HOTEL MANAGEMENTS SYSTEM

A PROJECT REPORT

Submitted

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BONA-FIDE CERTIFICATE

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Seal Principal

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INTRODUCTION

The project is titled "Hotel management System". The program manages different varieties of services offered by the hotel for customers and different costs of each service.

The initial data required was first entered by creating a MySQL database and entering different services offered by the hotel and their respective costs.

The summing up of total cost of the service offered and the interpretation of the initial data was done by the python MySQL interface

The user identifies the Services he/she requires and gives the service code as input, the program selects the items and calculates a total bill the user is supposed to pay.

ABOUT PYTHON

- Python is a widely-used, interpreted, object-oriented, and high-level programming language with dynamic semantics, used for general-purpose programming. It was created by Guido van Rossum, and first released on February 20, 1991.
- Python programming language comes from an old BBC television comedy sketch series called Monty Python's Flying Circus.
- One of the amazing features of Python is the fact that it is actually one person's work. Usually, new programming languages are developed and published by large companies employing lots of professionals, and due to copyright rules, it is very hard to name any of the people involved in the project. Python is an exception.
- Of course, van Rossum did not develop and evolve all the Python components himself. The speed with which Python has spread around the world is a result of the continuous work of thousands (very often anonymous) programmers, testers, users (many of them aren't IT specialists),

and enthusiasts, but it must be said that the very first idea

(the seed from which Python sprouted) came to one head – Guido's.

Python goals:

In 1999, Guido van Rossum defined his goals for Python:

- 1. An easy and intuitive language just as powerful as those of the major competitors;
- 2. Open-source, so anyone can contribute to its development;
- 3. Code that is as understandable as plain English
- 4. Suitable for everyday tasks, allowing for short development times.

Why Python?

- 1. It's easy to learn the time needed to learn Python is shorter than for many other languages; this means that it is possible to start the actual programming faster
- 2. it's easy to teach the teaching workload is smaller than that needed by other languages. This means that the teacher can put more emphasis on general techniques, not wasting energy on exotic tricks, strange exceptions and incomprehensible rules.
- 3. it's easy to use for writing new software it's often Possible to write code faster when using python.
- 4. it's easy to understand it's also often easier to understand someone else's code faster when written In python

OBJECTIVE OF PROJECT

The primary objective of the program is to simplify the complex system of billing in hotels.

The program calculates the total and subtotal for the customer with ease, instead of making the customer go through the tedious process of calculating the total amount he/she has to pay.

SCOPE OF PROJECT

This project has further scope of improvement in the future to make it economical and useful for commercial use.

The program currently contains primarily only a fixed list of services with fixed prices of services without calculating taxes, the program can be advanced by:

- Updating tax rates
- Varying the sale price with algorithms so as to profit from each service
- Making and integrated database system by creating a user database
- Introduce online booking systems with relative ease.
- Introducing Financials of the hotel into the database so as to adjust rates.

And much more innovations can be made.

INPUT AND OUTPUT

- The Input expected from the user is only the codes of the services chosen by him/her.
- The Output expected would simply be the total cost of the services offered.

HARDWARE AND SOFTWARE REQUIREMENTS

SOFTWARE:

Python Idle

Python 3.9.0 shell

Mozilla firefox

Google chrome

Windows 10 pro OS

Adobe Reader XI

MySQL 8.0.30.0

HARDWARE:

- HP laptop
- Wi-fi Modem

SYSTEM DESIGN

DECLARATION OF GLOBAL VARIABLES ESTABLISHING PYTHON SQL CONNECTION STORING OF CUSTOMER DETAILS BOOKING ROOM FOR CUSTOMER CALCULATING ROOM RENT CALCULATING RESTAURANT BILL CALCULATING GAMING BILL CALCULATING FASHION STORE BILL

