available room
- 8. submit() updates the customer table with all the entered details

#### **LAUNDRY**

- 1. menu()- to display the menu of the laundry
- 2. get\_rooms()- to select the rooms that are occupied
- 3. laundry()- operations related to laundry
- 4. submit()- saving and taking order
- 5. reset()- resetting the data imputed from the guest

#### **PARKING**

- 1. rooms\_slots() returns the available rooms and slots
- 2. submit() updates the parking table based

#### **ROOM SERVICE**

- 1. get rooms()- to get room number from customers
- 2. menu()-to display menu of restaurant
- 3. submit()-saving and taking order for the customer
- 4. roomvariable.get()-to select the room no.
- 5. service.get()-to get/select the service needed
- 6. cust\_id.get()-to get customer id
- 7. localtime()-to get the local time of the place
- 8. reset()-resetting the data inputed from customer

- 9. roomservice()-to add column names
- 10. get\_rooms()-to get rooms available for which the customer asks

#### **RESTAURANT**

- 1. findcustomertype() to find which customer it is hotelguest or restaurant guest
- 2. menu()- to display the menu of the restaurant
- 3. Restaurantguest()- operations related to restaurantguest
- 4. Hotelguest()- operations related to hotelguest
- 5. submit1()- saving and taking order for a restaurant guest
- 6. reset1()- resetting the data inputed from the restaurant guest
- 7. previous1()- going to selection screen of restaurantguest or hotelguest
- 8. submit2()- saving and taking order for a hotelguest
- 9. reset2()- resetting the data imputed from the hotelguest
- 10. previous2()- going to selection screen of restaurantguest or hotelguest
- 11. get\_ids()- to select the booking ids that are taken
- 12. generate\_id()- to generate booking ids

#### **EMPLOYEES**

1. employees()- function to execute a treeview of employees

## **VARIABLES USED:**

#### HOTEL

1. main\_screen – The front screen containing all the buttons

#### **CHECKIN**

- 1. customerId The random generated customer ID
- 2. c\_name Stored the name of the customer
- 3. occupants\_no Stores the entered number of occupants
- 4. c\_phNo Stores the entered phone number of the customer
- 5. list\_of\_ids It's a list containing all the customer ID's from customer history
- 6. room\_type\_selected Stores the type of the room selected by the customer
- 7. room\_selected Stores the room number selected from the available rooms

#### **CHECKOUT**

- 1. room\_selected Room to be checked out
- 2. laundry\_total Stores the price for all the laundry services
- 3. restaurant\_total Stores the price for all the restaurant services
- 4. checkin\_date Stores the date of Check-In
- 5. days\_of\_stay Stores the number of days of stay
- 6. room total Stores the cost for stay at the room
- 7. parking\_total Stores the cost for the parking services
- 8. total\_total Stores the total amount to be paid for the stay at the hotel

#### **LAUNDRY**

- 1. cust\_id customer id taken in the entry box
- 2. roomvariable variable for roomno selected in option menu
- 3. shirtvariable variable for no.of shirts selected in option menu
- 4. pantvariable variable for no.of pants selected in option menu
- 5. othervariable variable for no.of others selected in option menu
- 6. correct\_id correct customer id present in the database

#### RESTAURANT

- 1. restaurant\_label Title label("RESTAURANT")
- 2. cust Label("Customer type")
- 3. menubutton Button("MENU")
- 4. confirm\_button Button("CONFIRM")
- 5. mealdropdown OptionMenu for type of meal
- 6. meal variable for meal in Optionmenu
- 7. meallist list of types of meals
- 8. price\_breakfast- 200\*(no of veg adults)+100\*(no of veg children)+250\*(no of nonvegadults)+150\*(no of nonveg children)
- 9. price\_lunch- 250\*(no of veg adults)+150\*(no of veg children)+325\*(no of nonvegadults)+200\*(no of nonveg children)
- 10. price\_dinner- 275\*(no of veg adults)+200\*(no of veg children)+350\*(no of nonvegadults)+250\*(no of nonveg children)

#### ROOMSERVICE

- 1. serviceneeded-to get the service needed
- 2. submit\_button-Button("SUBMIT")
- 3. reset\_button-Button("RESET")
- 4. menu button-Button("MENU")
- 5. time-to get the time
- 6. response-to get the response

- 7. service-to get the service
- 8. cust\_id-to generate customer id
- 9. identry-to enter id details
- 10. roomvariable-to get room details
- 11. available\_rooms-to get the no of rooms available
- 12. roomservice\_screen-option of room service to generate
- 13. Roomno label- to get specific room no
- 14. Roomnooption-option to choose room no
- 15. Idlabel-to label the id no
- 16. Servicelabel- option to label the service needed
- 17. Services elected-option to see the selected service

### **EMPLOYEES**

- 1. window Screen showing employee details
- 2. treev Treeview object

## **MODULES / LIBRARIES USED:**

- 1. tkinter
- 2. mysql.connector
- 3. random
- 4. os
- 5. time
- 6. datetime

## **ALGORITHM:**

### **CHECK-IN:**

- STEP -1: Fill all the credentials and also select the room type
- STEP -2: After filling all the credentials press confirm which will ask you to select a vacant room based on the selected room type
- STEP -3: Press 'RESET' to clear all the data entered in the entry bar and sets the day, month and year to 0
- STEP -4: After selecting the room type press submit which gets all the entered credentials and add them to the SQL table

## **CHECK-OUT:**

- STEP -1: Enter the room number and the check-out date and press generate bill which generates a check-out bill with the total amount to be paid based on the number of days stayed, laundry, parking, room service and restaurant services.
- STEP -2: Once the bill is generated you can press 'Restaurant orders' or 'Laundry Orders' to review all your restaurant and laundry service received
- STEP -3: After reviewing all the details press check-out which generates a bill and saves it in a folder to be printed and updates the SQL table

#### **RESTAURANT:**

- STEP -1: Press 'MENU' for information about pricing
- STEP -2: Select the type of guest hotel or restaurant guest and the type of meal (Breakfast, Lunch, Dinner) and press 'CONFIRM'.
- STEP -3: Display the appropriate entries for the selection.
- STEP -4: If the customer is a hotel guest, Details like Room no, customer id, no of veg(adults), no of veg(children), no of nonveg(adults), no of nonveg(children) are collected.
- STEP -5: After pressing 'SUBMIT', check whether the customer id matches with the room no. If it doesn't display an error otherwise add all the details to the restaurant table with date and time.
- STEP -6: Press 'RESET' to reset all the entries to 0 and 'PREVIOUS' to go back to selection screen.
- STEP -7: If the customer is a restaurant guest, Details like no of veg(adults), no of veg(children), no of nonveg(adults), no of nonveg(children) are collected.
- STEP -8: After pressing 'SUBMIT', show information box to confirm the order and cost. After confirmation generate a unique booking id and add all the details to the restaurant table with date and time. Generate a bill and save it in a bill folder.
- STEP -9: Press 'RESET' to reset all the entries to 0 and 'PREVIOUS' to go back to selection screen.

#### LAUNDRY:

- STEP -1: Press 'MENU' for information about pricing.
- STEP -2: Display entries for data to be retrieved from the customer.
- STEP -3: Details like Room no, customer id, no of pants, no of shirts, no of others are collected.
- STEP -4: After pressing 'SUBMIT', check whether the entered customer id matches with the room no, if it doesn't show error otherwise add the details to the laundry table with date and time.
- STEP -5: Press 'RESET' to set all the entries to 0.

### **ROOMSERVICE:**

- STEP -1: Press 'MENU' for information about pricing.
- STEP -2: Display entries for data to be retrieved from the customer.
- STEP -3: Details like Room no, customer id, service required are collected.
- STEP -4: After pressing 'SUBMIT', check whether the entered customer id matches with the room no, if it doesn't show error otherwise add the details to the room service table with date and time.
- STEP -5: Press 'RESET' to set all the entries to 0.

### **PARKING:**

STEP -1: Display entries for data to be retrieved from the customer.

STEP -3: Details like Room no, car type, license plate are collected and a parking slot is selected from the available parking slot.

STEP -4: Add the details to the car service table and the selected parking slot is marked as unavailable.

### **EMPLOYEES:**

STEP -1: Retrieve data from the employees table based on the column 'SHIFT'.

STEP -2: Check the current time and display the details like employee name, employee id, duty, date of join who are working in the current shift.

STEP -3: A table with the employee details are displayed.

# **SOURCE CODE:**

## **MAIN SCREEN:**

```
from tkinter import *
from tkinter import messagebox
import mysql.connector
import Checkin
import laundry
import Checkout
import Restaurant
import parking
import employees
import roomservice
main_screen = Tk()
main_screen.config(bg = '#12232E')
main_screen.geometry('600x700')
main_screen.title('Hotel')
main_screen.iconbitmap('hotel.ico')
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
date_selected = StringVar()
month_selected = StringVar()
year_selected = StringVar()
```

```
Label(text = 'HOTEL MAJESTIC', padx = 20, font = ("bahnschrift", 20, "bold"), bg = '#12232E',
fg = \text{'white'}).grid(row = 0, column = 0, columnspan = 2)
def check_pwd(pwd_entered, password, pwd):
  if pwd_entered == password:
    for i in [x for x in range(26)]:
      statement = 'update customers set NAME = NULL ,OCCUPANTS = NULL ,CHECK_IN
= NULL, CUSTOMER ID = NULL, PH NUMBER = NULL, ROOM TYPE = NULL,
STATUS = "FREE" where ROOM_NO = ' + str(i+100)
      cursor.execute(statement)
      connector.commit()
      statement = 'update laundry set SHIRTS = 0, PANTS = 0, OTHERS = 0, TOTAL = 0
where ROOM_NO = ' + str(i+100)
      cursor.execute(statement)
      connector.commit()
      statement = 'delete from restaurant'
      cursor.execute(statement)
      connector.commit()
      statement = 'delete from customer_history'
      cursor.execute(statement)
      connector.commit()
      statement = 'update parking set CAR_TYPE = NULL, L_PLATE = NULL, P_SLOT =
NULL, STATUS = NULL WHERE ROOM NO = ' + str(i+100)
      cursor.execute(statement)
      connector.commit()
      statement = 'delete from laundry history'
      cursor.execute(statement)
      connector.commit()
    pwd.destroy()
```

```
Checkin.list_of_ids = []
    messagebox.showinfo(", 'Table Resetted')
  else:
    messagebox.showwarning(", 'Wrong Password')
def clear_data():
  password = 'rt'
  pwd = Toplevel()
  pwd.config(bg = '#12232E')
  pwd_label = Label(pwd, text = 'Enter the password', padx = 20, font = ("Times", 13, "bold"),
bg = '#12232E', fg = 'white')
  pwd_label.pack()
  pwd entered = Entry(pwd, show = '*')
  pwd_entered.pack()
  pwd button = Button(pwd, text = 'Enter', command = lambda: check pwd(pwd entered.get(),
password, pwd))
  pwd_button.pack()
                -----Buttons-----
Button_checkin = Button(main_screen, text='Check-In', font = ("times", 13, "italic"), relief =
RIDGE, padx = 20, pady = 15, bg = '#12232E', fg = 'white', activebackground = 'cornflower
blue', activeforeground = 'white', command = lambda: Checkin.checkin(date_selected,
month_selected, year_selected))
Button_checkout = Button(main_screen, text='Check-Out', font = ("times", 13, "italic"), relief =
RIDGE, padx = 17, pady = 15, bg = '#12232E', fg = 'white', activebackground = 'cornflower
blue', activeforeground = 'white', command = Checkout.Checkout)
Button_laundry = Button(main_screen, text='Laundry', font = ("times", 13, "italic"), relief =
RIDGE, padx = 24, pady = 15, bg = '#12232E', fg = 'white', activebackground = 'cornflower
blue', activeforeground = 'white', command = laundry.laundry)
```

Button\_parking = Button(main\_screen, text='Parking', font = ("times", 13, "italic"), relief = RIDGE, padx = 24, pady = 15, bg = '#12232E', fg = 'white', activebackground = 'cornflower blue', activeforeground = 'white', command = parking.parking)

Button\_employees = Button(main\_screen, text='Employees', font = ("times", 13, "italic"), relief = RIDGE, padx = 17, pady = 15, bg = '#12232E', fg = 'white', activebackground = 'cornflower blue', activeforeground = 'white', command = employees.employees)

Button\_restaurant = Button(main\_screen, text='Restaurant', font = ("times", 13, "italic"), relief = RIDGE, padx = 17, pady = 15, bg = '#12232E', fg = 'white', activebackground = 'cornflower blue', activeforeground = 'white', command = Restaurant.restaurant)

reset\_button = Button(main\_screen, text = 'Reset Data', font = ("times", 13, "italic"), relief = RIDGE, bg = '#12232E', fg = 'white', padx = 17, pady = 15, command = clear\_data)

room\_service\_button = Button(main\_screen, text = 'Room Service', font = ("times", 13, "italic"), relief = RIDGE, bg = '#12232E', fg = 'white', padx = 17, pady = 15, command = roomservice.roomservice)

#-----Placing Buttons-----

Button\_checkin.grid(row = 1, column = 0, padx = 90, pady = (90,35))

Button\_checkout.grid(row = 1, column = 1, padx = 90, pady = (90,35))

Button\_laundry.grid(row = 2, column = 0, padx = 90, pady = 35)

Button\_parking.grid(row = 2, column = 1, padx = 90, pady = 35)

room service button.grid(row = 3, column = 0, padx = 90, pady = 35)

Button restaurant.grid(row = 3, column = 1, padx = 90, pady = 35)

Button\_employees.grid(row = 4, column = 0, padx = 90, pady = 35)

