KENDRIYA VIDYALAYA NO-2 DELHI CANTT DELHI CANTT-110010 Project Synopsis Hotel Managements Systems



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CERTIFICATE

This is to certify that **Sayantana Mandal** Of Class **XII A** has prepared the report on the Project entitled "Employee Management System". The report is the result of his efforts & endeavors. The report is found worthy of acceptance as final project report for the subject Computer Science of Class XII. He has prepared the report under my guidance.

Department of Computer Science Kendriya Vidyalaya No. 2, Delhi Cantt New Delhi

CERTIFICATE

The project report entitled "Hotel Management

System". Submitted by Sayantana Mandal of

Class XII A for the CBSE
Senior Secondary Examination class XII of
Computer

Science at Kendriya Vidyalaya No. 2, Delhi Cantt

has been examined

DECLARATION

I hereby declare that the project work entitled.

"Hotel Management System", submitted to
Department of Computer Science, Kendriya Vidyalaya
No. 2, Delhi Cantt, New Delhi is
prepared by me. All the coding are result of mypersonal efforts.

Sayantana Mandal Class XII A

<u>ACKNOWLEDGEMENT</u>

I would like to express a deep sense of thanks & gratitude to my project guide **Mr. ML MEENA** Sir for guiding me immensely through the course of the project. He always evinced a keen interest in my work. His constructive advice & constant motivation have been responsible for the successful completion of this project.

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I also thank my parents for their motivation & support. I must thank to my classmates for their timely help & support in the compilation of this project.

Last but not the least, I would like to thank all those who had helped directly or indirectlytowards the completion of this project

Sayantana Mandal Class XII A

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- Introduction of projectObjectives of the projectHardware and software used
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INTRODUCTION OF PROJECT

The Hotel Management System is basically a database-based project done with help of **python language** and **MySQL**. **Hotel Management Systems (HMS)** is a computer system that helps manage the information related to the customers staying in the hotel effectively. It manages the data related to customer and their details.

HMS provides the ability to manage all the room booking in oneplace, reducing the work of staff in arranging and analyzing the credential on normal pen paper work.

OBJECTIVES OF THE PROJECT

The objectives of the systems are-

- Maintain the records of the Customers.
- Maintain the number of rooms.
- Reduces the work of staff and makes it easy to work.
- Reduced operational time.
- Increased accuracy and reliability.
- Increased operational efficiency.
- Data security.
- Cost-effective and easily manageable.

MODULES

- Room Enquiry
- Bills and Payment Module
- Customer Enquiry
- Room Booking
- Room Types

HARDWARE AND SOFTWARE USED

HARDWARES USED:

- Desktop
- Keyboard
- Mouse
- Computer
- Hard Drive(1 TB)
- RAM (8.00 GB)

SOFTWARE USED:

- Operating System Used: Windows 10
- •Python 3.10.2
- MySQL

ADVANTAGE OF HOTEL MANAGEMENT SYSTEMS

- No Need to do Paper Work.
- To save the environment by using paper-freework.
- To increase the accuracy and efficiency of the procedure.
- High reliability and Security