DISPLAYING CUSTOMER DETAILS

GENERATING TOTAL BILL AMOUNT

GENERATING OLD BILL

EXITING THE PROGRAM

SOURCE CODE

```
import mysql.connector
# GLOBAL VARIABLES DECLARATION
myConnnection=""
cursor=""
userName=""
password =""
roomrent =0
restaurentbill=0
gamingbill=0
fashionbill=0
totalAmount=0
cid=" "
#MODULE TO CHECK MYSQL CONNECTIVITY
 def
           MYSQLconnectionCheck():
           global myConnection
         global username global
         password
  userName = input("\n ENTER MYSQL SERVER'S USERNAME : ")
  password = input("\n ENTER MYSQL SERVER'S PASSWORD : ")
 my Connection = my sql. connect or. connect (host = "local host", user = user Name, passwd = password", user = user Name, password = password", user = user Name, password = pa
 auth_plugin='mysql_native_password')
```

```
if myConnection:
    print("\n CONGRATULATIONS! YOUR MYSQL CONNECTION HAS BEEN ESTABLISHED!")
   cursor=myConnection.cursor()
   cursor.execute("CREATE DATABASE IF NOT EXISTS HMS")
   cursor.execute("COMMIT")
   cursor.close()
    returnmyConnection
    else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION CHECK USERNAME AND PASSWORD !")
#MODULE TO ESTABLISHED MYSQL CONNECTION
def MYSQLconnection ()
   global userName
    global password
    global
 global cid
  myConnection=mysql.connector.connect(host="localhost",user=userName,passwd=passwor
d, database="HMS", auth_plugin='mysql_native_password')
  if myConnection:
    else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
    myConnection.close()
defuserEntry()
 global cid
 if myConnection:
   cursor=myConnection.cursor(
createTable ="""CREATE TABLE IF NOT EXISTS C DETAILS(CID
VARCHAR(20), C_NAMEVARCHAR(30), C_ADDRESS VARCHAR(30), C_AGE
VARCHAR(30),
```

```
C_COUNTRY VARCHAR(30), P_NO VARCHAR(30), C_EMAIL VARCHAR(30))"""
   cursor.execute(createTable)
   cid = input("Enter Customer Identification Number : ")
   name = input("Enter Customer Name: ")
    address = input("Enter Customer
   Address: ")
   age= input("Enter Customer Age: ")
   nationality = input("Enter Customer Country : ")
   phoneno= input("Enter Customer Contact Number : ")
   email = input("Enter Customer Email : ")
   sql = "INSERT INTO C_Details VALUES(%s,%s,%s,%s,%s,%s,%s,%s)"
   values=
   (cid,name,address,age,nationality,phoneno,email)
   cursor.execute(sql,values)
   cursor.execute("COMMIT")
   print("\nNew Customer Entered In The System Successfully !")
   cursor.close()
  else:
     print("\nERROR ESTABLISHING MYSQL CONNECTION !")
def bookingRecord():
global cid
customer=searchCustomer()
if customer:
  if myConnection:
    cursor=myConnection.cursor()
    createTable ="CREATE TABLE IF NOT EXISTS BOOKING_RECORD(CID
VARCHAR(20), CHECK_INDATE, CHECK_OUT DATE)"
    cursor.execute(createTable)
    checkin=input("\n Enter Customer CheckIN Date [ YYYY-MM-DD ] : ")
    checkout=input("\n Enter Customer CheckOUT Date [ YYYY-MM-DD ] : ")
    sql= "INSERT INTO BOOKING_RECORD VALUES(%s,%s,%s)"
```

```
values=(cid,checkin,checkout)
     cursor.execute(sql,values)
     cursor.
     execute("COMMIT")
      print("\nCHECK-IN AND CHECK-OUT ENTRY ADDED SUCCESSFULLY !")
     cursor.close()
  else:
       print("\nERROR ESTABLISHING MYSQL CONNECTION !")
 def roomRent():
   global cid
   customer=searchCustomer(
   ifcustomer:
   global roomrent
if my Connection:
     cursor=myConnection.cursor()
     createTable ="""CREATE TABLE IF NOT EXISTS ROOM_RENT(CID
 VARCHAR(20), ROOM_CHOICEINT, NO_OF_DAYS INT, ROOMNO INT , ROOM RENT INT)"""
     cursor.execute(createTable)
     print ("\n ##### We have The Following Rooms For You #####")
     print (" 1. Ultra Royal
                           > 10000
     Rs.") print (" 2. Royal > 5000 Rs. ")
     print (" 3. Elite
                        > 3500 Rs. ")
     print (" 4. Budget
                           > 2500 USD ")
     roomchoice =int(input("Enter Your Option : "))
     roomno=int(input("Enter Customer Room No:"))
     noofdays=int(input("Enter No. Of Days : "))
```

```
if roomchoice==1:
      roomrent = noofdays * 10000
      print("\nUltra Royal Room Rent : ",roomrent)
   elif roomchoice==2:
      roomrent = noofdays * 5000
      print("\nRoyal Room Rent : ",roomrent)
   elif roomchoice==3:
      roomrent = noofdays * 3500
      print("\nElite Royal Room Rent : ",roomrent)
      elif roomchoice==4:
      roomrent = noofdays * 2500
      print("\nBudget Room Rent : ",roomrent)
   else:
      print("Sorry, May Be You Are Giving Me Wrong Input, Please Try Again!!!")
      return
   sql= "INSERT INTO ROOM_RENT VALUES(%s,%s,%s,%s,%s)"
   values=(cid,roomchoice,noofdays,roomno,roomrent,)
   cursor.execute(sql,values)
   cursor.execute("COMMIT")
   print("Thank You, Your Room Has Been Booked For: ",noofdays, "Days")
   print("Your Total Room Rent is : Rs. ",roomrent)
   cursor.close()
 else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
def Restaurent():
global cid
```