 $reset\_button.grid(row = 4, column = 1, padx = 90, pady = 35)$ 

main\_screen.mainloop()

## **CHECKIN:**

```
import mysql.connector
from tkinter import *
import datetime
import random
from tkinter import messagebox
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
class labels:
  def __init__(self, screen, t, x, y):
     self = Label(screen, text = t, bg = 'wheat2', fg = 'black', font = 'bahnschrift 15 bold')
     self.place(x = x, y = y)
def get_ids():
  cursor.execute('select CUSTOMER_ID from customer_history where CUSTOMER_ID IS
NOT NULL')
  available_ids = [i[0] for i in cursor]
  return available_ids
def check_date(date, month, year):
  try:
     datetime.datetime(int(year), int(month), int(date))
     return True
  except ValueError:
     return False
```

```
def common_values(r,l):
  k = []
  for x in r:
     if x in 1:
       k.append(x)
  return k
def get_rooms(t):
  statement = 'select ROOM_NO from customers where STATUS = "FREE"'
  cursor.execute(statement)
  r = [i[0] \text{ for } i \text{ in cursor}]
  if t == 'PREMIUM':
     1 = common_values(r, [i for i in range(120,126)])
  else:
     1 = common_values(r, [i for i in range(100, 120)])
  return 1
def checkin(date_selected, month_selected, year_selected):
  customerId = StringVar()
  c_name = StringVar()
  occupants_no = StringVar()
  c_phNo = StringVar()
  checkin_screen = Toplevel()
  checkin_screen.config(bg = 'wheat2')
  checkin_screen.geometry('600x600')
  checkin_screen.title('Check-In')
```

```
list_of_ids = get_ids()
room_selected = IntVar()
room_type_selected = StringVar()
checkin_screen.iconbitmap('counter.ico')
def generate_id():
  s="1234567890"
  c_{id} = ".join(random.sample('123456789',1)) + ".join(random.sample(s,4))
  if c_id not in list_of_ids:
    list_of_ids.append(c_id)
    customerId.set(c_id)
  else:
    generate_id()
def reset():
  checkin_screen.destroy()
  date_selected = IntVar()
  month_selected = IntVar()
  year_selected = IntVar()
  checkin(date_selected, month_selected, year_selected)
def submit():
  customer_Id = customerId.get()
  name = c_name.get()
  occupants = occupants_no.get()
  room = room_selected.get()
  phNo = c_phNo.get()
  date = date_selected.get()
```

```
month = month_selected.get()
    year = year_selected.get()
    if len(date) == 1:
       date = '0' + date
    if len(month) == 1:
       month = '0' + month
    statement = 'update customers set NAME = "' + str(name) + "',OCCUPANTS = ' +
str(occupants) + ',CHECK_IN = "' + str(year) + '/' + str(month) + '/' + str(date) + "..."
",CUSTOMER_ID = ' + str(customer_Id) + ',PH_NUMBER = ' + str(phNo) + ',ROOM_TYPE
= "' + str(room_type_selected.get()) + "", STATUS = "OCCUPIED" where ROOM_NO = ' +
str(room)
    try:
       cursor.execute(statement)
       connector.commit()
       statement = 'update parking set status = "OCCUPIED" where ROOM_NO = ' +
str(room selected.get())
       cursor.execute(statement)
       connector.commit()
       checkin_screen.destroy()
       messagebox.showinfo('Check-In','Entry Added')
       checkin_screen.destroy()
    except:
       messagebox.showerror('Error', 'Enter proper credentials ')
  def confirm(self, t):
    customer_Id = customerId.get()
    name = c_name.get()
    occupants = occupants_no.get()
```

```
room = room_selected.get()
phNo = c_phNo.get()
date = date_selected.get()
month = month_selected.get()
year = year_selected.get()
if check_date(date, month, year) == False:
  year_selected.set(0)
  month_selected.set(0)
  date_selected.set(0)
  messagebox.showerror('Error', 'Enter a valid date')
else:
  l = get\_rooms(t)
  customerId_entry.config(state = DISABLED)
  name_entry.config(state = DISABLED)
  room_type.config(state = DISABLED)
  phNo_entry.config(state = DISABLED)
  occupants_entry.config(state = DISABLED)
  date_option.config(state = DISABLED)
  month_option.config(state = DISABLED)
  year_option.config(state = DISABLED)
  room_list = OptionMenu(checkin_screen, room_selected, *l)
  room_list.place(x = 500, y = 300-30)
  room_selected.set(l[0])
  self.destroy()
```

```
submit button = Button(checkin screen, text = 'Submit', bg = 'wheat2', fg = 'black', font
= 'bahnschrift 15 bold', activebackground = 'wheat2', command = submit)
      submit_button.place(x = 80, y = 550-10)
#-----Labels------Labels------
  Label(checkin screen, text = 'CHECK-IN', bg = 'wheat2', fg = 'black', font = 'bahnschrift 25
bold').place(x = 240, y = 20)
  labels(checkin_screen, 'Customer Id', 50, 120)
  labels(checkin_screen, 'Enter your name', 50, 170)
  labels(checkin_screen, 'Number of occupants', 50, 220)
  labels(checkin_screen, 'Select a Room Type', 50, 270)
  labels(checkin_screen, 'Enter your Phone Number', 50, 320)
  labels(checkin_screen, 'Select date', 50, 370)
  labels(checkin_screen, 'Select month', 50, 420)
  labels(checkin_screen, 'Select year', 50, 470)
#------Entries------Entries------
  customerId entry = Entry(checkin screen, font = ("bahnschrift", 13, "bold"), textvariable =
customerId, state = DISABLED)
  customerId_entry.place(x = 400, y = 150-30)
  name_entry = Entry(checkin_screen, font = ("bahnschrift", 13, "bold"), textvariable =
c name)
  name_entry.place(x = 400, y = 200-30)
  occupants entry = Entry(checkin screen, font = ("bahnschrift", 13, "bold"), textvariable =
occupants_no)
  occupants_entry.place(x = 400, y = 250-30)
  phNo_entry = Entry(checkin_screen, font = ("bahnschrift", 13, "bold"), textvariable =
c_phNo)
  phNo_{entry.place}(x = 400, y = 350-30)
#-----Option Menus------
```

```
room_type = OptionMenu(checkin_screen, room_type_selected, 'NORMAL', 'PREMIUM')
  room_type.place(x = 400, y = 270)
  date_option = OptionMenu(checkin_screen, date_selected, *[i for i in range(1, 32)])
  date_option.place(x = 400, y = 400-30)
  month option = OptionMenu(checkin screen, month selected, *[i for i in range(1, 13)])
  month_option.place(x = 400, y = 450-30)
  year_option = OptionMenu(checkin_screen, year_selected, 2020,2021)
  year_option.place(x = 400, y = 500-30)
#-----Buttons-----Buttons-----
  confirm_button = Button(checkin_screen, text = 'Confirm', bg = 'wheat2', fg = 'black', font =
'bahnschrift 15 bold', activebackground = 'wheat2', command =
lambda:confirm(confirm_button, room_type_selected.get()))
  confirm_button.place(x = 80, y = 550-10)
  reset_button = Button(checkin_screen, text = 'Reset', bg = 'wheat2', fg = 'black', font =
'bahnschrift 15 bold', activebackground = 'wheat2', command = reset)
  reset_button.place(x = 400, y = 550-10)
  generate_id()
```