WORKING DESCRIPTION

Room Booking

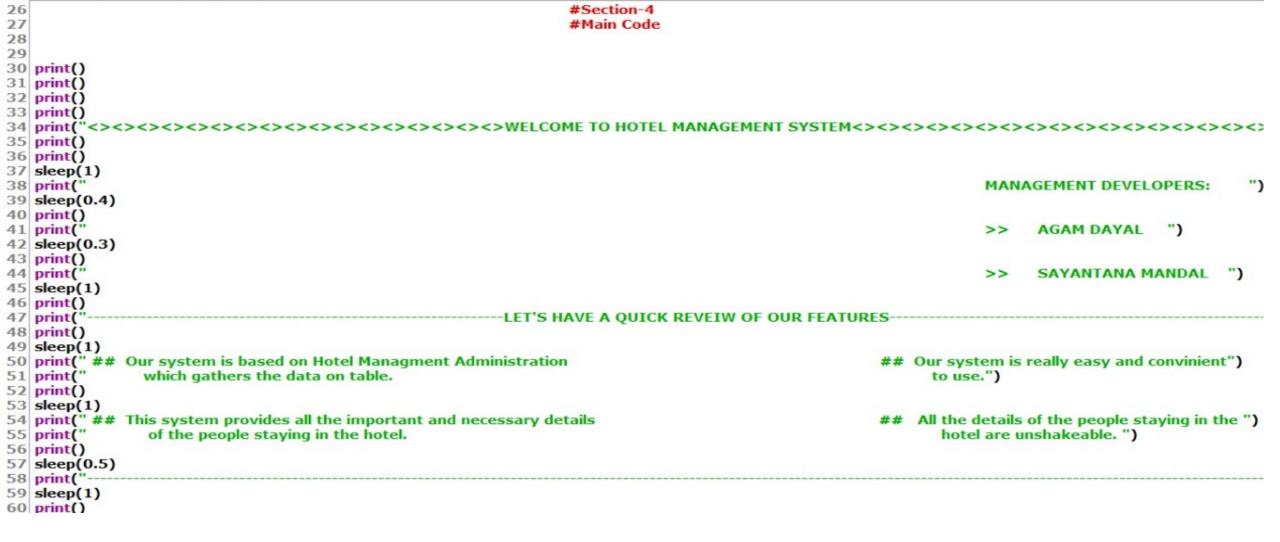
- Customers can book Rooms
- Strayed or Forgot customer can take information out thru customer ID.

Bill

- To display the details of Bills.
- Customer-wise payment description.

PROJECT CODE

```
#Section-1
                                                                 #Importing Necessary Modules
 4 import mysql.connector as con
 5 from time import sleep
 6 import random
                                                                            #Section-2
                                                                    #Establishing Connection
10 print()
password=input("Please Enter Your MySQL Password - ")
mycon=con.connect ( host = "localhost", user = "root", passwd=password, database="Hotel")
13 mycur= mycon.cursor()
15
16
                                                                           #Section-3
                                                                       #Defining Functions
18 def user_id():
        st1="AS7"
19
20
        st2=Name[0:2]
        st3=str(random.randrange(100,999))
21
22
        C ID= st1 + st2 + st3
        return C ID
```



```
61 print()
62 print()
63
64 a = input("Press the ENTER KEY to continue")
65 print()
66 a='v'
67 while (a=='y' or a== 'Y'):
            print("Main Menu ")
68
69
            print("Enter 1: For New Entry")
70
            print("Enter 2: For Room Details")
71
            print("Enter 3: For Bill")
72
            print("Enter 4: For Customer Wise Details")
73
            print("Enter 5: To Exit The Program")
74
            print()
            choice = int(input("Enter your choice:"))
75
76
            print()
77
            print()
78
            if choice == 1:
               print("ROOM BOOKING :-")
79
80
               print()
81
               Name = input("Enter Name of Person:")
82
               print()
83
               C ID=user id()
               print("Your Customer Id is ", C_ID, ", Do remember this !!")
84
85
               print()
86
               P_no=int(input("Enter Phone Number: "))
               Email=input("Enter your Email:")
87
88
               Aadhar_no=int(input("Enter Aadhar card no.:"))
               Room_no=int(input("Enter Room No.:"))
89
               Room_type=input("Enter Room type[SuperDelux/Delux/Premium/Normal]:")
90
91
               Cost=int(input("Enter The Total Cost[10000/7500/4000/2000]: "))
               Adv_payment=input("Enter Advance Payment: ")
92
93
               Status = input("Enter the Current payment status[Paid/Pending]: ")
               Staying=input("Enter 'YES' if the customer is staying or 'NO' if not: ")
94
95
               print()
96
               data=(C ID,Name, P no, Email, Aadhar no,Room no,Room type,Cost,Adv payment,Status,Staying)
```

```
A=""insert into details (C_ID,Name, P_no, Email, Aadhar_no,Room_no,Room_type,Cost,Adv_payment,Status,Staying)
  Values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)"
  mycur.execute(A,data)
  mycon.commit()
  print("The above details are successfully registered. ")
  print()
  print()
  print()
  print()
  print()
if choice== 2:
     print("FOR ROOM DETAILS :-")
     print()
     print("Enter 1: For Room Overview")
     print("Enter 2: For Room Wise Details")
     print()
     choice1=int(input("Enter Your Choice:"))
     print()
     if (choice1==1):
          mycur.execute("select room_no,room_type,cost from details")
          record = mycur.fetchall()
          print("The Detials of The Rooms are :- ")
          print()
          for i in record:
             print(i)
     if (choice1==2):
          r_no=int(input("Enter The Room No Whose Details You Want To View:"))
          mycur.execute("select* from details where Room_no=" + str(r_no))
          record = mycur.fetchall()
          for i in record:
             print(i)
```