customer=searchCustomer()

```
if customer:
  global
  restaurentbill
  if myConnection:
    cursor=myConnection.cursor(
createTable ="""CREATE TABLE IF NOT EXISTS RESTAURENT(CID
VARCHAR(20), CUISINEVARCHAR(30), QUANTITY VARCHAR(30), BILL VARCHAR(30))
cursor.execute(createTable)
    print("1. Vegetarian Combo
                                            > 300 Rs.")
    print("2. Non-Vegetarian Combo
                                               > 500 Rs.")
    print("3. Vegetarian & Non-Vegetarian Combo
                                                     > 750 Rs.")
    choice_dish = int(input("Enter Your Cusine : "))
    quantity=int(input("Enter Quantity: "))
    if choice_dish==1:
      print("\nSO YOU HAVE ORDER: Vegetarian Combo ")
    restaurentbill = quantity * 300
    elif choice_dish==2:
      print("\nSO YOU HAVE ORDER: Non-Vegetarian Combo ")
      restaurentbill = quantity * 500
    elif choice_dish==3:
       print("\nSO YOU HAVE ORDER: Vegetarian & Non-Vegetarian Combo ")
```

restaurentbill= quantity * 750

```
else:
      print("Sorry, May Be You Are Giving Me Wrong Input, Please Try Again!!!")return
    sql= "INSERT INTO RESTAURENT VALUES(%s,%s,%s,%s)"
    values=(cid,choice_dish,quantity,restaurentbill)
    cursor.execute(sql,values)
    cursor.execute("COMMIT")
    print("Your Total Bill Amount Is : Rs. ",restaurentbill)
    print("\n\n**** WE HOPE YOU WILL ENJOY YOUR MEAL ***\n\n" )
    cursor.close()
  else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
def Gaming():
global cid
customer=searchCustomer()
if customer:
  global gamingbill
  if myConnection:
    cursor=myConnection.cursor()
    createTable ="""CREATE TABLE IF NOT EXISTS GAMING(CID
VARCHAR(20), GAMES VARCHAR(30), HOURS VARCHAR(30), GAMING_BILL
VARCHAR(30))
           111111
    cursor.execute(createTable)
           print("""
           1. Table Tennis
                                > 150 Rs./HR
                              > 100 Rs./HR
           2. Bowling
```

```
3. Snooker
                         > 250 Rs./HR
      4. VR World Gaming
                              > 400 Rs./HR
      5. Video Games
                           > 300 Rs./HR
      6. Swimming Pool Games ----> 350 Rs./HR
      7. Exit
game=int(input("Enter What Game You Want To Play: "))
hour=int(input("Enter No Of Hours You Want To Play: "))
if game==1:
    print("YOU HAVE SELECTED TO PLAY: Table Tennis")
    gamingbill = hour * 150
elif game==2:
    print("YOU HAVE SELECTED TO PLAY : Bowling")
    gamingbill = hour * 100
    elif game==3:
    print("YOU HAVE SELECTED TO PLAY : Snooker")
    gamingbill = hour * 250
elif game==4:
    print("YOU HAVE SELECTED TO PLAY : VR World Gaming")
    gamingbill = hour * 400
elif game==5:
    print("YOU HAVE SELECTED TO PLAY: Video
    Games")gamingbill = hour *
300 elif game ==6:
    print("YOU HAVE SELECTED TO PLAY: Swimming Pool Games")
    gamingbill = hour * 350
```

```
else:
      print("Sorry, May Be You Are Giving Me Wrong Input, Please Try Again!!!")
      return
   sql= "INSERT INTO GAMING VALUES(%s,%s,%s,%s)"
   values=(cid,game,hour,gamingbill)
   cursor.execute(sql,values)
   cursor.execute("COMMIT")
   print("Your Total Gaming Bill Is : Rs. ",gamingbill)
   print("FOR : ",hour," HOURS","\n *** WE HOPE YOU WILL ENJOY YOUR GAME ***")
   cursor.close()
else:
    print("ERROR ESTABLISHING MYSQL CONNECTION !")
def Fashion():
global cid
customer=searchCustomer()if
customer:
 global fashionbill
 if myConnection:
   cursor=myConnection.cursor()
   createTable ="""CREATE TABLE IF NOT EXISTS FASHION(CID
VARCHAR(20), DRESSVARCHAR(30), AMOUNT VARCHAR(30), BILL VARCHAR(30))"""
   cursor.execute(createTable)
   print("""
         1. Shirts
                        > 1500 Rs.
        2. T-Shirts
                       > 300 Rs.
        3. Pants
                        > 2000 Rs.
        4. Jeans
                        > 4000 Rs.
        5. Tassel top
                        > 500 Rs.
                       > 3000 Rs
              Gown
              Western dress - > 3000 Rs.
```

```
8.Skirts
                       > 400 Rs.
         9.Trousers
                         > 200 Rs.
          10.InnerWear
                            > 30 \text{ Rs}.
      """)
dress=int(input("Enter the your Choice wear: "))
quantity=int(input("How many you want to buy: "))
 if dress==1:
   print("\nShirts"
  )
  fashionbill =
quantity*1500 elif dress==2:
   print("\nT-Shirts")
  fashionbill = quantity*300
elif dress==3:
   print("\nPant")
  fashionbill =
quantity*2000 elif dress==4:
   print("\nJeans")
  fashionbill = quantity
*4000 elif dress==5:
   print("\nTassel top")
  fashionbill = quantity*500
elif dress==6:
print("\nGown")
  fashionbill = quantity *3000
```

```
elif dress==7:
     print("\nWestern dress")
     fashionbill = quantity*3000
     elif dress==8:
    print("\nSkirt")
     fashionbill = quantity * 400
     elif dress==9:
     print("\nTrousers")
     fashionbill = quantity * 200
   elif dress==10:
     print("\nInnerWear")
     fashionbill = quantity * 30
   else:
     print("Sorry, May Be You Are Giving Me Wrong Input, Please Try Again!!!")return
    sql= "INSERT INTO FASHION VALUES(%s,%s,%s,%s)"
   values=(cid,dress,quantity,fashionbill)
   cursor.execute(sql,values)
   cursor.execute("COMMIT")
   print("\nYOU SELECT ITEM NO: ",dress,"\nYOUR QUANTITY IS: ",quantity," ITEMS","\nTHANK
YOU FOR SHOPPING VISIT AGAIN!!!")
   print("\nYour Total Bill Is : ",fashionbill)
   cursor.close()
  else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
def totalAmount():
global cid
customer=searchCustomer()if
```

```
customer:
 global grandTotal
 global roomrent
 global restaurentbill
 global fashionbill
 global gamingbill
 if myConnection:
    cursor=myConnection.cursor()
                   ="""CREATE
    createTable
                                   TABLE
                                             IF
                                                   NOT
                                                           EXISTS
                                                                     TOTAL(CID
VARCHAR(20),C_NAME VARCHAR(30),ROOMRENT
                                                   INT
                                                         ,RESTAURENTBILL
,GAMINGBILL INT,FASHIONBILLINT,TOTALAMOUNT INT)"""
    cursor.execute(createTable)
    sql= "INSERT INTO TOTAL VALUES(%s,%s,%s,%s,%s,%s,%s,%s)"
    name = input("Enter Customer Name : ")
    grandTotal=roomrent + restaurentbill + fashionbill + gamingbill
    values= (cid,name,roomrent,restaurentbill, gamingbill,fashionbill,grandTotal)
    cursor.execute(sql,values)
    cursor.execute("COMMIT")
    cursor.close()
    print("\n **** CROWN PLAZA MIAMI **** CUSTOMER BIILING ****")
    print("\n CUSTOMER NAME : " ,name)
    print("\nROOM RENT : Rs. ",roomrent)
    print("\nRESTAURENT BILL : Rs. ",restaurentbill)
    print("\nFASHION BILL
                           : Rs. ",fashionbill)
    print("\nGAMING BILL : Rs. ",gamingbill)
    print("_____")
```

```
print("\nTOTAL AMOUNT : Rs. ",grandTotal)
    cursor.close()
 else:
     print("\nERROR ESTABLISHING MYSQL CONNECTION !")
def searchOldBill():
global cid
customer=searchCustomer()
if customer:
 if myConnection:
    cursor=myConnection.cursor()
    sql="SELECT * FROM TOTAL WHERE CID= %s"
    cursor.execute(sql,(cid,))
    data=cursor.fetchall()
    if data:
      print(data)
    else:
      print("Record Not Found Try Again !")
    cursor.close()
 else:
    print("\nSomthing Went Wrong ,Please Try Again !")
def
 searchCustomer():
 global cid
 if myConnection:
    cursor=myConnection.cursor()
    cid=input("ENTER CUSTOMER ID:")
    sqI="SELECT * FROM C_DETAILS WHERE CID= %s"
```

```
cursor.execute(sql,(cid,))
    data=cursor.fetchall()
    if data:
      print(data)
      return
      True
    else:
      print("Record Not Found Try Again !")
      return False
    cursor.close()
 else:
    print("\nSomthing Went Wrong ,Please Try Again !")
myConnection = MYSQLconnectionCheck ()
if myConnection:
MYSQLconnection
() while(True):
    print("""
       1--->Enter Customer Detais
       2--->Booking Record
       3--->Calculate Room Rent
       4--->Calculate Restaurant Bill
       5--->Calculate Gaming Bill
       6--->Calculate Fashion store Bill
       7--->Display Customer Details
       8--->GENERATE TOTAL BILL AMOUNT
       9--->GENERATE OLD BILL
       10--->EXIT """)
    choice = int(input("Enter Your Choice"))
```

```
if choice ==
   1:
   userEntry()
elif choice ==2:
   bookingRecord()
elif choice ==3:
  roomRent()
elif choice ==4:
   Restaurent()
elif choice
==5:
  Gaming()
elif choice==6:
Fashion()
  elifchoice==7:
  searchCustomer()
 elif choice ==8:
   totalAmount()
 elif choice ==9:
 searchOldBill()
   elif choice==10:
        break
  else:
  print("Sorry ,May Be You Are Giving Me Wrong Input, Please Try Again !!! ")
  else:
         print("\ n Error ESTABLISHING MYSQ CONNECTION!")
```