## **CHECKOUT:**

```
from tkinter import *
from tkinter import messagebox
import mysql.connector
from datetime import datetime
from datetime import date
import csv
import Checkin
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
class labels:
  def __init__(self, screen, t, x, y):
    self = Label(screen, text = t, bg = 'cadet blue', fg = 'black', font = 'bahnschrift 15 bold')
    self.place(x = x, y = y)
def check(1):
  if 1 == None:
    return 0
  else:
     return 1
def get_rooms():
  s = 'SELECT ROOM_NO FROM customers WHERE STATUS = "OCCUPIED"'
  cursor.execute(s)
  l = [i[0] \text{ for } i \text{ in cursor}]
  return 1
def validate_date(checkin_date, checkout_date):
```

```
chk_out_date = date(int(checkout_date[:4]), int(checkout_date[5:7]),
int(checkout_date[8:10]))
  date_diff = chk_out_date - checkin_date
  if date_diff.days >= 0:
    return date_diff.days
  else:
    return False
def Checkout():
  if len(get\_rooms()) == 0:
    messagebox.showerror('Error', 'No available rooms')
    return
  checkout_screen = Toplevel()
  checkout_screen.configure(bg = 'cadet blue')
  checkout_screen.geometry('600x600')
  checkout_screen.title('Check-Out')
  room_selected = IntVar()
  date_selected = StringVar()
  month_selected = StringVar()
  year_selected = StringVar()
  checkout_screen.iconbitmap('counter.ico')
  def reset():
    checkout_screen.destroy()
    Checkout()
  def submit(checkout_button, reset_button):
```

```
cursor.execute('SELECT NAME FROM customers where ROOM_NO = ' +
str(room_selected.get()))
    name = [i[0]] for i in cursor[0]
    cursor.execute('SELECT OCCUPANTS FROM customers where ROOM_NO = ' +
str(room_selected.get()))
    occupants = [i[0]] for i in cursor[0]
    cursor.execute('SELECT CUSTOMER_ID FROM customers where ROOM_NO = ' +
str(room_selected.get()))
    customer_Id = [i[0] for i in cursor][0]
    cursor.execute('SELECT PH_NUMBER FROM customers where ROOM_NO = ' +
str(room_selected.get()))
    phNo = check([i[0] for i in cursor][0])
    cursor.execute('SELECT CHECK_IN FROM customers WHERE ROOM_NO = ' +
str(room_selected.get()))
    checkin\_date = [i[0] for i in cursor][0]
    date = date_selected.get()
    month = month_selected.get()
    year = year_selected.get()
    if len(date) == 1:
      date = '0' + date
    if len(month) == 1:
      month = '0' + month
```

```
statement = 'SELECT TOTAL FROM LAUNDRY WHERE ROOM_NO = ' +
str(room_selected.get())
    cursor.execute(statement)
    laundry_total = check([i[0] for i in cursor][0])
    statement = 'SELECT SUM(TOTAL) FROM RESTAURANT WHERE CUSTOMER_ID =
' + str(customer Id)
    cursor.execute(statement)
    restaurant_total = check([i[0] for i in cursor][0])
    statement = 'SELECT SUM(TOTAL) FROM ROOMSERVICE WHERE ROOM_NO = ' +
str(room_selected.get())
    cursor.execute(statement)
    roomservice_total = check([i[0] for i in cursor][0])
    statement = 'SELECT SUM(ADULTS_VEG) FROM RESTAURANT WHERE
CUSTOMER ID = ' + str(customer Id)
    cursor.execute(statement)
    adult_veg = check([i[0] for i in cursor][0])
    statement = 'SELECT SUM(CHILDREN_VEG) FROM RESTAURANT WHERE
CUSTOMER_ID = ' + str(customer_Id)
    cursor.execute(statement)
    child_veg = check([i[0] for i in cursor][0])
    statement = 'SELECT SUM(ADULTS_NONVEG) FROM RESTAURANT WHERE
CUSTOMER_ID = ' + str(customer_Id)
    cursor.execute(statement)
    adult_nv = check([i[0] for i in cursor][0])
```

```
statement = 'SELECT SUM(CHILDREN_NONVEG) FROM RESTAURANT WHERE
CUSTOMER_ID = ' + str(customer_Id)
     cursor.execute(statement)
     child_nv = check([i[0] for i in cursor][0])
     veg = child_veg + adult_veg
     nv = child_nv + adult_nv
     def show_restbill():
       restbill = Toplevel()
       restbill.geometry('400x400')
       restbill.config(bg = 'snow3')
       restbill.title('Restaurant Bill')
       restbill.iconbitmap('buffet.ico')
       change_x = 20
       change_y = 30
       Label(restbill, text = 'Restaurant Bill', font = 'bahnschrift 20 roman', bg = 'snow3').place(x
= 107, y = 10
       Label(restbill, text = 'Veg Adult Meals:', font = 'bahnschrift 15 roman', bg =
'snow3').place(x = 30 + change_x, y = 80 + change_y)
       Label(restbill, text = 'Non-Veg Adult Meals:', font = 'bahnschrift 15 roman', bg =
'snow3').place(x = 30 + change_x, y = 130 + change_y)
       Label(restbill, text = 'Veg Kids Meals:', font = 'bahnschrift 15 roman', bg =
'snow3').place(x = 30 + change_x, y = 180 + change_y)
```

```
Label(restbill, text = 'Non-Veg Kids Meals:', font = 'bahnschrift 15 roman', bg =
'snow3').place(x = 30 + change_x, y = 230 + change_y)
       Label(restbill, text = str(adult_veg), font = 'bahnschrift 15 roman', bg = 'snow3').place(x
= 320 + change_x, y = 80 + change_y
       Label(restbill, text = str(adult_nv), font = 'bahnschrift 15 roman', bg = 'snow3').place(x =
320 + \text{change}_x, y = 130 + \text{change}_y
       Label(restbill, text = str(child_veg), font = 'bahnschrift 15 roman', bg = 'snow3').place(x
= 320 + change_x, y = 180 + change_y
       Label(restbill, text = str(child_nv), font = 'bahnschrift 15 roman', bg = 'snow3').place(x =
320 + \text{change}_x, y = 230 + \text{change}_y
    def show_laundrybill():
       laundrybill = Toplevel()
       laundrybill.geometry('400x400')
       laundrybill.config(bg = 'snow3')
       laundrybill.title('Laundry Bill')
       laundrybill.iconbitmap('laundry.ico')
       statement = 'SELECT SHIRTS FROM LAUNDRY WHERE ROOM_NO = ' +
str(room_selected.get())
       cursor.execute(statement)
       shirts = [i[0]] for i in cursor[0]
       statement = 'SELECT PANTS FROM LAUNDRY WHERE ROOM_NO = ' +
str(room_selected.get())
       cursor.execute(statement)
       pants = [i[0]] for i in cursor[0]
       statement = 'SELECT OTHERS FROM LAUNDRY WHERE ROOM_NO = ' +
str(room_selected.get())
```

```
cursor.execute(statement)
       others = [i[0]] for i in cursor[0]
       change_x = 20
       change y = 60
       Label(laundrybill, text = 'Laundry Bill', font = 'bahnschrift 20 roman', bg =
'snow3').place(x = 130, y = 20)
       Label(laundrybill, text = 'Shirts:', font = 'bahnschrift 17 roman', bg = 'snow3').place(x =
30 + \text{change}_x, y = 80 + \text{change}_y)
       Label(laundrybill, text = 'Pants:', font = 'bahnschrift 17 roman', bg = 'snow3').place(x =
30 + \text{change}_x, y = 130 + \text{change}_y
       Label(laundrybill, text = 'Others:', font = 'bahnschrift 17 roman', bg = 'snow3').place(x =
30 + \text{change}_x, y = 180 + \text{change}_y
       # Label(laundrybill, text = 'Total:', font = 'bahnschrift 15 roman', bg = 'snow3').place(x =
30 + 20, y = 230 + 30)
       Label(laundrybill, text = str(shirts), font = 'bahnschrift 17 roman', bg = 'snow3').place(x =
320 + \text{change}_x, y = 80 + \text{change}_y
       Label(laundrybill, text = str(pants), font = 'bahnschrift 17 roman', bg = 'snow3').place(x =
320 + change_x, y = 130 + change_y
       Label(laundrybill, text = str(others), font = 'bahnschrift 17 roman', bg = 'snow3').place(x
= 320 + change_x, y = 180 + change_y
       # Label(laundrybill, text = str(laundry_total), font = 'bahnschrift 15 roman', bg =
'snow3').place(x = 320 + 20, y = 230 + 30)
     def car fee(x):
          if x == 'SUV':
             return 100
          if x == 'SEDAN':
             return 200
          if x == 'HATCHBACK':
```

```
return 300
         if x == 'CONVERTIBLE':
           return 400
         if x == 'SPORT':
           return 500
         else:
           return 0
    if restaurant_total == None:
       restaurant\_total = 0
    statement = 'SELECT ROOM_TYPE FROM CUSTOMERS WHERE ROOM_NO = ' +
str(room_selected.get())
    cursor.execute(statement)
    room\_type = [i[0] for i in cursor][0]
    if room_type == 'NORMAL':
      cost = 2500
    else:
      cost = 4000
    statement = 'SELECT CAR_TYPE FROM PARKING WHERE ROOM_NO = ' +
str(room_selected.get())
    cursor.execute(statement)
    car_type = [i[0] for i in cursor][0]
    car_cost = car_fee(car_type)
    tax = 8
```

```
checkout_date = str(year) + '-' + str(month) + '-' + str(date)
              days_of_stay = validate_date(checkin_date, checkout_date)
              if days\_of\_stay == 0:
                     days\_of\_stay = 1
              room_total = days_of_stay * cost
              parking_total = days_of_stay * car_cost
              total_total = str(float((room_total + laundry_total + restaurant_total + parking_total)) * (1 +
tax/100)
             l = total_total.split('.')
              total\_total = 1[0] + '.' + 1[1][0:2]
              def chkout():
                     statement = 'insert into customer_history values ("' + str(name) + "',' +
str(room_selected.get()) + ',' + str(occupants) + ',"' + str(checkin_date) + "","' +
str(checkout\_date) + ""," + str(customer\_Id) + "," + str(phNo) + "," + str(days\_of\_stay) + "," + str(checkout\_date) + ""," + str(customer\_Id) + "," + str(phNo) + "," + str(days\_of\_stay) + "," + str(customer\_Id) + "," + 
str(total_total) + ',"' + str(room_type) + "")'
                     cursor.execute(statement)
                     connector.commit()
                     statement = 'update customers set NAME = NULL ,OCCUPANTS = NULL ,CHECK_IN
= NULL, CUSTOMER_ID = NULL, PH_NUMBER = NULL, ROOM_TYPE = NULL,
STATUS = "FREE" where ROOM_NO = ' + str(room_selected.get())
                     cursor.execute(statement)
                     connector.commit()
                    f = open('C:\Wsers\RK\Desktop\CS Project\Hotel bill folder\' + str(customer\_Id) +
".csv","w")
```

```
w = csv.writer(f)
       w.writerow(['S.No', 'Product Description', 'Quantity', 'Price'])
       w.writerow(['1', str(room_type).title() + 'Room',days_of_stay, room_total])
       w.writerow(['2', 'Room Service', '-', roomservice total])
      w.writerow(['2', 'Car Service','1', parking_total])
       w.writerow(['3', 'Restaurant','-', restaurant_total])
       w.writerow(['4', 'Laundry','-', laundry_total])
      w.writerow(['-', 'SubTotal','-', room_total + laundry_total + restaurant_total +
parking_total])
      w.writerow(['-', 'Total','-', room_total + laundry_total + restaurant_total + parking_total])
      checkout_screen.destroy()
      messagebox.showinfo('Check-Out', 'Successfully Checked-Out!')
    if Checkin.check_date(date_selected.get(), month_selected.get(), year_selected.get()):
      if validate_date(checkin_date, checkout_date) == False and validate_date(checkin_date,
checkout_date) != 0:
         messagebox.showerror('Error', 'Check-Out date was before Check-In')
      else:
         rooms_option.config(state = DISABLED)
         date_menu.config(state = DISABLED)
         month_menu.config(state = DISABLED)
         year_menu.config(state = DISABLED)
         checkout_button.config(state = DISABLED)
#------Billing Screen------
-----
         checkout_screen.geometry('1233x645')
```

```
restaurant bill = Button(checkout screen, text = 'Restaurant Orders', bg = 'cadet blue',
fg = 'black', font = 'bahnschrift 15 bold', activebackground = 'cadet blue', command =
show_restbill)
        restaurant_bill.place(x = 65, y = 550)
        laundry button = Button(checkout screen, text = 'Laundry Orders', bg = 'cadet blue',
fg = 'black', font = 'bahnschrift 15 bold', activebackground = 'cadet blue', command =
show_laundrybill)
        laundry_button.place(x = 350, y = 550)
        bill = Text(checkout_screen, height = 27, width = 61, borderwidth = 10, bg =
'gainsboro', font = 'bahnschrift 14 roman',relief = SUNKEN)
         bill.insert(INSERT, '\n\n\nName: ' + name + '\t\t\t\t\t\t\ Room No: ' +
str(room_selected.get()) + '\n')
        bill.insert(INSERT, 'Check-In Date: ' + str(checkin_date) + '\t\t\t\t\t
                                                                          Customer Id: '
+ str(customer_Id) + '\n'
        bill.insert(INSERT, '-----\n')
        bill.insert(INSERT, 'S.No\t\t Product Description\t\t\t Quantity\t
                                                                           Price(n(n'))
        bill.insert(INSERT, '
                              1 t t
                                        ' + str(room_type).title() + 'Room\t\t\t
str(days_of_stay) + '\t
                         ' + str(room\_total) + '\n\n'
        bill.insert(INSERT, '
                              2 t t
                                         Room Service\t\t\t
                                                               -\t
str(roomservice\_total) + '\n\n')
         bill.insert(INSERT, '
                              3
                                                    Car Service
                                                                              1
' + str(parking\_total) + '\n\n'
         bill.insert(INSERT, '
                              4\t\t
                                           Restaurant\t\t
                                                               -\t
str(restaurant\_total) + '\n\n'
                              5\t \Delta t = -t + str(laundry_t) +
         bill.insert(INSERT, '
' n n'
         bill.insert(INSERT,
')
        bill.insert(INSERT, 'SubTotal: Rs'+str(room total+laundry total+
restaurant_total + parking_total) + '\n')
```

```
bill.insert(INSERT, ' Tax : ' + str(tax) + '%\n')
        bill.insert(INSERT, 'Total: Rs' + total_total + \n'\n\n')
         bill.insert(INSERT, '*' * 32 + 'Thank You ' + '*' * 32 + '\n\n')
        bill.insert(INSERT, '*' * 20 + ' Hope you Enjoyed your stay with Us ' + '*' * 17)
        bill.tag add('total tag','20.0','22.30')
        bill.tag_config('total_tag', font = 'bahnschrift 19 roman')
        # bill.config(state = DISABLED)
        bill.place(x = 600, y = 0)
        Label(checkout_screen, text = 'Majestic Hotel', font = 'bahnschrift 20 roman', bg =
'gainsboro').place(x = 830, y = 10)
        chkout_button = Button(checkout_screen, text = 'Check-Out', bg = 'gainsboro', font =
'bahnschrift 20 roman', activebackground = 'gainsboro', command = chkout)
        chkout button.place(x = 1010, y = 463)
    else:
      messagebox.showerror('Error', 'Enter a valid date')
#-----Labels------
 Label(checkout_screen, text = 'CHECK-OUT', bg = 'cadet blue', fg = 'black', font =
'bahnschrift 25 bold').place(x = 200, y = 20)
  labels(checkout_screen, 'Select your Room Number:', 50, 120)
  labels(checkout_screen, 'Select the date:', 50, 200)
  labels(checkout screen, 'Select the month:', 50, 280)
  labels(checkout_screen, 'Select the year:', 50, 360)
#------Menus-------Menus-------
_____
  rooms_option = OptionMenu(checkout_screen, room_selected, *get_rooms())
  rooms_option.place(x = 400, y = 120)
 room_selected.set(get_rooms()[0])
```

```
date_menu = OptionMenu(checkout_screen, date_selected, *[i for i in range(1, 32)])
  date_menu.place(x = 400, y = 200)
  date_selected.set(21)
  month_menu = OptionMenu(checkout_screen, month_selected, *[i for i in range(1, 13)])
  month_menu.place(x = 400, y = 280)
  month_selected.set(1)
  year_menu = OptionMenu(checkout_screen, year_selected, 2020,2021)
  year_menu.place(x = 400, y = 360)
  year_selected.set(2020)
#-----Buttons-----
  reset_button = Button(checkout_screen, text = 'Reset', bg = 'cadet blue', fg = 'black', font =
'bahnschrift 15 bold', activebackground = 'cadet blue', state = ACTIVE, command = reset)
  reset\_button.place(x = 130, y = 450)
  generate_bill_button = Button(checkout_screen, text = 'Generate Bill', bg = 'cadet blue', fg =
'black', font = 'bahnschrift 15 bold', activebackground = 'cadet blue', state = ACTIVE, command
= lambda: submit(generate_bill_button, reset_button))
  generate_bill_button.place(x = 360, y = 450)
```

