Silver Bells Public School, Shamli

Academic Session: 2022-23

Project Report on

Hotel Mgmt. System

(Based on Python and MySql)

Submitted by : **Bulbul Malik Class XII-A**

Roll number:-

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PGT (CS)

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Certificate

This is to certify that Akshita Goel, Roll no [ ] has successfully completed the project work on “Hotel Mgmt. System” in the subject Computer Science (083) under the guidance of Mr. Nitin Kumar Ruhela, laid down in the regulations of CBSE for the purpose of Practical Examination 2022-23 in Class XII to be held in Silver Bells Public School, Shamli.

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PGT CS
Silver Bells Public School,Shamli

Mr. A. K. Goel
Principal
Silver Bells Public School, Shamli

Declaration

I hereby declare that the project work entitled **"Hotel Mgmt. System"**, submitted to Department of **Computer Science**, Silver Bells Public School, Shamli, is prepared by us. All the coding is result of my personal efforts.

Akshita Goel

XII Science A

Roll No:-

Acknowledgement

Apart from the efforts of me, the success of any project depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this project.

I express deep sense of gratitude to almighty God for giving me strength for the successful completion of the project.

I express my heartfelt gratitude to my parents for constant encouragement while carrying out this project.

I gratefully acknowledge the contribution of the individuals who contributed in bringing this project up to this level, who continues to look after me despite my flaws,

I express my deep sense of gratitude to the luminary The Principal, Silver Bells Public School, Shamli who has been continuously motivating and extending their helping hand to us.

My sincere thanks to Mr. Nitin Kumar Ruhela, who critically reviewed my project and helped in solving each and every problem, occurred during implementation of the project

Akshita Goel

XII Science A

Roll No:-

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Introduction

A Hotel Management system is a program that is ultimately designed to make all the process of hotel management easy with this program one can easily manage all the work very easily.

Manager can easily manage customer by adding , updating , deleting details of customer. They can easily track anyone's information very easily. It saves users time to search room information.

It can calculate easily and exact cost for requested number of days also it can help them easy registration.

The Hotel Industry is perhaps one of the oldest commercial endeavours in the world. The real boom in hotel building started from 20th century. The system allows the hotel manager to assigns tasks to right rep and promotise good leads, as well as improving forecasting and analytics.

The project starts with –

1 - CUSTOMER DETAILS 2 – SEARCH DETAILS 3 – GAME FACILITIES 4 – RESTAURANT FACILITIES 5 – LAUNDRY FACILITIES 6 – SEARCH ROOM DETAILS 7 – BILL GENERATING 8 – HOTEL DETAILS ADD 9 - EXIT

Objectives Of The Project

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software.

- Write programs utilizing modern software tools.
- Write effective procedural code to solve small to medium sized problems.
- Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.
- Students will demonstrate ability to conduct a research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science.

Hardware And Software Requirements

HARDWARE REQUIREMENTS:

1. OPERATING SYSTEM : WINDOWS 7 AND ABOVE
2. PROCESSOR : PENTIUM (ANY) OR AMD
3. RAM : 512 MB+
4. Hard disk : SATA 40 GB OR ABOVE
5. CD/DVD r/w multi drive combo: (If back up required)
6. MONITOR 14.1 or 15 -17 inch
7. Key board and mouse

SOFTWARE REQUIREMENTS:

- Windows OS
- Python translator
- IDE
- mysql connector module

Database Structure

Database Design:

An important aspect of system design is the design of data storage structure. To begin with a logical model of data structure is developed first. A database is a container object which contains tables, queries, reports and data validation policies enforcement rules or constraints etc. A logical data often represented as a records are kept in different tables after reducing anomalies and redundancies. The goodness of data base design lies in the table structure and its relationship. This software project maintains a database named “hotel_management_sbps” which contains a following two table

create database hotel_management_system; use hotel_management_system;

create table customer (id bigint primary key auto_increment, name char(50), address char(100), phone char(15), email char(30), id_proof char(20), id_proof_no char(20), males int(2), females int(2), children(int2));