THE DATABASE

				-+	· i i					
7 rows in set (0.00 sec)										
mysql> SELECT * FROM C_DETAILS;										
	-+									
L CID	C_NAME	C_ADDRI	ESS	C_AGE	C_COUNTRY	P_NO	C_EMAIL			
++				+		+				
C101	-+ Suzy Sabesti	an 45 str	eet won	25	Australia	76789-32456	Suzy123@gm			
ail.com	 Suzv Sahesti	an 45 str	eet won	l 25	Australia	76789-32456	Suzv123@gm			
ail.com	1									
C102 ail.com	Harry Potter	Hogwart	ts	29	USA	78906-23456	Harry34@gm			
C103 mail.com	Emma Watson	23 pine	e street	28	Canada	76549-45678	Emma2345@g			
C104	Selena Gomez	228 Pai	rk Ave	26	USA	74325-12121	Selena45@g			
mail.com		r I new min	ne street	24	USA	74256-67654	iustbib@gm			
ail.com										
	-+			+		+	+			
6 rows in	n set (0.00 s	ec)								
mysql> _								V		
7 rows	in set (0	.07 sec)						^		
mysals	SELECT *	EROM EASI	HTON:							
+	++		++							
CID	DRESS	AMOUNT	BILL							
C101	5	2	1000							
C102	8	1	400							
C103 C104	9	2 1	400 4000							
			30							
+	in set (0	99 595)	++							
mysql>	SELECT *	FROM GAMI	ING;							
CID	GAMES	HOURS	GAMING_B	ILL						
+	++		400	+						
C101	2		100 800	- 1						
C103	3		500							
	6		800 1050	- 1						
+	++	+-		+						
5 rows	in set (0	.01 Sec)								
mysql>										
								~		
mysql> SE	ELECT * FROM I	BOOKING RECO	ORD;					^		
++-			+							
CID	CHECK_IN	CHECK_OUT	 -+							
C101	2020-01-11 2020-01-11	2020-01-16								
C101 C102	2020-01-11	2020-01-16 2020-01-08								
C103	2020-01-06 2019-12-25									
	2020-01-01 2020-02-14	2020-01-05 2020-02-16	1							
++-			+							
o rows in	n set (0.00 s	ec)								
mysql> SE	LECT * FROM I	ROOM_RENT;								
CID	ROOM_CHOICE	NO OF DAYS	F ROOMNO	ROOMREN	т					
++-		+	+	+						
C101 C101	1 1		5 420 5 420	6006 6006						
C102	2	į	520	1500	99					
C103 C104	1 1		7 620 5 820	7006 5006						
C105	1		345	3006						
6 rows in	++									
mysql>								~		

```
NULL
  BILL | varchar(30) | YES |
4 rows in set (0.99 sec)
mysql> SELECT * FROM RESTAURENT;
 CID | CUISINE | QUANTITY | BILL |
 C101 | 3
C101 | 3
C102 | 2
C103 | 2
C104 | 2
C105 | 3
                   2
2
1
1
2
3
                               1500
                               1500
                               500
                               1000
                               1500
                               3000
6 rows in set (0.18 sec)
mysql>
  C104 | 2
C105 | 3
                              | 1500 |
| 3000 |
            | 3
| 4
6 rows in set (0.00 sec)
mysql> SELECT * FROM TOTAL;
                        | ROOMRENT | RESTAURENTBILL | GAMINGBILL | FASHIONBILL |
 CID | C_NAME
 TOTALAMOUNT |
 C101 | Suzy Sabestian | 60000 |
                                                  1500 |
                                                                 800
       65300 |
 C102 | Harry Potter | 15000 |
17800 |
C103 | Emma Watson | 70000 |
71350 |
                                                  500
                                                                               1500
                                                                 800 |
                                                  1000 |
                                                                 350
  C104 | Selena Gomez | 50000 |
                                                  1500 |
                                                                 100
                                                                              6000
  57600 |
C105 | Justin Bieber | 30000 |
                                                  3000
                                                                 900
                                                                              12000 |
       45900
5 rows in set (0.00 sec)
mysql> _
```