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```
print()
     print()
     print()
     print()
     print()
     print()
if (choice==3):
       print("BILL :-")
       print()
       print("Enter 1: To Get Bill Through Customer ID")
       print("Enter 2: To Get Bill Of Everyone")
       print()
       choice2 = int(input("Enter your choice :"))
       print()
       if (choice2 == 1):
            U_ID=input("Enter C_ID:")
            mycur.execute ("select Cost, Adv_payment, Status from details where C_ID=""+U_ID + """)
            record = mycur.fetchall()
            print("The Bill is :-")
            print()
            for i in record:
                 print(i)
       if (choice2== 2):
            mycur.execute("select (C_ID, Cost, Adv_payment, Status) from details ")
            record = mycur.fetchall()
            print("The Bill Details Of All The Customers Are :-")
            print()
            for i in record:
                 print (i)
```

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```
print()
       print()
       print()
       print()
       print()
if (choice == 4):
        print ("CUSTOMER WISE DETAILS :-")
        print()
        print("Enter 1 : To Get Specific Details Of Customer By C_ID" )
        print("Enter 2: To Get Detail Of All Customer")
        print()
        choice3 = int(input("Enter your choice :"))
        print()
        if (choice3==1):
              U_ID = input("Enter the C_ID for which you want to view details:")
              mycur.execute("select * from details where C_ID = " + U_ID+"" )
              record = mycur.fetchall()
              print("")
              print()
              for i in record:
                  print(i)
        if (choice3==2):
            mycur.execute("select * from details")
            record = mycur.fetchall()
            print("The Details Of All The Customers Are:-")
            print()
            for i in record:
                 print(i)
```