Table Name: Customer

Field	Type	Null	Key	Default	Extra
id	bigint(20)	NO	PRI	NULL	auto_increment
name	char(50)	YES		NULL	
address	char(100)	YES		NULL	
phone	char(15)	YES		NULL	
email	char(30)	YES		NULL	
id_proof	char(20)	YES		NULL	
id_proof_no	char(20)	YES		NULL	
males	int(2)	YES		NULL	
females	int(2)	YES		NULL	
children	int(2)	YES		NULL	

create table game (sno int, gamename varchar(25), charges int);

Table Name: game

Field	Type	Null	Key	Default	Extra
sno	int(15)	YES		NULL	
gamename	varchar(25)	YES		NULL	
charges	int(11)	YES		NULL	

create table laundry (sno int, itemname carchar(25), rate int);

Table Name: laundry

Field	Type	Null	Key	Default	Extra
sno	int(15)	YES		NULL	
itemname	varchar(25)	YES		NULL	
rate	int(11)	YES		NULL	

create table restaurant (sno int, item varchar(25), rate int);

Table Name: Restaurant

Field	Type	Null	Key	Default	Extra
sno	int(15)	YES		NULL	
item	varchar(25)	YES		NULL	
rate	int(11)	YES		NULL	

create table roomtype (sno int, item varchar(25), rate int);

Table Name: Roomtype

Field	Type	Null	Key	Default	Extra
sno	int(15)	YES		NULL	
type	varchar(25)	YES		NULL	
rent	int(11)	YES		NULL	

create table setting (sno int, item varchar(25), rate int);

Table Name: Setting

Field	Type	Null	Key	Default	Extra
id	int(10)	NO	PRI	NULL	auto_increment
field_name	char(30)	YES		NULL	
value	char(100)	YES		NULL	