DATABASE TABLE STRUCTURE

```
rows in set (0.02 sec)
mysql> DESCRIBE FASHION;
  Field | Type
                           | Null | Key | Default | Extra |
            varchar(20)
varchar(30)
varchar(30)
varchar(30)
                                            NULL
  DRESS
AMOUNT
                             YES
YES
                                            NULL
NULL
                                            NULL
 rows in set (0.00 sec)
mysql> DESCRIBE GAMING;
              Type
 Field
                                 | Null | Key | Default | Extra
 CID | varchar(20)
GAMES | varchar(30)
HOURS | varchar(30)
GAMING_BILL | varchar(30)
                                   YES
                                                  NULL
                                                  NULL
                                   YES
YES
                                                  NULL
NULL
.
4 rows in set (0.00 sec)
nvsal>
Type 'help;' or '\h' for help. Type '\c' to clear the current input stateme ^
mysql> USE HMS;
Database changed
mysql> DESCRIBE ROOM_RENT;
  Field
                    | Type
                                         Null | Key | Default | Extra
  CID
                      varchar(20)
                                          YES
                                                            NULL
                     int(11)
int(11)
int(11)
int(11)
  ROOM_CHOICE
                                          YES
                                                            NULL
  NO_OF_DAYS
ROOMNO
                                          YES
YES
                                                            NULL
                                                            NULL
                                          YES
  ROOMRENT
                                                            NULL
  rows in set (1.52 sec)
mysql> DESCRIBE RESTAURENT;
  Field
                                   | Null | Key | Default | Extra
               | Type
                 varchar(20)
varchar(30)
varchar(30)
varchar(30)
                                      YES
                                                        NULL
  CUISINE
                                                        NULL
  OUANTITY
                                      YES
                                                        NULL
                                     YES
  BILL
                                                        NULL
  rows in set (0.10 sec)
mysql>
```

```
4 rows in set (0.10 sec)
mysql> DESCRIBE TOTAL;
| Field
                  Type
                                  | Null | Key | Default | Extra |
CID
                  | varchar(20)
                                  YES
                                                  NULL
 C NAME
                  varchar(30)
                                   YES
                                                  NULL
 ROOMRENT | int(11)
RESTAURENTBILL | int(11)
GAMINGBILL | int(11)
                                   YES
                                                  NULL
                                   YES
                                                  NULL
                                   YES
                                                  NULL
                   int(11)
 FASHIONBILL
                                   YES
                                                  NULL
                                                NULL
 TOTALAMOUNT | int(11)
                                   YES
7 rows in set (0.04 sec)
mysql>
```