## **LAUNDRY:**

```
from tkinter import *
from tkinter import messagebox
import mysql.connector
import time
import datetime
import os
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
def get rooms():
  statement = 'select ROOM_NO from customers where STATUS != "FREE"'
  cursor.execute(statement)
  r = [i[0] \text{ for } i \text{ in cursor}]
  return r
def menu():
   messagebox.showinfo("Laundry"," \tPRICING\n\nShirts --> RS 15 \nPants --> RS 25
\nOthers --> RS 10 \n \n \n* Sarees are also counted as shirts \n")
def submit():
   room=roomvariable.get()
   shirts=shirtvariable.get()
   pants=pantvariable.get()
   others=othervariable.get()
   statement1='SELECT CUSTOMER ID FROM CUSTOMERS WHERE ROOM NO='
+ str(room)
   cursor.execute(statement1)
   correct_id= cursor.fetchone()
   price=15*(shirts)+25*(pants)+10*(others)
   if price !=0 and cust_id.get()!=0:
       if correct_id[0] == cust_id.get():
           a=time.localtime()
           hours=a[3]
           mins=a[4]
           sec=a[5]
           ctime=datetime.time(hours,mins,sec)
           cdate= datetime.date.today()
           ctime=str(ctime)
           cdate=str(cdate)
```

```
submitbutton.configure(state=DISABLED)
          resetbutton.configure(state=DISABLED)
          response = messagebox. askok cancel ('Laundry', ''Click \ OK \ to \ confirm \ \ \ ) nCOST
:"+str(price))
          if response==1:
              statement2='insert into laundry_history
(ROOM NO, CUSTOMER ID, SHIRTS, PANTS, OTHERS, TOTAL, DATE, TIME)
values('+str(room)+','+str(cust id.get())+','+
str(shirts)+','+str(pants)+','+str(others)+','+str(price)+',"'+cdate+'","'+ctime+'")'
              statement3='UPDATE LAUNDRY SET SHIRTS=SHIRTS+'+ str(shirts)+
',PANTS=PANTS+' +str(pants)+ ',OTHERS=OTHERS+' +str(others)+ ',TOTAL=TOTAL+'
+ str(price)+ ' WHERE ROOM_NO=' + str(room)
              cursor.execute(statement2)
              connector.commit()
              cursor.execute(statement3)
              connector.commit()
              messagebox.showinfo("Laundry",message="Entry successfully added")
              resetbutton.configure(state=ACTIVE)
          else:
              submitbutton.configure(state=ACTIVE)
              resetbutton.configure(state=ACTIVE)
      else:
          messagebox.showerror('Landry',"Room Number or Customer ID wrong")
   else:
      messagebox.showerror('Laundry',"Enter proper credentials")
def reset():
   shirtvariable.set(0)
   pantvariable.set(0)
   othervariable.set(0)
   cust_id.set(0)
   roomvariable.set(available rooms[0])
```

```
submitbutton.configure(state=ACTIVE)
def laundry():
   global identry
   global roomvariable
   global shirtvariable
   global pantvariable
   global othervariable
   global cust_id
   global submitbutton
   global resetbutton
   global available_rooms
   available_rooms=get_rooms()
   shirtvariable=IntVar()
   shirtvariable.set(0)
   pantvariable=IntVar()
   pantvariable.set(0)
   othervariable=IntVar()
   othervariable.set(0)
   roomvariable=IntVar()
   cust_id=IntVar()
   cust_id.set(0)
   laundry_screen=Toplevel()
   laundry_screen.geometry("600x600")
   laundry_screen.config(bg='salmon2')
   laundry_screen.title("Laundry")
   laundry_screen.iconbitmap(str(os.getcwd())+'/icons/'+'laundry.ico')
   try:
      roomvariable.set(available_rooms[0])
   except:
      messagebox.showerror("No customers available")
      laundry_screen.destroy()
      return
```

```
# title label
   Laundry_label=Label(laundry_screen,text="LAUNDRY",font = 'bahnschrift 25
bold',bg='salmon2',fg='black',padx=20)
   Laundry_label.place(x=240-30,y=50-30)
   # for getting roomno
   roomnolabel=Label(laundry_screen,text='Room
No',fg='black',bg='salmon2',font='bahnschrift 15 bold',padx=20)
   roomnolabel.place(x=80,y=150-30)
menu_button=Button(laundry_screen,text='MENU',fg='black',bg='salmon2',font='bahnschrif
t 15 bold',padx=20,command=menu)
   menu_button.place(x=480,y=50)
   roomnooption=OptionMenu(laundry_screen,roomvariable,*available_rooms)
   roomnooption.place(x=400,y=150-30)
   # for getting customerid
   idlabel=Label(laundry screen,text='Customer
id',fg='black',bg='salmon2',font='bahnschrift 15 bold',padx=20)
   idlabel.place(x=80,y=220-30)
   identry=Entry(laundry_screen,textvariable=cust_id)
   identry.place(x=400,y=220-30)
   #for getting no of shirts
   shirtlabel=Label(laundry_screen,text='Shirts',fg='black',bg='salmon2',font='bahnschrift
15 bold',padx=20)
   shirtlabel.place(x=80,y=280-30)
   shirtoption=OptionMenu(laundry_screen,shirtvariable,*[i for i in range(0,20)])
   shirtoption.place(x=400,y=280-30)
   #for getting no of pants
   pantlabel=Label(laundry_screen,text='Pants',fg='black',bg='salmon2',font='bahnschrift
15 \text{ bold',padx}=20
   pantlabel.place(x=80,y=350-30)
```

```
pantoption=OptionMenu(laundry_screen,pantvariable,*[i for i in range(0,20)])
            pantoption.place(x=400,y=350-30)
            #for getting no of others
            other label = Label (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', fg = 'black', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', bg = 'salmon2', font = 'bahnschrift' (laundry\_screen, text = 'Others', bg = 'salmon2', 
15 \text{ bold',padx}=20
            otherlabel.place(x=80,y=420-30)
            otheroption=OptionMenu(laundry_screen,othervariable,*[i for i in range(0,20)])
            otheroption.place(x=400,y=420-30)
            #submit button
submitbutton=Button(laundry_screen,text='SUBMIT',fg='black',bg='white',font='bahnschrift
15 bold',padx=20,command=submit)
            submitbutton.place(x=150,y=540-30)
            #reset button
resetbutton=Button(laundry_screen,text="RESET",fg='black',bg='white',font='bahnschrift
15 bold',padx=20,command=reset)
            resetbutton.place(x=300,y=540-30)
```

## **PARKING:**

```
from tkinter import *
from tkinter import messagebox
import mysql.connector
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
class labels:
  def __init__(self, screen, t, x, y):
    self = Label(screen, text = t, bg = 'light slate grey', fg = 'black', font = 'bahnschrift 18 bold')
    self.place(x = x, y = y)
def check_none(x):
  for i in x:
    if i == None:
       return True
  return False
def rooms_slots():
  statement = 'SELECT ROOM_NO FROM PARKING WHERE STATUS = "OCCUPIED""
  cursor.execute(statement)
  rooms = [i[0] for i in cursor]
  statement = 'SELECT P SLOT FROM PARKING WHERE P SLOT IS NOT NULL'
  cursor.execute(statement)
  slots = [i[0] for i in cursor]
  if check_none(slots):
    slots = []
  slots2 = [j for j in range(1,26)]
```

```
for x in slots:
    if x in slots2:
       slots2.remove(x)
  return slots2, rooms
def parking():
  parking_screen = Toplevel()
  parking_screen.configure(bg = 'light slate grey')
  parking_screen.title("Parking")
  parking_screen.geometry('600x600')
  room_selected = IntVar()
  type_selected = StringVar()
  slot_selected = IntVar()
  def submit():
    if type_selected.get() == None or plateNo_entry.get == None or slot_selected.get() ==
None:
       messagebox.showerror(", 'Enter proper credentials')
       parking_screen.destroy()
       parking()
     statement = 'UPDATE PARKING SET CAR_TYPE = "' + str(type_selected.get()) + '",
L_PLATE = "' + str(plateNo_entry.get()) + "', P_SLOT = ' + str(slot_selected.get()) + ' WHERE
ROOM_NO = ' + str(room_selected.get())
     cursor.execute(statement)
    connector.commit()
     parking_screen.destroy()
     messagebox.showinfo(", 'Updated')
```

```
Label(parking_screen, text = 'Parking', font = 'bahnschrift 25 bold', bg = 'light slate
grey').place(x = 235, y = 5)
  labels(parking_screen, 'Room Number', 50, 150)
  labels(parking_screen, 'Car Type', 50, 240)
  labels(parking_screen, 'Licence Plate Number', 50, 330)
  labels(parking_screen, 'Parking Slot', 50, 420)
  slots, rooms = rooms_slots()
  if rooms == []:
    parking_screen.destroy()
    messagebox.showerror(",'No customers available')
    return
  room_menu = OptionMenu(parking_screen, room_selected, *rooms)
  room_menu.place(x = 470, y = 150)
  type_menu = OptionMenu(parking_screen, type_selected, *car_types)
  type_menu.place(x = 470, y = 240)
  plateNo_entry = Entry(parking_screen, font = 'bahnschrift 13 bold', width = 13)
  plateNo_entry.place(x = 470, y = 330)
  slots_menu = OptionMenu(parking_screen, slot_selected, *slots)
  slots_menu.place(x = 470, y = 420)
  submit_button = Button(parking_screen, text = 'Submit', font = 'bahnschrift 18 bold', bg =
'light slate grey', activebackground = 'light slate grey', command = submit)
  submit_button.place(x = 250, y = 520)
```

car\_types = ['SUV', 'SEDAN', 'HATCHBACK', 'CONVERTIBLE', 'SPORT']

## **ROOM SERVICE:**

```
from tkinter import *
from tkinter import messagebox
import mysql.connector
import time
import datetime
import os
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
def get_rooms():
  statement = 'select ROOM_NO from customers where STATUS != "FREE"'
  cursor.execute(statement)
  r = [i[0] \text{ for } i \text{ in cursor}]
  return r
def menu():
  messagebox.showinfo("Room service"," \tPRICING\n\n\n Coffee--> RS 20 \nTea --> RS 20
\nMilk --> RS 10 \n \n* Other services are free of cost\n")
def submit():
  room=roomvariable.get()
  serviceneeded= service.get()
  statement1='SELECT CUSTOMER_ID FROM CUSTOMERS WHERE ROOM_NO=' +
str(room)
  cursor.execute(statement1)
  correct_id= cursor.fetchone()
  if serviceneeded=='Cleaning'or serviceneeded=='Water' or serviceneeded=='Hotwater':
```

```
price=0
  if serviceneeded=='Milk':
    price=10
  if serviceneeded=='Coffee':
    price=20
  if serviceneeded=='Tea':
    price=20
  if correct_id[0]==cust_id.get():
    a=time.localtime()
    hours=a[3]
    mins=a[4]
    sec=a[5]
    ctime=datetime.time(hours,mins,sec)
    cdate= datetime.date.today()
    ctime=str(ctime)
    cdate=str(cdate)
    submitbutton.configure(state=DISABLED)
    resetbutton.configure(state=DISABLED)
    response=messagebox.askokcancel("Room service","Click OK to confirm your order\n\n
COST:"+str(price))
    if response==1:
       statement2= "insert into roomservice (ROOM_NO,SERVICE,TOTAL,DATE,TIME)
values('%s','%s',%s,'%s','%s')" %(room,serviceneeded,price,cdate,ctime)
       cursor.execute(statement2)
       connector.commit()
       messagebox.showinfo("Room service",message='Entry successfully added')
       resetbutton.configure(state=ACTIVE)
    else:
```

```
submitbutton.configure(state=ACTIVE)
       resetbutton.configure(state=ACTIVE)
  else:
    messagebox.showerror('Restaurant', "Room Number or Customer ID wrong")
def reset():
  service.set('Cleaning')
  cust_id.set(0)
  roomvariable.set(available_rooms[0])
  submitbutton.configure(state=ACTIVE)
def roomservice():
  global identry
  global roomvariable
  global service
  global cust_id
  global submitbutton
  global resetbutton
  global available_rooms
  available_rooms=get_rooms()
  servicelist=['Cleaning','Milk','Tea','Coffee','Water','Hotwater']
  service= StringVar()
  service.set(servicelist[0])
  roomvariable=IntVar()
  cust_id=IntVar()
  cust_id.set(0)
  roomservice_screen=Toplevel()
  roomservice_screen.geometry("600x600")
  roomservice_screen.config(bg='RosyBrown1')
  roomservice_screen.title("Room service")
```

```
#roomservice_screen.iconbitmap(str(os.getcwd())+'/icons/'+'roomservice.ico')
  try:
    roomvariable.set(available_rooms[0])
  except:
    messagebox.showerror("No customers available")
    roomservice_screen.destroy()
    return
  # title label
  roomservice_label=Label(roomservice_screen,text="ROOM SERVICE",font = 'bahnschrift 24
bold',bg='RosyBrown1',fg='black',padx=20)
  roomservice_label.place(x=240-30,y=50-30)
  # for getting roomno
  roomnolabel=Label(roomservice screen,text='Room
No',fg='black',bg='RosyBrown1',font='bahnschrift 15 bold',padx=20)
  roomnolabel.place(x=80,y=170)
menu_button=Button(roomservice_screen,text='MENU',fg='black',bg='RosyBrown1',font='bahn
schrift 15 bold',padx=20,command=menu)
  menu_button.place(x=480,y=100)
  roomnooption=OptionMenu(roomservice screen,roomvariable,*available rooms)
  roomnooption.place(x=400,y=170)
  # for getting customerid
  idlabel=Label(roomservice_screen,text='Customer
id',fg='black',bg='RosyBrown1',font='bahnschrift 15 bold',padx=20)
  idlabel.place(x=80,y=240)
```

```
identry=Entry(roomservice_screen,textvariable=cust_id)
  identry.place(x=400,y=240)
  #service required
  servicelabel=Label(roomservice_screen,text='Service
required',fg='black',bg='RosyBrown1',font='bahnschrift 15 bold',padx=20,pady=20)
  servicelabel.place(x=80,y=310)
  serviceselected=OptionMenu(roomservice_screen,service,*servicelist)
  serviceselected.place(x=400,y=310)
  #submit button
submitbutton=Button(roomservice_screen,text='SUBMIT',fg='black',bg='white',font='bahnschrif
t 15 bold',padx=20,command=submit)
  submitbutton.place(x=150,y=540-30)
  #reset button
  resetbutton=Button(roomservice_screen,text="RESET",fg='black',bg='white',font='bahnschrift
15 bold',padx=20,command=reset)
  resetbutton.place(x=300,y=540-30)
```