Script

```
#Project Name     :Hotel Management System
#Made by          :Akshita and Bulbul
#session          :2022-23

import mysql.connector def
settings():
   conn =
mysql.connector.connect(host='localhost',database='hotel_management_sbps',user='ro
ot',password='admin')     cursor=conn.cursor()     sql = "select * from setting;"
cursor.execute(sql)     records=cursor.fetchall()     for i in records:
       print(i)

def clear():     for _ in
range (65):
       print()

def showcustomer():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
cursor=conn.cursor()     sql = "select * from customer;"
cursor.execute(sql)     record=cursor.fetchall()     for i in record:
       print(i)

def add_customer():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
cursor = conn.cursor() name = input ('Enter Customer Name :')
   address = input ('Enter Customer Address: ')
```

```
   phone=input (' Enter Customer Phone NO :')     email = input (' Enter
Customer Email ID :')     id_proof=input (' Enter Customer ID
(Aadhar/Passport/DL/VoterID) :')     id_proof_no = input(' Enter
Customer ID proof NO :')     males = input ('Enter Total Males :')
females= input ('Enter Total Females :')     children= input ('Enter Total
Children :')     sql='insert into
customer(name,address,phone,email,id_proof,id_proof_no,males,females,children)valu
es \

("'+name+'","'+address.upper()+'","'+phone+'","'+email.upper()+'","'+id_proof.upper()+'
","'+id_proof_no.upper()+'",'+males+','+females+','+children+');'

   cursor.execute(sql)     conn.commit()
print('\n\n\nCustomer Added successfully..... ')
conn.close()     wait = input('\n\n\n Press any key to
continue.....')

def show_roomtype():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print('ALL records of Types of Rooms available')
cursor=conn.cursor()     sql="select * from roomtype;"
cursor.execute(sql)     record=cursor.fetchall()     for i in record:
       print(i)

def roomrent():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print("WE HAVE THE FOLLOWING ROOMS FOR YOU:-") print("1.
Single Room RS 2000 Per Night") print("2. Double Room RS 3000 Per
Night")
   print("3. Triple Room RS 4000 Per Night")
   print("4. King   Room RS 6000 Per Night")
x=int(input("ENTER YOUR CHOICE PLEASE->"))
n=int(input("FOR HOW MANY NIGHTS DID YOU STAY: "))
if(x==1):
       print("YOU HAVE Chosen Single Room")
s=2000*n     elif(x==2):
```

```
        print("YOU HAVE Chosen Double Room")
s=3000*n     elif(x==3):
        print("YOU HAVE Chosen Triple Room")
s=4000*n     elif(x==4):
        print("YOU HAVE Chosen King Room")
s=6000*n     else:
        print("PLEASE CHOOSE A ROOM")
print("your room rent is =",s,"\n")

def laundrymenu():
    conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')

    print('All records of Laundry')
cursor=conn.cursor()
sql="select * from Laundry;"
cursor.execute(sql)
record=cursor.fetchall()     for i
in record:
        print(i)

def add_laundry():
    conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
cursor=conn.cursor() sql="select * from Laundry;"
cursor.execute(sql)
    record=cursor.fetchall()
    for i in record:
        print(i)

    L=[]
    sno=input("ENTER Dress Item Serial No.:")
L.append(sno)
    itemname=input("ENTER ITEM TO BE WASHED NAME:")
L.append(itemname)
    rate=input("ENTER RATE Per Piece:")     L.append(rate)
laundry=(L)     sql="insert into
Laundry(sno,itemname,rate)values(%s,%s,%s)"
```

```
cursor.execute(sql,laundry)    conn.commit()    print('Record
inserted')

def lbill():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print('All records of Laundry')    cursor=conn.cursor()    sql="select *
from Laundry;"    cursor.execute(sql)    record=cursor.fetchall()    for
i in record:
      print(i)
s=0

   while True:
      c_wash=int(input("enter your choice of clothes to be washed"))
n=int(input("enter no. of clothes to be washed"))
      L=[]       for i
in record:
a=list(i)
         L.append(a)
for j in L:           if
j[0]==c_wash:
rate=n*j[2]
s=s+rate
print("your bill for this
cloth",s)
ch=input("do you
want to wash more
clothes?(y/n):")

      if ch in 'yY':
continue
else:
break

def show_game():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print('ALL Games available')    cursor=conn.cursor()    sql="select *