Output of the Project

```
ENTER MYSQL SERVER'S USERNAME : root
 ENTER MYSQL SERVER'S PASSWORD : root
 CONGRATULATIONS ! YOUR MYSQL CONNECTION HAS BEEN ESTABLISHED !
                    1--->Enter Customer Details
                    2--->Booking Record
3--->Calculate Room Rent
                    4--->Calculate Restaurant Bill
                    5--->Calculate Gaming Bill
6--->Calculate Fashion store Bill
                    7--->Display Customer Details
8--->GENERATE TOTAL BILL AMOUNT
                    9--->GENERATE OLD BILL
                    10--->EXIT
Enter Your Choicel
Enter Customer Identification Number :
Enter Customer Name : Suzy Sabestian
Enter Customer Address : 45 street won
Enter Customer Age : 25
Enter Customer Country : Australia
                                                          : C101
Enter Customer Country : Australia
Enter Customer Contact Number : 76789-32
Enter Customer Email : Suzyl23@gmail.com
                                                    76789-32456
New Customer Entered In The System Successfully !
                    1--->Enter Customer Details
                    2--->Booking Record
3--->Calculate Room Rent
                    4--->Calculate Restaurant Bill
```

```
File Edit Shell Debug Ser Enter Customer Address : 45 street won Enter Customer Age : 25 Customer Country : Australia : 76789-32456
Enter Customer Email : Suzyl23@gmail.com
New Customer Entered In The System Successfully !
                     1--->Enter Customer Details
                     2--->Booking Record
                     3--->Calculate Room Rent
4--->Calculate Restaurant Bill
5--->Calculate Gaming Bill
                     5--->Calculate Gaming Bill
6--->Calculate Fashion store Bill
7--->Display Customer Details
8--->GENERATE TOTAL BILL AMOUNT
9--->GENERATE OLD BILL
                     10--->EXIT
Enter Your Choice2
ENTER CUSTOMER ID : C101
[('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', '
Suzy123@gmail.com')]
 Enter Customer CheckIN Date [ YYYY-MM-DD ] : 2020-01-11
 Enter Customer CheckOUT Date [ YYYY-MM-DD ] : 2020-01-16
CHECK-IN AND CHECK-OUT ENTRY MADED SUCCESSFULLY !
                      1--->Enter Customer Details
                     2--->Booking Record
                      3--->Calculate Room Rent
                     3--->Calculate Room Rent
4--->Calculate Restaurant Bill
5--->Calculate Gaming Bill
6--->Calculate Fashion store Bill
7--->Display Customer Details
8--->GENERATE TOTAL BILL AMOUNT
9--->GENERATE OLD BILL
                     10--->EXIT
Enter Your Choice
```

```
Enter Your Choice3
ENTER CUSTOMER ID : C101
[('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', '
Suzy123@gmail.com')]
 ##### We have The Following Rooms For You #####
 1. Ultra Royal ----> 10000 Rs.
 2. Royal ----> 5000 Rs.
3. Elite ----> 3500 Rs.
4. Budget ----> 2500 USD
Enter Your Option : 1
Enter Customer Room No : 420
Enter No. Of Days : 6
Enter No. Of Days
Ultra Royal Room Rent : 60000
Thank You , Your Room Has Been Booked For : 6 Days Your Total Room Rent is : Rs. 60000
              1--->Enter Customer Details
               2--->Booking Record
               3--->Calculate Room Rent
               4--->Calculate Restaurant Bill
               5--->Calculate Gaming Bill
               6--->Calculate Fashion store Bill
               7--->Display Customer Details
              8--->GENERATE TOTAL BILL AMOUNT
              9--->GENERATE OLD BILL
              10--->EXIT
```

```
Enter Your Choice4
ENTER CUSTOMER ID : C101
[('ClOl', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', '
Suzy123@gmail.com')]
1. Vegetarian Combo
                                     ----> 300 Rs.
2. Non-Vegetarian Combo
                                     ----> 500 Rs.
3. Vegetarian & Non-Vegetarian Combo ----> 750 Rs.
Enter Your Cusine : 3
Enter Quantity: 2
SO YOU HAVE ORDER: Vegetarian & Non-Vegetarian Combo
Your Total Bill Amount Is : Rs.
**** WE HOPE YOU WILL ENJOY YOUR MEAL ***
             1--->Enter Customer Details
             2--->Booking Record
             3--->Calculate Room Rent
             4--->Calculate Restaurant Bill
             5--->Calculate Gaming Bill
             6--->Calculate Fashion store Bill
             7--->Display Customer Details
             8--->GENERATE TOTAL BILL AMOUNT
             9--->GENERATE OLD BILL
             10--->EXIT
Enter Your Choice
```

```
ENTER CUSTOMER ID : C101
 [('Cl01', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzyl23@gmail.com'), ('Cl01', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzyl23@gmail.com')]
                          1. Table Tennis
                                                     ----> 150 Rs./HR
                          2. Bowling
                                                     ----> 100 Rs./HR
                          з.
                              Snooker
                                                     ----> 250 Rs./HR
                              VR World Gaming
                                                  ----> 400 Rs./HR
----> 300 Rs./HR
                          5. Video Games
                          6. Swimming Pool Games ---->
7. Exit
                                                                  350 Re /HR
  Enter What Game You Want To Play : 4
  Enter No Of Hours You Want To Play : 2
 FOR : 2 HOURS
*** WE HOPE YOU WILL ENJOY YOUR GAME ***
  ************************************
                 1--->Enter Customer Details
                 2--->Booking Record
                 3--->Calculate Room Rent
                 4--->Calculate Restaurant Bill
                 5--->Calculate Gaming Bill
                 6--->Calculate Fashion store Bill
                 7--->Display Customer Details
8--->GENERATE TOTAL BILL AMOUNT
                 9--->GENERATE OLD BILL
                10--->EXIT
Enter Your Choice6
ENTER CUSTOMER ID : C101
[('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzy123@gmail.com'), ('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzy123@gmail.com')]
                      1. Shirts
                                            ----> 1500 Rs.
                                            ----> 300 Rs.
                           T-Shirts
                           Pants
                      3.
                                            ----> 4000 Rs.
                           Jeans
                       4.
                           Tassel top ----> 500 Rs.
                           Gown
                                            ----> 3000 Rs
                           Western dress ----> 3000 Rs.
                                          ----> 400 Rs.
----> 200 Rs.
----> 30 Rs.
                      8. Skirts
                      9. Trousers
                      10. InnerWear
Enter the your Choice wear: 7
How many you want to buy: 1
Western dress
************************************
YOU SELECT ITEM NO : 7
YOUR OUANTITY IS : 1
YOUR QUANTITY IS : 1 ITEMS
THANK YOU FOR SHOPPING VISIT AGAIN!!!
Your Total Bill Is: 3000
************************************
```