## **RESTAURANT:**

```
from tkinter import *
from tkinter import messagebox
import mysql.connector
import random
import time
import datetime
import os
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
def get_ids():
  cursor.execute('select BOOKING_ID from restaurant where BOOKING_ID IS NOT NULL')
  available_ids = [i[0] for i in cursor]
  return available ids
idlist=get_ids()
def generate_id():
     s="123456789"
    b_id = ".join(random.sample('123456789',1)) + ".join(random.sample(s,4))
    if b_id not in idlist:
       idlist.append(b_id)
       bookingid.set(b_id)
     else:
       generate_id()
def restaurant():
  def menu():
```

```
messagebox.showinfo("Restaurant","\tPRICING\n\nBREAKFAST:(8 AM-12
AM)\nAdult(VEG)--> RS 200\nChild(VEG)--> RS 100\nAdult(NONVEG)--> RS
250\nChild(NONVEG)--> RS 150"+
                                "\n\nLUNCH:(12 PM-5 PM)\nAdult(VEG)--> RS
250\nChild(VEG)--> RS 150\nAdult(NONVEG)--> RS 325\nChild(NONVEG)--> RS 200"+
                                "\n\nDINNER:(7 \text{ PM}-12 \text{ PM})\n\text{Adult}(VEG)--> \text{RS}
275\nChild(VEG)--> RS 200\nAdult(NONVEG)--> RS 350\nChild(NONVEG)--> RS 250"+
                                "\n\n*Please note that we only offer BUFFET"+
                                "\n*BUFFETS are open only during the time mentioned
above"+
                                "\n*Food cannot be provided directly through ROOM
SERVICE"+
                                "\n*CHILD - 14 AND BELOW")
  def findcustomertype():
      if meal.get() not in["Breakfast","Dinner","Lunch"]:
         confirm_button.configure(state=DISABLED)
         messagebox.showerror(","Meal not selected")
      else:
         global type1
         type1=r.get()
         #print(type1)
         if type1=="Hotel Guest":
           hotelguest()
         elif type1=='Restaurant Guest':
           Restaurantguest()
         else:
           messagebox.showerror(","Please select customer type")
```

```
global r
                      # for hotel guest
                      def submit2():
                                                                 a=time.localtime()
                                                               hours=a[3]
                                                                 price_breakfast=
 200*(vegadult1no.get()) + 100*(vegchild1no.get()) + 250*(nonvegadult1no.get()) + 150*(nonvegchild1no.get()) + 100*(vegchild1no.get()) + 100*(vegch
ld1no.get())
                                                                 price_lunch=
 250*(vegadult1no.get())+150*(vegchild1no.get())+325*(nonvegadult1no.get())+200*(nonvegchild1no.get())+325*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get())+320*(nonvegadult1no.get()
 ld1no.get())
                                                                 price_dinner=
275*(vegadult1no.get()) + 200*(vegchild1no.get()) + 350*(nonvegadult1no.get()) + 250*(nonvegchild1no.get()) + 200*(vegchild1no.get()) + 200*(vegch
 ld1no.get())
                                                                 statement1='SELECT CUSTOMER_ID FROM CUSTOMERS WHERE ROOM_NO=' +
 str(roomnovariable.get())
                                                               cursor.execute(statement1)
                                                               correct_id= cursor.fetchone()
                                                               if meal.get()=='Breakfast':
                                                                                     price=price_breakfast
                                                               if meal.get()=='Lunch':
                                                                                      price=price_lunch
                                                                 if meal.get()=='Dinner':
                                                                                      price=price_dinner
                                                               if price!=0:
```

```
if correct_id[0] == cust_id.get():
           a=time.localtime()
           hours=a[3]
           mins=a[4]
           sec=a[5]
           ctime=datetime.time(hours,mins,sec)
           cdate= datetime.date.today()
           ctime=str(ctime)
           cdate=str(cdate)
           submit1button.configure(state=DISABLED)
           reset1button.configure(state=DISABLED)
           previous1button.configure(state=DISABLED)
           response=messagebox.askokcancel("Restaurant","Click OK to confirm your
order\n\n COST:"+str(price))
           if response==1:
             statement2= 'insert into restaurant
(CUSTOMER_ID,CUSTOMER_TYPE,ADULTS_VEG,CHILDREN_VEG,ADULTS_NONVE
G,CHILDREN_NONVEG,TOTAL,DATE,TIME) values('+str(identry.get())+',"'+
type1+"",'+str(vegadult1no.get())+','+str(vegchild1no.get())+','+str(nonvegadult1no.get())+','+str(
nonvegchild1no.get())+','+str(price)+',"'+cdate+"',"'+ctime+"")'
             cursor.execute(statement2)
             connector.commit()
             messagebox.showinfo("Restaurant",message='Entry successfully added')
             reset1button.configure(state=ACTIVE)
             previous1button.configure(state=ACTIVE)
           else:
             submit1button.configure(state=ACTIVE)
```

```
reset1button.configure(state=ACTIVE)
           previous1button.configure(state=ACTIVE)
       else:
         messagebox.showerror('Restaurant',"Room Number or Customer ID wrong")
    else:
       messagebox.showerror('Restaurant',"Enter proper credentials")
def reset2():
    vegadult1no.set(0)
    nonvegadult1no.set(0)
    vegchild1no.set(0)
    nonvegchild1no.set(0)
    cust_id.set(0)
    submit1button.configure(state=ACTIVE)
def previous2():
    confirm_button.config(state=ACTIVE)
    mealdropdown.config(state=ACTIVE)
    vegadult1label.destroy()
    vegadult1option.destroy()
    vegchild1label.destroy()
    vegchild1option.destroy()
```

```
nonvegadult1label.destroy()
     nonvegadult1option.destroy()
    nonvegchild1label.destroy()
    nonvegchild1option.destroy()
    roomnolabel.destroy()
    roomnooption.destroy()
    idlabel.destroy()
    identry.destroy()
     submit1button.destroy()
     reset1button.destroy()
    previous1button.destroy()
def hotelguest():
  global identry
  global vegadult1no
  global vegchild1no
  global nonvegadult1no
  global nonvegchild1no
  global vegadult1label
  global vegchild1label
  global nonvegadult1label
  global nonvegchild1label
```

global vegadult1option global vegchild1option global nonvegadult1option global nonvegchild1option global previous1button global reset1button global submit1button global roomnolabel global roomnooption global cust\_id global idlabel global roomnovariable vegadult1no=IntVar() vegchild1no=IntVar() nonvegadult1no=IntVar()nonvegchild1no=IntVar()

```
cust_id=IntVar()
    cust_id.set(0)
    confirm_button.config(state=DISABLED)
    mealdropdown.config(state=DISABLED)
    def get_rooms():
       statement = 'select ROOM_NO from customers where OCCUPANTS is not NULL'
       cursor.execute(statement)
       r = [i[0] \text{ for } i \text{ in cursor}]
       return r
    available_rooms=get_rooms()
    roomnovariable= IntVar()
    try:
       roomnovariable.set(available_rooms[0])
    except:
       messagebox.showerror("No customers available")
       Restaurant_screen.destroy()
       return
    roomnolabel=Label(Restaurant_screen,text="Room
no",fg='darkgoldenrod1',bg='firebrick2',font = 'bahnschrift 15 bold',padx=20)
    roomnolabel.place(x=80,y=210)
    roomnooption=OptionMenu(Restaurant_screen,roomnovariable,*available_rooms)
    roomnooption.place(x=400,y=210)
```

```
idlabel=Label(Restaurant_screen,text='Customer
id',fg='darkgoldenrod1',bg='firebrick2',font='bahnschrift 15 bold',padx=20)
              idlabel.place(x=80,y=270)
              identry=Entry(Restaurant_screen,textvariable= cust_id)
              identry.place(x=400,y=270)
vegadult1label=Label(Restaurant_screen,text="VEG(Adults)",fg='darkgoldenrod1',bg='firebrick
2',font = 'bahnschrift 15 bold',padx=20)
              vegadult1label.place(x=80,y=320)
              vegadult1option=OptionMenu(Restaurant_screen,vegadult1no,*[i for i in range(0,5)])
              vegadult1option.place(x=400,y=320)
vegchild1label = Label (Restaurant\_screen, text = "VEG(Kids)", fg = 'darkgolden rod1', bg = 'firebrick2', fg = 'darkgolden rod1', bg = 'darkgo
font = 'bahnschrift 15 bold',padx=20)
              vegchild1label.place(x=80,y=370)
              vegchild1option=OptionMenu(Restaurant_screen, vegchild1no, *[i for i in range(0,5)])
              vegchild1option.place(x=400,y=370)
nonvegadult1label=Label(Restaurant_screen,text="NONVEG(Adults)",fg='darkgoldenrod1',bg='
firebrick2',font = 'bahnschrift 15 bold',padx=20)
              nonvegadult1label.place(x=80,y=420)
```

```
nonvegadult1option=OptionMenu(Restaurant_screen,nonvegadult1no,*[i for i in
range(0,5)
    nonvegadult1option.place(x=400,y=420)
nonvegchild1label=Label(Restaurant_screen,text="NONVEG(Kids)",fg='darkgoldenrod1',bg='fi
rebrick2',font = 'bahnschrift 15 bold',padx=20)
    nonvegchild1label.place(x=80,y=470)
    nonvegchild1option=OptionMenu(Restaurant_screen,nonvegchild1no,*[i for i in
range(0,5)])
    nonvegchild1option.place(x=400,y=470)
submit1button=Button(Restaurant_screen,text="SUBMIT",fg='darkgoldenrod1',bg='firebrick2',f
ont='bahnschrift 15 bold',activebackground=
'firebrick2',activeforeground='darkgoldenrod1',padx=20,command=submit2)
    submit1button.place(x=100,y=550)
    #reset button
reset1button=Button(Restaurant_screen,text="RESET",fg='darkgoldenrod1',bg='firebrick2',font=
'bahnschrift 15 bold',activebackground=
'firebrick2',activeforeground='darkgoldenrod1',padx=20,command=reset2)
    reset1button.place(x=220,y=550)
    #previous page
previous1button=Button(Restaurant_screen,text="PREVIOUS",fg='darkgoldenrod1',bg='firebric
k2',font='bahnschrift 15 bold',activebackground=
'firebrick2',activeforeground='darkgoldenrod1',padx=20,command=previous2)
    previous 1 button.place(x=330,y=550)
```

```
# for restaurant guest
                 def submit1():
                                  global bookingid
                                  global bookingidlabel
                                  global bookingidentry
                                  global costlabel
                                  global costlabel1
                                  global bill
                                  bookingid=StringVar()
                                  a=time.localtime()
                                 hours=a[3]
                                  price_breakfast=
200*(vegadultno.get()) + 100*(vegchildno.get()) + 250*(nonvegadultno.get()) + 150*(nonvegchildno.get()) + 100*(vegadultno.get()) + 100*(vegadult
 o.get())
                                  price_lunch=
 250*(vegadultno.get())+150*(vegchildno.get())+325*(nonvegadultno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get())+200*(nonvegchildno.get
 o.get())
                                  price_dinner=
 275*(vegadultno.get())+200*(vegchildno.get())+350*(nonvegadultno.get())+250*(nonvegchildno.get())
 o.get())
                                 if meal.get()=='Breakfast':
                                                   price=price_breakfast
                                  if meal.get()=='Lunch':
                                                   price=price_lunch
                                 if meal.get()=='Dinner':
```

```
price=price_dinner
    if price!=0:
       a=time.localtime()
      hours=a[3]
      mins=a[4]
       sec=a[5]
       ctime=datetime.time(hours,mins,sec)
       cdate=datetime.date.today()
      ctime=str(ctime)
       cdate=str(cdate)
       cost= price+ (5/100)*price
#cancelbutton=Button(Restaurant_screen,text='CANCEL',fg='darkgoldenrod1',bg='firebrick2',fo
nt = 'bahnschrift 15 bold',padx=20,command=cancel)
       \#cancelbutton.place(x=250,y=540)
costlabel=Label(Restaurant_screen,text="COST",fg='darkgoldenrod1',bg='firebrick2',font =
'bahnschrift 12 bold',padx=20)
      costlabel.place(x=350,y=550)
costlabel1=Label(Restaurant_screen,text=str(cost),fg='darkgoldenrod1',bg='firebrick2',font =
'bahnschrift 12 bold',padx=20)
       costlabel1.place(x=450,y=550)
       submitbutton.configure(state=DISABLED)
       resetbutton.configure(state=DISABLED)
       previousbutton.configure(state=DISABLED)
       response=messagebox.askokcancel("Restaurant","Click OK to confirm your
order\n\nCOST(Tax included):"+str(price+ ((5/100)*price)))
```

```
if response == 1:
                        bookingidlabel=Label(Restaurant_screen,text="BOOKING"
ID",fg='darkgoldenrod1',bg='firebrick2',font = 'bahnschrift 12 bold',padx=20)
                        bookingidlabel.place(x=10,y=550)
                        bookingidentry=Entry(Restaurant screen,textvariable= bookingid,font = 'bahnschrift
12 bold')
                        bookingidentry.place (x=170,y=550)
                       generate_id()
                       bookingidentry.configure(state= DISABLED)
                       statement= 'insert into restaurant (BOOKING_ID,CUSTOMER_TYPE,
ADULTS_VEG,CHILDREN_VEG,ADULTS_NONVEG,CHILDREN_NONVEG,TOTAL,DA
TE,TIME) values('+str(bookingid.get())+',"'+ type1
+"", '+str(vegadultno.get())+', '+str(vegchildno.get())+', '+str(nonvegadultno.get())+', '+str(nonvegchildno.get())+', '+str(nonvegadultno.get())+', '+str(n
ildno.get())+','+str(cost)+',"'+cdate+'","'+ctime+'")'
                       cursor.execute(statement)
                       connector.commit()
                       messagebox.showinfo("Restaurant",message="Entry successfully
added\nBookingID:"+ str(bookingid.get()))
#-----billscreen------billscreen
                       Restaurant_screen.geometry("1250x600")
                       bill=Text( Restaurant_screen, height = 28, width = 60, bg = 'white',fg='black', font =
'bahnschrift 15 bold ',relief = SUNKEN)
                        bill.insert(INSERT,"\t\tHOTEL NAME\n\n"
                       bill.insert(INSERT,"DATE: "+ cdate+"\n" )
```

```
bill.insert(INSERT,"TIME: "+ ctime+ "\n\n")
         bill.insert(INSERT," -----
----\n")
         bill.insert(INSERT,"\t\t\tRESTAURANT\n\n\n")
         bill.insert(INSERT, "Booking ID: "+str(bookingid.get())+"\n\n")
         bill.insert(INSERT, "S.NO\tPRODUCT\t\tQUANTITY\t\tCOST\n\n")
         if price==price_breakfast:
           if vegadultno.get()!=0:
bill.insert(INSERT,"1\tVEG(ADULT)\t\t"+str(vegadultno.get())+"\t\t"+str(int(vegadultno.get())*
200)+'(n')
           if vegchildno.get()!=0:
bill.insert(INSERT,"2\tVEG(CHILD)\t\t"+str(vegchildno.get())+"\t\t"+str(int(vegchildno.get())*
100)+'(n')
           if nonvegadultno.get()!=0:
             bill.insert(INSERT,"3\tNON-
VEG(ADULT)\t''+str(nonvegadultno.get())+''\t''+str(int(nonvegadultno.get())*250)+'\n')
           if nonvegchildno.get()!=0:
             bill.insert(INSERT,"4\tNON-
VEG(CHILD)\t''+str(nonvegchildno.get())+"\t''+str(int(nonvegchildno.get())*150)+'\n')
         if price==price_lunch:
           if vegadultno.get()!=0:
bill.insert(INSERT,"1\tVEG(ADULT)\t\t"+str(vegadultno.get())+"\t\t"+str(int(vegadultno.get())*
250)+'(n')
           if vegchildno.get()!=0:
bill.insert(INSERT,"2\tVEG(CHILD)\t\t"+str(vegchildno.get())+"\t\t"+str(int(vegchildno.get())*
150)+'(n')
           if nonvegadultno.get()!=0:
```

```
bill.insert(INSERT,"3\tNON-
VEG(ADULT)\t''+str(nonvegadultno.get())+''\t''+str(int(nonvegadultno.get())*325)+'\n')
                                if nonvegchildno.get()!=0:
                                       bill.insert(INSERT,"4\tNON-
VEG(CHILD)\t''+str(nonvegchildno.get())+"\t''+str(int(nonvegchildno.get())*200)+\n')
                         if price==price_dinner:
                                if vegadultno.get()!=0:
bill.insert(INSERT,"1\tVEG(ADULT)\t\t"+str(vegadultno.get())+"\t\t"+str(int(vegadultno.get())*
275)+'(n')
                                if vegchildno.get()!=0:
bill.insert(INSERT,"2\tVEG(CHILD)\t\t"+str(vegchildno.get())+"\t\t"+str(int(vegchildno.get())*
200)+'(n')
                                if nonvegadultno.get()!=0:
                                       bill.insert(INSERT,"3\tNON-
VEG(ADULT) \land t'' + str(nonvegadultno.get()) + " \land t'' + str(int(nonvegadultno.get()) * 350) + " \land t'' + str(int(nonvegadultn
                                if nonvegchildno.get()!=0:
                                       bill.insert(INSERT,"4\tNON-
VEG(CHILD)\t'+str(nonvegchildno.get())+"\t'+str(int(nonvegchildno.get())*250)+\n')
                          bill.insert(INSERT,"\t\t\t\t\t----\n")
                         bill.insert(INSERT,"\t\t\tTOTAL\t\t" +str(price)+"\n")
                          bill.insert(INSERT,"\t\t\t\t\t----\n")
                          bill.insert(INSERT,"\tTAX = 5\%(CGST + SGST)\n")
                          bill.insert(INSERT,"\t\tCOST:\t\t\t" +str(((5/100)*price )+ price)+"\n\n")
                          bill.insert(INSERT,"\t\tHOPE YOU ENJOYED OUR SERVICE!")
                          bill.place(x=600,y=0)
                         #saving the bill in a notepad
                          billcontent=bill.get(1.0,END)
```

```
billfile=open(str(os.getcwd())+'/Restaurant bill
folder'+"/"+str(bookingid.get())+".txt","w")
         billfile.write(billcontent)
         billfile.close()
         resetbutton.configure(state=ACTIVE)
         previousbutton.configure(state=ACTIVE)
       else:
         costlabel.destroy()
         costlabel1.destroy()
         submitbutton.configure(state=ACTIVE)
         resetbutton.configure(state=ACTIVE)
         previousbutton.configure(state=ACTIVE)
     else:
       messagebox.showerror('Restaurant',"Enter proper credentials")
  def reset1():
     vegadultno.set(0)
    nonvegadultno.set(0)
    vegchildno.set(0)
    nonvegchildno.set(0)
     try:
       bill.destroy()
       bookingidlabel.destroy()
       bookingidentry.destroy()
```

```
costlabel.destroy()
    costlabel1.destroy()
    Restaurant_screen.geometry('600x600')
    submitbutton.configure(state=ACTIVE)
  except:
    pass
def previous1():
  confirm_button.config(state=ACTIVE)
  mealdropdown.config(state=ACTIVE)
  vegadultlabel.destroy()
  vegadultoption.destroy()
  vegchildlabel.destroy()
  vegchildoption.destroy()
  nonvegadultlabel.destroy()
  nonvegadultoption.destroy()
  nonvegchildlabel.destroy()
  nonvegchildoption.destroy()
  submitbutton.destroy()
  resetbutton.destroy()
  previousbutton.destroy()
```

```
try:
     bookingidlabel.destroy()
     bookingidentry.destroy()
    costlabel.destroy()
    costlabel1.destroy()
     bill.destroy()
     Restaurant_screen.geometry('600x600')
  except:
     pass
r=StringVar()
def Restaurantguest():
  global vegadultno
  global vegchildno
  global nonvegadultno
  global nonvegchildno
  global vegadultlabel
  global vegchildlabel
  global nonvegadultlabel
  global nonvegchildlabel
  global vegadultoption
  global vegchildoption
  global nonvegadultoption
  global nonvegchildoption
```

```
global previousbutton
                 global resetbutton
                 global submitbutton
                  vegadultno=IntVar()
                  vegchildno=IntVar()
                 nonvegadultno=IntVar()
                 nonvegchildno=IntVar()
                 confirm_button.config(state=DISABLED)
                  mealdropdown.config(state=DISABLED)
vegadultlabel = Label (Restaurant\_screen, text = "VEG(Adults)", fg = 'darkgolden rod 1', bg = 'firebrick 2' - text = (Adults)'', fg = (Adult
,font = 'bahnschrift 15 bold',padx=20)
                  vegadultlabel.place(x=110,y=250)
                  vegadultoption=OptionMenu(Restaurant_screen,vegadultno,*[i for i in range(0,21)])
                 vegadultoption.place(x=400,y=250)
vegchildlabel=Label(Restaurant_screen,text="VEG(Kids)",fg='darkgoldenrod1',bg='firebrick2',f
ont = 'bahnschrift 15 bold',padx=20)
                  vegchildlabel.place(x=110,y=300)
                 vegchildoption=OptionMenu(Restaurant_screen, vegchildno, *[i for i in range(0,21)])
```