```

```
from game;"    cursor.execute(sql)    record=cursor.fetchall()    for i
in record:
      print(i)


def add_game():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
c1=conn.cursor()    sql="select * from game;"    c1.execute(sql)
record=c1.fetchall()    for i in record:
      print(i)

   L=[]
   sno=input("ENTER Game No.:")
L.append(sno)
   gamename=input("ENTER GAME NAME:")
L.append(gamename)    charges=input("ENTER
CHARGES:")
   L.append(charges)    game=(L)    sql="insert into
game(sno,gamename,charges)values(%s,%s,%s)"
c1.execute(sql,game)    conn.commit()    print('Game inserted')

def gamebill():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print('All records of games')    cursor=conn.cursor()    sql="select *
from game;"    cursor.execute(sql)    record=cursor.fetchall()    for i
in record:
      print(i)
s=0

   while True:
      c_game=int(input("enter your choice of game"))
n=int(input("enter no. of hours to play"))
      L=[]       for i
in record:
a=list(i)
         L.append(a)       for j in L:          if j[0]==c_game:
rate=n*j[2]             s=s+rate             print("your bill for
```

```
this game",s)        ch=input("do you want to play any other
game?(y/n):")

      if ch in 'yY':
continue
else:
break

def show_restaurant():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print(' MENU')     cursor=conn.cursor()     sql="select * from
restaurant;"     cursor.execute(sql)     record=cursor.fetchall()     for i
in record:
      print(i)



def add_restaurant():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
cursor=conn.cursor()     print('        MENU')     sql="select * from
restaurant;"     cursor.execute(sql)     record=cursor.fetchall()     for i
in record:
      print(i)
L=[]
   sno=input("ENTER FOOD ITEM No.:")
L.append(sno)
   f=input("ENTER ITEM NAME:")
L.append(f)
   charges=input("ENTER CHARGES:")
L.append(charges)
   f=(L)
   sql="insert into restaurant(sno,item,rate)values(%s,%s,%s)"
cursor.execute(sql,f)     conn.commit()
   print('Food Item inserted')
```

```
def restaurantbill():
   conn = mysql.connector.connect(host='localhost',
database='hotel_management_sbps', user='root', password='admin')
print('All records of dishes')    cursor=conn.cursor()    sql="select *
from restaurant;"    cursor.execute(sql)    record=cursor.fetchall()
for i in record:
      print(i)
s=0

   while True:
      c_dish=int(input("enter your choice of dish"))
n=int(input("enter no. of servings you want"))
      L=[]       for i
in record:
a=list(i)
         L.append(a)       for j in L:          if j[0]==c_dish:
rate=n*j[2]              s=s+rate              print("your bill for
this dish",s)       ch=input("do you want to eat any other
dish?(y/n):")

      if ch in 'yY':
continue       else:
         break

def menu():
    print()

print("*****************************************************")
print(          "       HOTEL  MANAGEMENT  SYSTEM  Project")      print("1.show
settings of the hotel")      print("2.  Show all customers' Detail")      print("3.  Add
new customer Detail")
    print("4.  Show Types of Rooms available")      print("5.  Ask Customer choice of
rooms and calculate charges according to stay")      print("6.  Show Laundry menu")
print("7.  Add details of Items and Charges in Laundry")      print("8. Laundry Bill")
print("9. Show all Games List")      print("10. Add details of Items and Charges")
print("11. Game Bill")      print("12. Show Menu of Restaurant")      print("13. Add
details of food items available in restaurant")      print("14. Restaurant Bill")
```

```
    print("**************************************************************")
menu() opt="" opt=int(input("enter your choice: ")) if opt==1:    settings() elif
opt==2:
  showcustomer() elif
opt==3:
  add_customer() elif
opt==4:
  show_roomtype()
elif opt==5:
roomrent() elif
opt==6:
  laundrymenu() elif
opt==7:
  add_laundry() elif
opt==8:
  lbill() elif
opt==9:
  show_game()
elif opt==10:
add_game() elif
opt==11:
gamebill() elif
opt==12:
show_restaura
nt() elif
opt==13:
add_restaurant
() elif opt==14:
restaurantbill()
else:
print('invalid
option')
```