Enter Your Choice5

```
1--->Enter Customer Details
2--->Booking Record
3--->Calculate Room Rent
4--->Calculate Restaurant Bill
5--->Calculate Gaming Bill
6--->Calculate Fashion store Bill
7--->Display Customer Details
8--->GENERATE TOTAL BILL AMOUNT
9--->GENERATE OLD BILL
10--->EXIT
Enter Your Choice7
ENTER CUSTOMER ID : C101
[('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzyl23@gmail.com')]
a', '76789-32456', 'Suzyl23@gmail.com')]
```

```
1--->Enter Customer Details
               2--->Booking Record
               3--->Calculate Room Rent
               4--->Calculate Restaurant Bill
               5--->Calculate Gaming Bill
               6--->Calculate Fashion store Bill
               7--->Display Customer Details
               8--->GENERATE TOTAL BILL AMOUNT
               9--->GENERATE OLD BILL
              10--->EXIT
Enter Your Choice8
ENTER CUSTOMER ID : C101
[('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzy123@gmail.com'), ('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzy123@gmail.com')]
Enter Customer Name : Suzy Sabestian
 **** CROWN PLAZA MIAMI **** CUSTOMER BIILING ****
CUSTOMER NAME : Suzy Sabestian
ROOM RENT
                   : Rs. 60000
RESTAURENT BILL : Rs.
                               1500
FASHION BILL
                               3000
                   : Rs.
                 : Rs.
GAMING BILL
                               800
TOTAL AMOUNT : Rs. 65300
```

```
File Edit Shell Debug Options Window Help
ROOM RENT
                             60000
                 : Rs.
RESTAURENT BILL
                 : Rs.
                             1500
FASHION BILL
                 : Rs.
                             3000
GAMING BILL
                  : Rs. 800
TOTAL AMOUNT : Rs. 65300
             1--->Enter Customer Details
             2--->Booking Record
              3--->Calculate Room Rent
              4--->Calculate Restaurant Bill
             5--->Calculate Gaming Bill
             6--->Calculate Fashion store Bill
             7--->Display Customer Details
             8--->GENERATE TOTAL BILL AMOUNT
             9--->GENERATE OLD BILL
             10--->EXIT
Enter Your Choice9
ENTER CUSTOMER ID : C101
[('C101', 'Suzy Sabestian', '45 street won', '25', 'Australia', '76789-32456', 'Suzyl23@gmail.com'), ('C101', 'Suzy Sabestian', '45 street won', '25', 'Australi
a', '76789-32456', 'Suzyl23@gmail.com')]
[('C101', 'Suzy Sabestian', 60000, 1500, 800, 3000, 65300)]
```

ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

- 1. This project has made it easy for a hotel to manage and record the details of their customers.
- 2. It has also helped the management keep in track the amenities used by the customers.
- 3. The room rent for customers who have stayed in the hotel has been calculated.
- 4. Bills have been calculated separately for each department of the hotel. Like bill for gaming place, restaurant, fashion store has been calculated separately
- 5. By this categorizing the hotel management would be able to give their customers a detailed bill.
- 6. The management would have a rough idea on the services which they have provided to their customers and such detailed bills would avoid any further confusions.

DISADVANTAGES:

- 1. This project has not been able to record the details of the employees working in the hotel
- 2. It has been successful only in customer management for a hotel
- 3. The users of this project are only the hotel managaement people.
- 4. It has not been able to directly serve the customers of the hotel i.e. online booking, ordering food or accessing the amenities of the hotel just by staying at the room.
- 5. It has not been able to track the current status of the customer in the hotel
- 6. This project been useful only for recording data of the customers who are staying in the hotel but not for the people who just dine in.

CONCLUSION:

The project has enlightened us on the most important part of computer science, the practical and applicative part of it.

This project is designed to improve operational efficiency and is the fastest and reliable way to bill customers that saves both time and money. This software generates invoice quicky and hence it is easy to use and is adaptable to different formats.

The ability of putting together a project with the fundamental knowledge of MySQL and Python truly delights us.

We have learnt a lot from this project,

- The importance of removing bugs from a program
- The importance of following correct syntax.
- Learnt to make a user friendly system
- Maintaining a minimum margin of error
- Understanding the criteria of implementation process Most importantly we understood how delightful it is to come Up with and idea and implement it.

FURTHER DEVELOPMENTAL AREAS

- The list has fixed prices and services, this can be developed further for adding new items and changing prices.
- Extracting important datasuch as goods and servicestax rates, service tax rates etc. from government websites on the internet
- Using logical algorithms to adjust prices for inflation.
- Creating a user data base forstoring information such as past purchases, discount coupons, reservations in hotel etc.
- Creating a management system for salary of the employees working at thehotel.
- Can be developed for tracking available rooms for customers.
- Can be used for tracking orders of all necessities which were bought by the hotel.
- Can be developed to include online booking systems for customers to book the roomat home

BIBLIOGRAPHY:

- www.python.org
- www.tutorialpoint.com
- www.pythonchalenge.com
- www.learnpython.org