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```
vegchildoption.place(x=400,y=300)
nonvegadult label = Label (Restaurant\_screen, text = "NONVEG (Adults)", fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)", fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)", fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)", fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)", fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)", fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Restaurant\_screen, text = "NONVEG (Adults)"), fg = 'darkgolden rod1', bg = 'factorial for the label (Res
irebrick2',font = 'bahnschrift 15 bold',padx=20)
             nonvegadultlabel.place(x=110,y=350)
            nonvegadultoption=OptionMenu(Restaurant_screen,nonvegadultno,*[i for i in range(0,21)])
             nonvegadultoption.place(x=400,y=350)
nonvegchildlabel=Label(Restaurant_screen,text="NONVEG(Kids)",fg='darkgoldenrod1',bg='fir
ebrick2',font = 'bahnschrift 15 bold',padx=20)
            nonvegchildlabel.place(x=110,y=400)
             nonvegchildoption=OptionMenu(Restaurant_screen,nonvegchildno,*[i for i in range(0,21)])
            nonvegchildoption.place(x=400,y=400)
            #submit button
submitbutton=Button(Restaurant_screen,text='SUBMIT',fg='darkgoldenrod1',bg='firebrick2',font
='bahnschrift 15 bold',activebackground=
'firebrick2',activeforeground='darkgoldenrod1',padx=20,command=submit1)
            submitbutton.place(x=100,y=460)
            #reset button
resetbutton=Button(Restaurant_screen,text="RESET",fg='darkgoldenrod1',bg='firebrick2',font='
bahnschrift 15 bold',activebackground=
'firebrick2',activeforeground='darkgoldenrod1',padx=20,command=reset1)
            resetbutton.place(x=220,y=460)
```

```
#previous page
previousbutton=Button(Restaurant_screen,text="PREVIOUS",fg='darkgoldenrod1',bg='firebrick
2',font='bahnschrift 15 bold',activebackground=
'firebrick2',activeforeground='darkgoldenrod1',padx=20,command=previous1)
    previousbutton.place(x=340,y=460)
  #main screen
  meal=StringVar()
  meal.set("Breakfast")
  meallist=["Breakfast","Lunch","Dinner"]
  a=time.localtime()
  if a[3] not in[7,8,9,10,11,12,13,14,15,16,17,19,20,21,22,23,24]:
    messagebox.showerror("Restaurant", "Restaurant service currently not
available\nBREAKFAST:(8 AM-12 AM)\n\nLUNCH:(12 PM-5 PM)\n\nDINNER:(7 PM-12
PM)")
  else:
    Restaurant_screen=Toplevel()
    Restaurant_screen.geometry("600x600")
    Restaurant_screen.config(bg='firebrick2')
    Restaurant_screen.title('Restaurant')
    Restaurant screen.iconbitmap(str(os.getcwd())+'/icons/'+'buffet.ico')
    # Restaurant label
```

restaurant\_label=Label(Restaurant\_screen,text='Restaurant',fg='darkgoldenrod1',bg='firebrick2',f

ont = 'bahnschrift 25 bold',padx=20)

```
restaurant_label.place(x=210,y=10)
    cust=Label(Restaurant_screen,text="Customer")
Type",fg='darkgoldenrod1',bg='firebrick2',font = 'bahnschrift 15 bold',padx=20)
    cust.place(x=40,y=110)
    Radiobutton(Restaurant_screen,text="Hotel Guest",font = 'bahnschrift 13
bold'.variable=r.value="Hotel
Guest",bg='firebrick2',fg='gold2',activeforeground='black',activebackground='red2').place(x=270
,y=110)
    Radiobutton(Restaurant_screen,text="Restaurant Guest",font = 'bahnschrift 13
bold',variable=r,value="Restaurant
Guest",bg='firebrick2',fg='gold2',activeforeground='black',activebackground='red2').place(x=400
,y=110)
menubutton=Button(Restaurant_screen,text="MENU",fg='gold2',bg='firebrick2',font='bahnschri
ft 15 bold',padx=20,command=menu)
    menubutton.place(x=480,y=40)
confirm_button=Button(Restaurant_screen,text='Confirm',fg='darkgoldenrod1',bg='firebrick2',ac
tivebackground='firebrick2',activeforeground='darkgoldenrod1',font = 'bahnschrift 12
bold',command=findcustomertype)
    confirm_button.place(x=370,y=170)
    mealdropdown=OptionMenu(Restaurant screen,meal,*meallist)
    mealdropdown.place(x=130,y=170)
    mealdropdown.config(bg="firebrick2",font="bahnschrift 13"
bold",fg='gold2',activebackground='firebrick2',activeforeground='darkgoldenrod1')
```

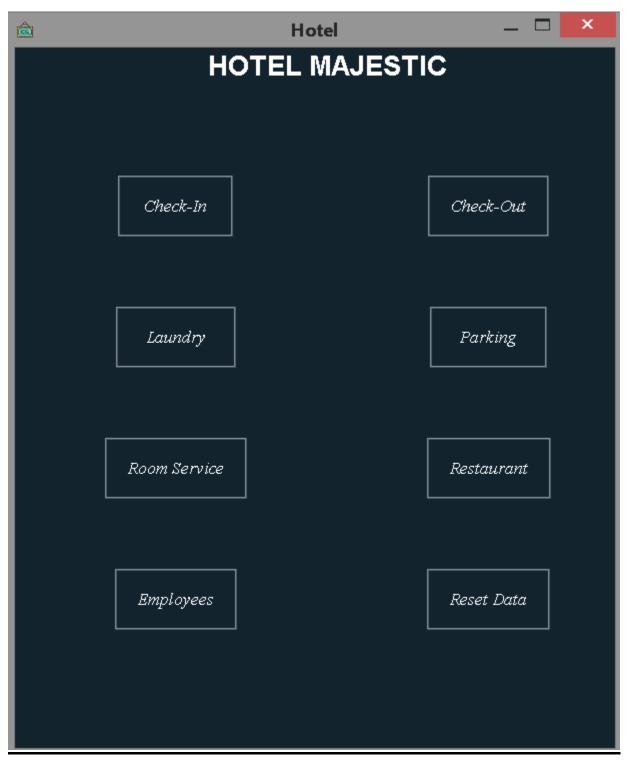
### **EMPLOYEES:**