Output

```
**********************************************************
         HOTEL  MANAGEMENT  SYSTEM  Project
1.show settings of the hotel
2.  Show all customers' Detail
3.  Add new customer Detail
4.  Show Types of Rooms available
5.  Ask Customer choice of rooms and calculate charges according to stay
6.  Show Laundry menu
7.  Add details of Items and Charges in Laundry
8. Laundry Bill
9. Show all Games List
10. Add details of Items and Charges
11. Game Bill
12. Show Menu of Restaurant
13. Add details of food items available in restaurant
14. Restaurant Bill
**********************************************************
enter your choice: 1
(1, 'hotel_name', 'SKYSCRAPER HOTEL')
(2, 'address', 'SurajMal Viha,Delhi-92')
(4, 'email', 'leela_delhi@gmail.com')
(5, 'gst', '23')
(6, 'st', '5')
(7, 'phone', '011-435435534,4654545,456567556')
```

```
enter your choice: 2
(1, 'bulbul', 'Shiv Vihar', '98718168101', 'RAKESH@Gmail.com', 'AADHAR CARD', '4544-5656-5
656', 2, 1, 2)
(3, 'nitin', 'KAKA NAGAR SHAMLI', '233445', 'SSS@GMAIL.COM', 'AADHAR', '3445-4545-4545', 0
, 1, 0)
(4, 'Bulbul Malik', 'SOUTH KOREA', '7493675788', 'BULBULKOOKIEWOOKIE@GMAIL.COM', 'PASSPORT
', '7438-7278-6784', 2, 1, 0)
(5, 'Sana', 'shamli,salekh vihar', '8899237712', 'SANAAZAM@GMAIL.COM', 'AADHAR', '2345-567
8-9876', 0, 3, 0)
(6, 'meenu malik', 'MUZAFFARNAGAR', '567798221', 'MALIKMEENU664@GAMIL.COM', 'AADHAR', '345
6-8765-9876', 0, 2, 2)
```

```
enter your choice: 3
Enter Customer Name :shalika goel
Enter Customer Address: shiv vihar
 Enter Customer Phone NO :2648490532
 Enter Customer Email ID :shalikagoel@gmail.com
 Enter Customer ID (Aadhar/Passport/DL/VoterID) :Aadhar
 Enter Customer ID proof NO :1234-3455-3466
Enter Total Males :0
Enter Total Females :1
Enter Total Children :3


Customer Added successfully.........
```

```
enter your choice: 4
ALL records of Types of Rooms available
(1, 'single', 2000)
(2, 'double', 3000)
(3, 'triple', 4000)
(4, 'king', 5000)
```

```
enter your choice: 5
WE HAVE THE FOLLOWING ROOMS FOR YOU:-
1. Single Room RS 2000 Per Night
2. Double Room RS 3000 Per Night
3. Triple Room RS 4000 Per Night
4. King   Room RS 6000 Per Night
ENTER YOUR CHOICE PLEASE->1
FOR HOW MANY NIGHTS DID YOU STAY: 3
YOU HAVE Chosen Single Room
your room rent is = 6000
```

```
enter your choice: 6
All records of Laundry
(1, 'shirt', 75)
(2, 'trouser', 100)
(3, 'ladies suit', 150)
(4, 'saree', 200)
(5, 'kidswear', 150)
(6, 'winter wear', 300)
```

```
enter your choice: 7
(1, 'shirt', 75)
(2, 'trouser', 100)
(3, 'ladies suit', 150)
(4, 'saree', 200)
(5, 'kidswear', 150)
ENTER Dress Item Serial No.:6
ENTER ITEM TO BE WASHED NAME:winter wear
ENTER RATE Per Piece:300
Record inserted
```

```
enter your choice: 8
All records of Laundry
(1, 'shirt', 75)
(2, 'trouser', 100)
(3, 'ladies suit', 150)
(4, 'saree', 200)
(5, 'kidswear', 150)
(6, 'winter wear', 300)
enter your choice of clothes to be washed5
enter no. of clothes to be washed4
your bill for this cloth 600
do you want to wash more clothes?(y/n):y
enter your choice of clothes to be washed4
enter no. of clothes to be washed5
your bill for this cloth 1600
do you want to wash more clothes?(y/n):n
```

```
enter your choice: 9
ALL Games available
(1, 'badminton', 60)
(2, 'hockey', 80)
(3, 'cricket', 70)
(4, 'volleyball', 90)
(5, 'basketball', 100)
(6, 'table tennis', 70)
```

```
enter your choice: 10
(1, 'badminton', 60)
(2, 'hockey', 80)
(3, 'cricket', 70)
(4, 'volleyball', 90)
(5, 'basketball', 100)
(6, 'table tennis', 70)
(7, 'polo', 500)
ENTER Game No.:8
ENTER GAME NAME:golf
ENTER CHARGES:450
Game inserted
```

```
enter your choice: 11
All records of games
(1, 'badminton', 60)
(2, 'hockey', 80)
(3, 'cricket', 70)
(4, 'volleyball', 90)
(5, 'basketball', 100)
(6, 'table tennis', 70)
enter your choice of game6
enter no. of hours to play3
your bill for this game 210
do you want to play any other game?(y/n):y
enter your choice of game5
enter no. of hours to play3
your bill for this game 510
do you want to play any other game?(y/n):n
```

```
enter your choice: 12
 MENU
(1, 'samosa', 20)
(2, 'tea', 10)
(3, 'sandwich', 90)
(4, 'paneer tikka', 110)
(5, 'aalo puri', 50)
```

```
enter your choice: 13
          MENU
(1, 'samosa', 20)
(2, 'tea', 10)
(3, 'sandwich', 90)
(4, 'paneer tikka', 110)
(5, 'aalo puri', 50)
ENTER FOOD ITEM No.:6
ENTER ITEM NAME:chhole bhatture
ENTER CHARGES:250
Food Item inserted
```

```
enter your choice: 14
All records of dishes
(1, 'samosa', 20)
(2, 'tea', 10)
(3, 'sandwich', 90)
(4, 'paneer tikka', 110)
(5, 'aalo puri', 50)
enter your choice of dish5
enter no. of servings you want1
your bill for this dish 50
do you want to eat any other dish?(y/n):y
enter your choice of dish1
enter no. of servings you want4
your bill for this dish 130
do you want to eat any other dish?(y/n):n
```

Bibliography

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