```
from tkinter import ttk
import tkinter as tk
import mysql.connector
import time
connector = mysql.connector.connect(host = 'localhost', password = 'akhash', user = 'root',
database = 'project')
cursor = connector.cursor()
def employees():
  window=tk.Toplevel()
  window.title("Employees")
  window.resizable(False,False)
  window.geometry('600x600')
  window.configure(bg="slategray1")
tk.Label(window,text="EMPLOYEE",font=("bahnschrift",20,"bold"),pady=20,bg="slategray1").
pack()
  treev=ttk.Treeview(window,show="headings",height="15")
  treev.pack()
  mystyle=ttk.Style()
  mystyle.theme_use("alt")
  mystyle.configure("Treeview",background="light
cyan",fieldbackground="silver",rowheight="25",foreground="white")
  mystyle.map("Treeview",background=[('selected', 'dodger blue')])
  treev["columns"]=("1","2","3","4","5")
  treev['show']='headings'
  treev.column("1", width=100, anchor='c')
  treev.column("2", width=100, anchor='c')
```

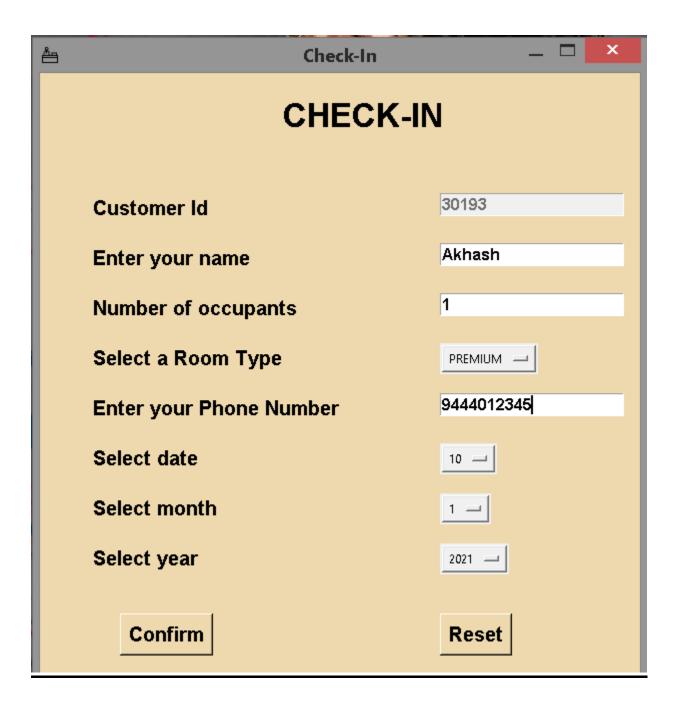
```
treev.column("3", width=100, anchor='c')
  treev.column("4", width=100, anchor='c')
  treev.column("5", width=100,anchor='c')
  treev.heading("1", text="EMP_ID")
  treev.heading("2", text="EMP NAME")
  treev.heading("3", text="DUTY")
  treev.heading("4", text="DATE OF JOIN")
  treev.heading("5", text="SHIFT")
  #sql queries
  a=time.localtime()
  hours=a[3]
  if hours in [8,9,10,11,12,13,14,15,16]:
    statement1='select EMP_ID,EMP_NAME,DUTY,DATE_OF_JOIN,SHIFT from
employees where SHIFT ="DAY";'
    cursor.execute(statement1)
  if hours in [17,18,19,20,21,22,23,24]:
    statement2='select EMP_ID,EMP_NAME,DUTY,DATE_OF_JOIN,SHIFT from
employees where SHIFT ="EVENING";'
    cursor.execute(statement2)
  if hours in [0,1,2,3,4,5,6,7]:
    statement3='select EMP_ID,EMP_NAME,DUTY,DATE_OF_JOIN,SHIFT from
employees where SHIFT ="NIGHT";'
    cursor.execute(statement3)
  details=cursor.fetchall()
  # adding details
  for j in details:
    treev.insert("", 'end', values=j)
```

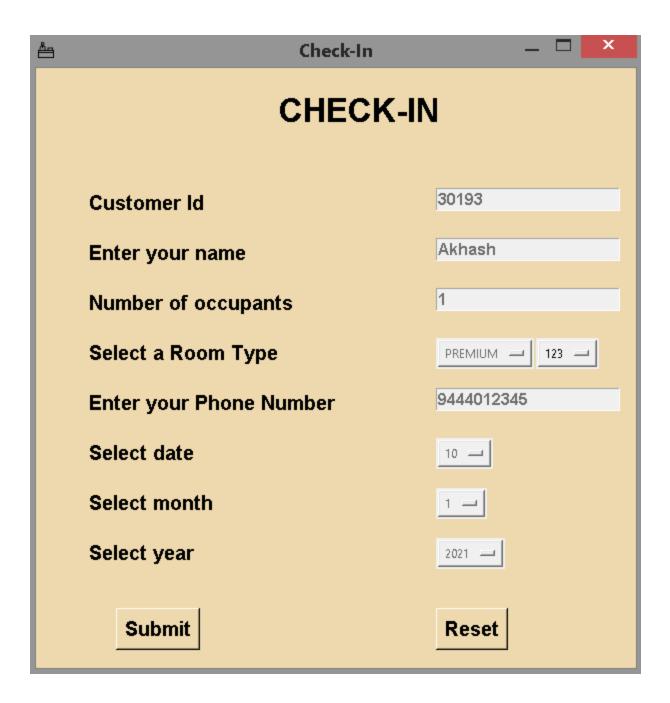
# **SAMPLE OUTPUT:**

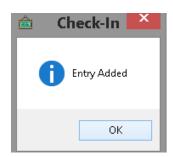
## **MAIN SCREEN:**



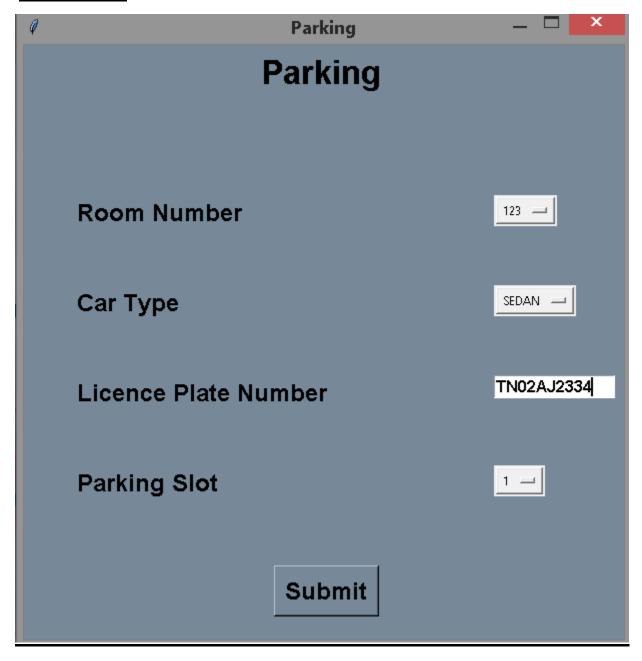
## **CHECKIN:**





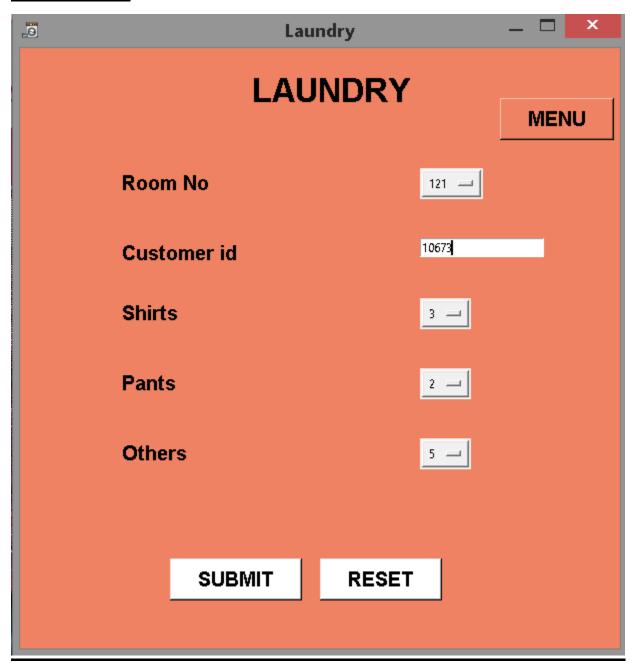


## **PARKING:**



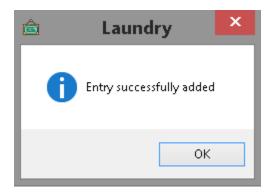


## **LAUNDRY:**

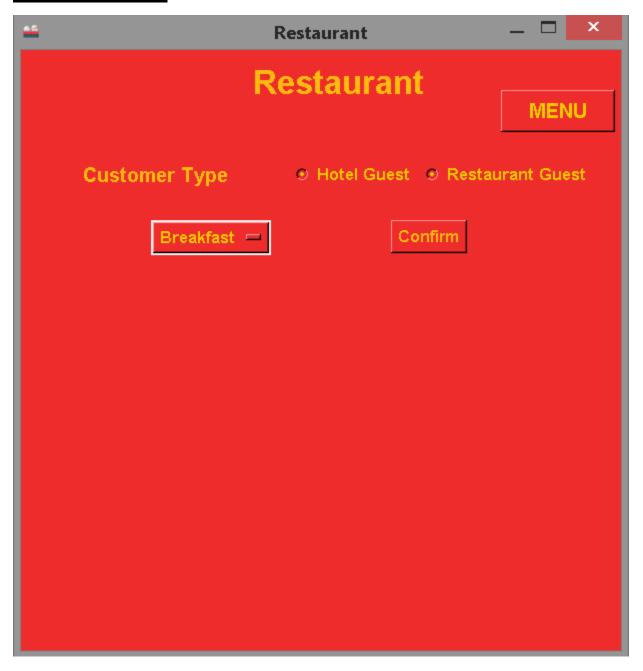


## After pressing "MENU",

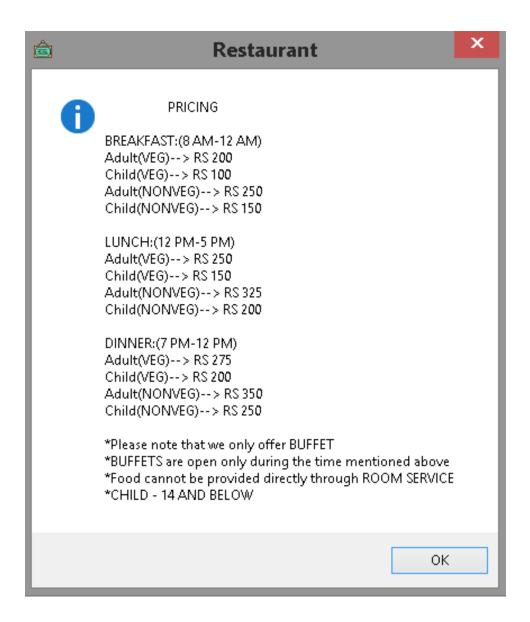




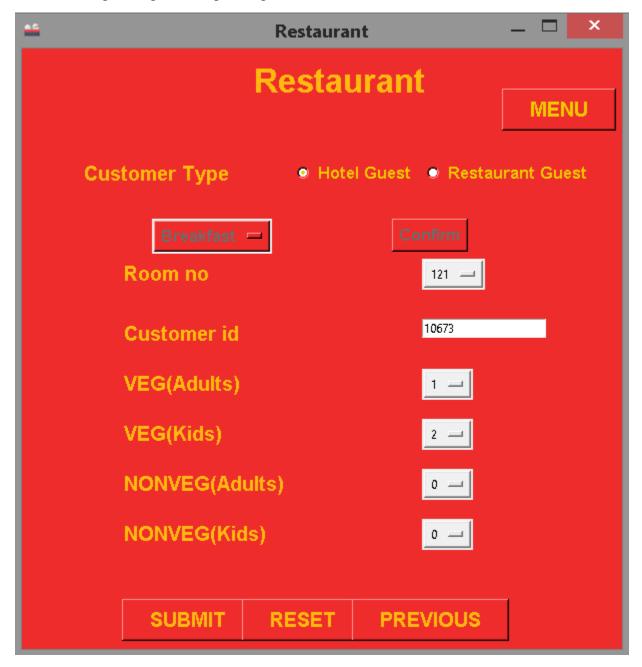
## **RESTAURANT:**

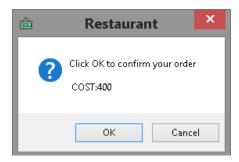


### After pressing "MENU",



After selecting hotel guest and pressing "CONFIRM",

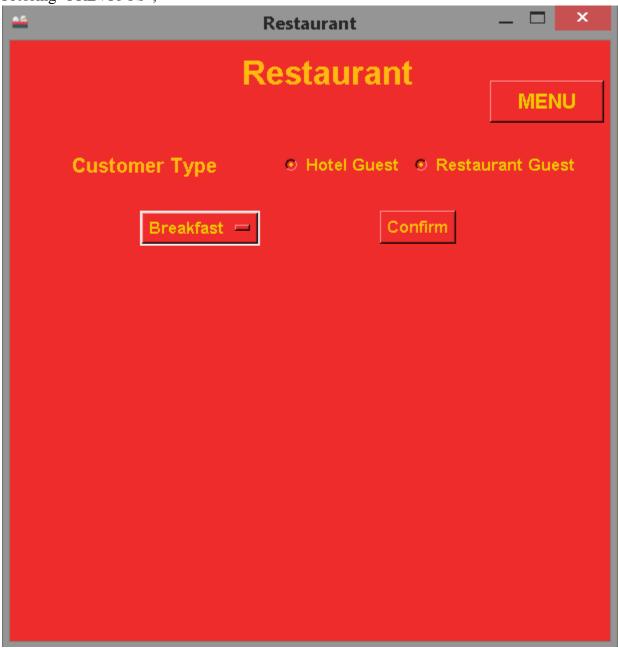




## After pressing "OK",

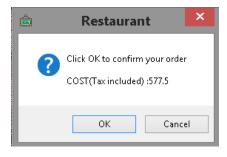


### Pressing "PREVIOUS",

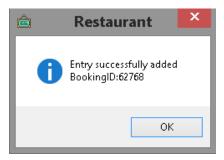


Pressing "CONFIRM" after selecting "Restaurant Guest",





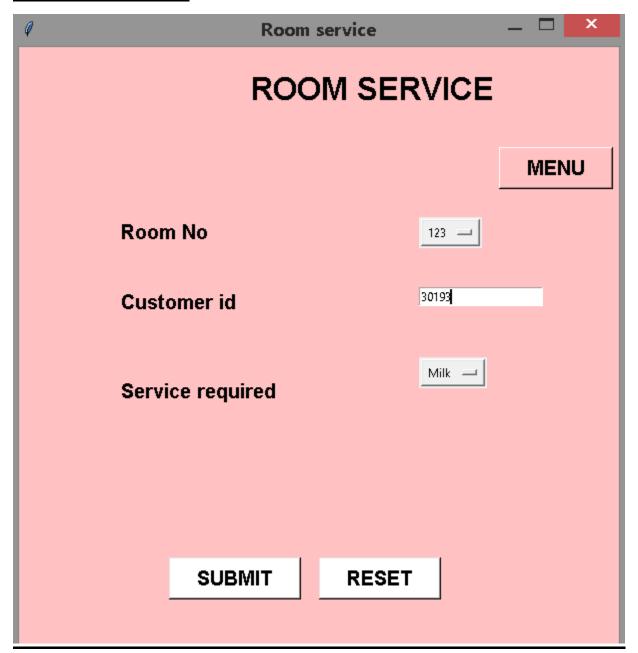
### After pressing "OK"



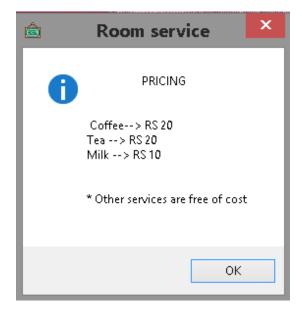
#### Generated bill:



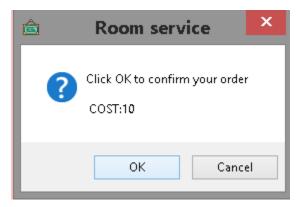
## **ROOM SERVICE:**



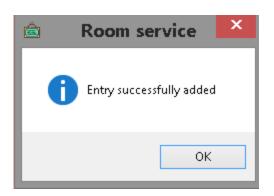
### After pressing "MENU",



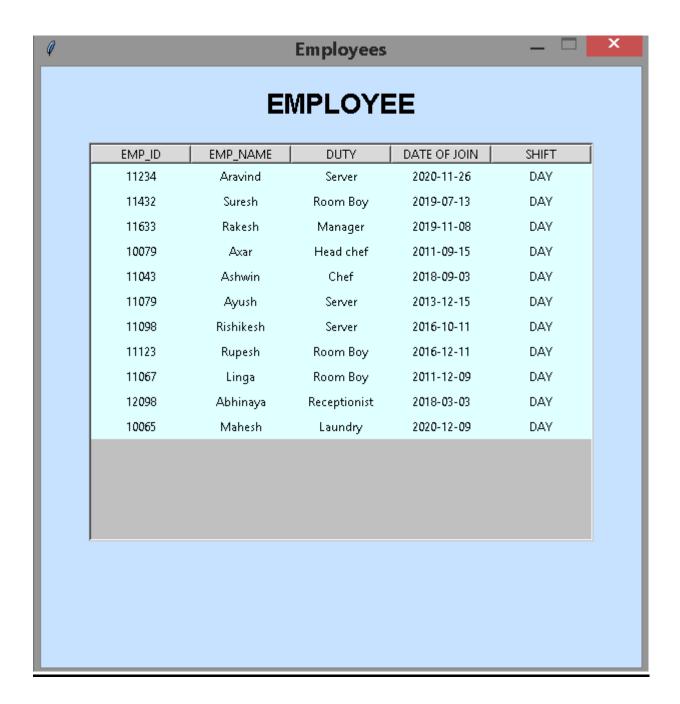
### After pressing "SUBMIT",



### After pressing "OK",

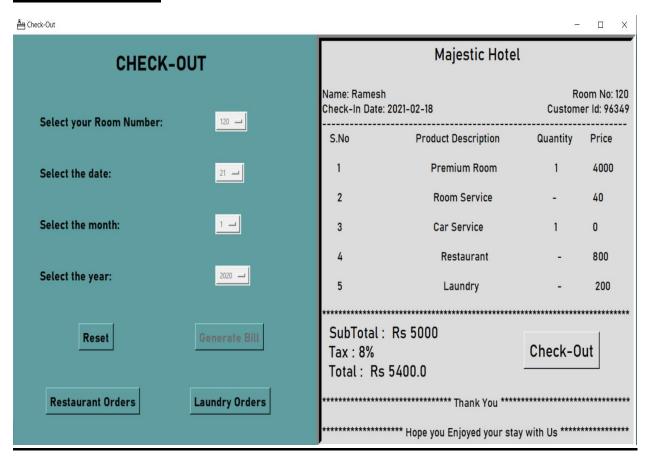


## **EMPLOYEES:**

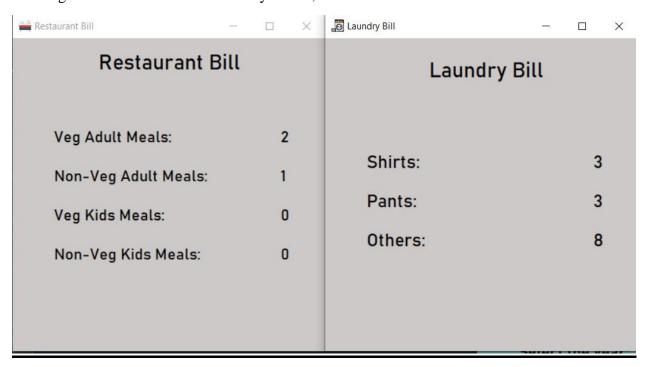


Employees belonging to the shift based on the time of the day is displayed in the screen.

## **CHECKOUT:**



#### Pressing Restaurant orders and Laundry orders,



# **RESET DATA:**



If the correct password is entered, the entire data is erased.

# **SQL TABLES:**

Tables present in the project database with example contents.



TABLE: customers

NAME	ROOM_NO	OCCUPANTS	CHECK_IN	CUSTOMER_ID	PH_NUMBER	STATUS	ROOM_TYPE
NULL	100	NULL	NULL	NULL	NULL	FREE	NULL
abc	101	1	2020-02-08	35267	273937584	OCCUPIED	NORMAL
NULL	102	NULL	NULL	NULL	NULL	FREE	NULL
NULL	103	NULL	NULL	NULL	NULL	FREE	NULL
NULL	104	NULL	NULL	NULL	NULL	FREE	NULL
NULL	105	NULL	NULL	NULL	NULL	FREE	NULL
NULL	106	NULL	NULL	NULL	NULL	FREE	NULL
NULL	107	NULL	NULL	NULL	NULL	FREE	NULL
NULL	108	NULL	NULL	NULL	NULL	FREE	NULL
NULL	109	NULL	NULL	NULL	NULL	FREE	NULL
NULL	110	NULL	NULL	NULL	NULL	FREE	NULL
NULL	111	NULL	NULL	NULL	NULL	FREE	NULL
NULL	112	NULL	NULL	NULL	NULL	FREE	NULL
NULL	113	NULL	NULL	NULL	NULL	FREE	NULL
NULL	114	NULL	NULL	NULL	NULL	FREE	NULL
NULL	115	NULL	NULL	NULL	NULL	FREE	NULL
NULL	116	NULL	NULL	NULL	NULL	FREE	NULL
NULL	117	NULL	NULL	NULL	NULL	FREE	NULL
NULL	118	NULL	NULL	NULL	NULL	FREE	NULL
NULL	119	NULL	NULL	NULL	NULL	FREE	NULL
NULL	120	NULL	NULL	NULL	NULL	FREE	NULL
a	121	1	2021-01-06	10673	9444709124	OCCUPIED	PREMIUM
NULL	122	NULL	NULL	NULL	NULL	FREE	NULL
Akhash	123	1	2021-01-10	30193	9444012345	OCCUPIED	PREMIUM
NULL	124	NULL	NULL	NULL	NULL	FREE	NULL
NULL	125	NULL	NULL	NULL	NULL	FREE	NULL

# TABLE: parking

CAR_TYPE	L_PLATE	P_SLOT	STATUS	ROOM_NO
NULL	NULL	NULL	OCCUPIED	101
NULL	NULL	NULL	NULL	102
NULL	NULL	NULL	NULL	103
NULL	NULL	NULL	NULL	104
NULL	NULL	NULL	NULL	105
NULL	NULL	NULL	NULL	106
NULL	NULL	NULL	NULL	107
NULL	NULL	NULL	NULL	108
NULL	NULL	NULL	NULL	109
NULL	NULL	NULL	NULL	110
NULL	NULL	NULL	NULL	111
NULL	NULL	NULL	NULL	112
NULL	NULL	NULL	NULL	113
NULL	NULL	NULL	NULL	114
NULL	NULL	NULL	NULL	115
NULL	NULL	NULL	NULL	116
NULL	NULL	NULL	NULL	117
NULL	NULL	NULL	NULL	118
NULL	NULL	NULL	NULL	119
NULL	NULL	NULL	NULL	120
HATCHBACK	TN03AP	5	OCCUPIED	121
NULL	NULL	NULL	NULL	122
SEDAN	TN02AJ	1	OCCUPIED	123
NULL	NULL	NULL	NULL	124
NULL	NULL	NULL	NULL	125

TABLE: employees

EMP_ID	EMP_NAME	DUTY	DATE_OF_JOIN	SALARY	SHIFT
11234	Aravind	Server	2020-11-26	7500	DAY
11233	Shekar	Manager	2020-10-27	35000	EVENING
11322	Shubash	Room Boy	2019-07-23	5000	NIGHT
11432	Suresh	Room Boy	2019-07-13	5000	DAY
11071	Ramesh	Room Boy	2018-08-03	5000	EVENING
11633	Rakesh	Manager	2019-11-08	35000	DAY
10079	Axar	Head chef	2011-09-15	50000	DAY
11043	Ashwin	Chef	2018-09-03	25000	DAY
11079	Ayush	Server	2013-12-15	7500	DAY
11098	Rishikesh	Server	2016-10-11	7500	DAY
11123	Rupesh	Room Boy	2016-12-11	5000	DAY
11067	Linga	Room Boy	2011-12-09	5000	DAY
12098	Abhinaya	Receptio	2018-03-03	30000	DAY
10065	Mahesh	Laundry	2020-12-09	5000	DAY

TABLE: laundry

ROOM_NO	SHIRTS	PANTS	OTHERS	TOTAL
100	0	0	0	0
101	0	0	0	0
102	0	0	0	0
103	0	0	0	0
104	0	0	0	0
105	0	0	0	0
106	0	0	0	0
107	0	0	0	0
108	0	0	0	0
109	0	0	0	0
110	0	0	0	0
111	0	0	0	0
112	0	0	0	0
113	0	0	0	0
114	0	0	0	0
115	0	0	0	0
116	0	0	0	0
117	0	0	0	0
118	0	0	0	0
119	0	0	0	0
120	0	0	0	0
121	6	4	10	290
122	0	0	0	0
123	0	0	0	0
124	0	0	0	0
125	0	0	0	0

TABLE: laundry\_history

ROOM_NO	SHIRTS	PANTS	OTHERS	TOTAL	DATE	TIME	CUSTOMER_ID
100	3	1	0	70	2020-11-16	08:24:57	12345
100	6	1	7	185	2020-11-16	08:25:11	12345
100	3	0	0	45	2020-11-19	15:03:28	12345
100	1	1	0	40	2020-11-20	20:14:16	12345
100	2	0	0	30	2020-11-23	15:31:01	12345
100	3	0	0	45	2020-11-23	21:42:03	12345
100	3	0	13	175	2020-12-07	10:56:28	12345
100	3	0	1	55	2020-12-07	10:58:48	12345
100	2	0	1	40	2021-01-05	11:08:57	12345
121	3	2	5	145	2021-02-13	14:12:30	10673
121	3	2	5	145	2021-02-13	14:18:56	10673

TABLE: restaurant

BOOKING_ID	CUSTOMER_TYPE	CUSTOMER_ID	ADULTS_VEG	CHILDREN_VEG	ADULTS_NONVEG	CHILDREN_NONVEG	TOTAL	DATE	TIME
NULL	Hotel Guest	10673	1	0	0	0	200	2021-01-12	16:21:57
NULL	Hotel Guest	10673	1	2	0	0	400	2021-01-12	16:26:41
NULL	Hotel Guest	10673	1	2	0	0	430	2021-01-12	16:38:46
NULL	Hotel Guest	10673	1	0	0	0	200	2021-01-13	08:08:14
NULL	Hotel Guest	10673	1	0	0	0	200	2021-01-13	08:22:40
NULL	Hotel Guest	10673	1	2	0	0	400	2021-02-13	14:23:14
62768	Restaurant Guest	NULL	1	2	0	0	578	2021-02-13	14:23:48
59461	Restaurant Guest	NULL	1	2	0	0	420	2021-02-13	15:06:09

TABLE: roomservice

ROOM_NO	SERVICE	TOTAL	DATE	TIME
121	Milk	10	2021-03-04	11:25:08
121	Coffee	20	2021-03-04	11:25:42
123	Milk	10	2021-03-04	11:26:10
123	Tea	20	2021-03-04	11:26:27

Once customers checkout from the hotel, their details are added to customer\_history.

TABLE: customer\_history

NAME	ROOM_NO	OCCUPANTS	CHECK_IN	CHECK_OUT	CUSTOMER_ID	PH_NUMBER	DAYS_STAYED	TOTAL	ROOM_TYPE
abc	101	1	2020-02-08	2021-03-04	35267	273937584	390	975000	NORMAL
a	121	1	2021-01-06	2021-03-04	10673	9444709124	57	266998	PREMIUM
Akhash	123	1	2021-01-10	2021-03-05	30193	9444012345	54	244944	PREMIUM

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