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```
202
203
204
205
                        print()
                        print()
                        print()
206
207
                        print()
                        print()
208
209
210
211
212
213
214
215
               if (choice == 5):
                    print("THANK YOU FOR USING THE PROGRAM OF HOTEL MANAGEMENT SYSTEMS !!")
                    print()
                    a='s'
216
217 mycon.close ()
```

OUTPUT SCREEN

Please Enter Your MySQL Password - rabbit

MANAGEMENT DEVELOPERS:

- >> AGAM DAYAL
- >> SAYANTANA MANDAL

------LET'S HAVE A QUICK REVEIW OF OUR FEATURES------

- ## Our system is based on Hotel Managment Administration which gathers the data on table.
- ## This system provides all the important and necessary details of the people staying in the hotel.

- ## Our system is really easy and convinient to use.
- ## All the details of the people staying in the hotel are unshakeable.

Press the ENTER KEY to continue

Main Menu

Enter 1: For New Entry

Enter 2: For Room Details

Enter 3: For Bill

Enter 4: For Customer Wise Details

Enter 5: To Exit The Program

Enter your choice:

ROOM BOOKING :-

Enter Name of Person :Sayantana

Your Customer Id is AS7Sa456 ,Do remember this !!

Enter Phone Number: 97645464

Enter your Email :saya2005@gmail.com

Enter Aadhar card no. :5697

Enter Room No. :702

Enter Room type[SuperDelux/Delux/Premium/Normal] : SuperDelux

Enter The Total Cost[10000/7500/4000/2000]: 10000

Enter Advance Payment: 7000

Enter the Current payment status[Paid/Pending]: Pending

Enter 'YES' if the customer is staying or 'NO' if not : Yes

The above details are successfully registered.

FOR ROOM DETAILS :-

Enter 1: For Room Overview Enter 2: For Room Wise Details

Enter Your Choice: 1

The Detials of The Rooms are :-

(101, 'Premium', 4000)

(801, 'Premium', 4000)

(701, 'SuperDelux', 10000)

(403, 'Premium', 4000)

(501, 'SuperDelux', 10000)

(702, 'SuperDelux', 10000)

(102, 'Delux', 7500)

FOR ROOM DETAILS :-

Enter 1: For Room Overview Enter 2: For Room Wise Details

Enter Your Choice:2

Enter The Room No Whose Details You Want To View:101
('AS7Ag323', 'Agam', 14256776, 'agamdayal@gmail.com', 5632, 101, 'Premium', 4000, 3000, 'Pending', 'Yes')

BILL :-

Enter 1: To Get Bill Through Customer ID

Enter 2: To Get Bill Of Everyone

Enter your choice :1

Enter C_ID :AS7Sa687

The Bill is :-

(7500, 7500, 'Paid')

BILL :-

Enter 1: To Get Bill Through Customer ID

Enter 2: To Get Bill Of Everyone

Enter your choice :2

The Bill Details Of All The Customers Are :-

('AS7Ag323', 4000, 3000, 'Pending') ('AS7Al962', 4000, 4000, 'Paid') ('AS7As286', 10000, 10000, 'Paid') ('AS7De768', 4000, 2000, 'Pending') ('AS7Py558', 10000, 8000, 'Pending') ('AS7Sa456', 10000, 7000, 'Pending') ('AS7Sa687', 7500, 7500, 'Paid')

BILL :-

Enter 1: To Get Bill Through Customer ID

Enter 2: To Get Bill Of Everyone

Enter your choice :1

Enter C_ID :AS7Sa687

The Bill is :-

(7500, 7500, 'Paid')

BILL :-

Enter 1: To Get Bill Through Customer ID

Enter 2: To Get Bill Of Everyone

Enter your choice :2

The Bill Details Of All The Customers Are :-

('AS7Ag323', 4000, 3000, 'Pending') ('AS7Al962', 4000, 4000, 'Paid') ('AS7As286', 10000, 10000, 'Paid') ('AS7De768', 4000, 2000, 'Pending') ('AS7Py558', 10000, 8000, 'Pending') ('AS7Sa456', 10000, 7000, 'Pending') ('AS7Sa687', 7500, 7500, 'Paid')

CUSTOMER WISE DETAILS:

Enter 1: To Get Specific Details Of Customer By C_ID

Enter 2: To Get Detail Of All Customer

Enter your choice :1

Enter the C_ID for which you want to view details :AS7As286

('AS7As286', 'Ashish', 86023698, 'ash77@gmail.com', 7695, 701, 'SuperDelux', 10000, 10000, 'Paid', 'Yes')

CUSTOMER WISE DETAILS :-

Enter 1 : To Get Specific Details Of Customer By C_ID

Enter 2: To Get Detail Of All Customer

Enter your choice :2

The Details Of All The Customers Are:-

```
('AS7Ag323', 'Agam', 14256776, 'agamdayal@gmail.com', 5632, 101, 'Premium', 4000, 3000, 'Pending', 'Yes') ('AS7Al962', 'Alisha', 23456789, 'aloo@gmail.com', 5523, 801, 'Premium', 4000, 4000, 'Paid', 'Yes') ('AS7As286', 'Ashish', 86023698, 'ash77@gmail.com', 7695, 701, 'SuperDelux', 10000, 10000, 'Paid', 'Yes') ('AS7De768', 'Deepanshu', 76548291, 'gamer@gmail.com', 1234, 403, 'Premium', 4000, 2000, 'Pending', 'Yes') ('AS7Py558', 'Pyush', 65473824, 'nandan@gmail.com', 9012, 501, 'SuperDelux', 10000, 8000, 'Pending', 'No') ('AS7Sa456', 'Sayantana', 97645464, 'saya2005@gmail.com', 5697, 702, 'SuperDelux', 10000, 7000, 'Pending', 'Yes') ('AS7Sa687', 'Samya', 56742345, 'sumo@gmail.com', 8645, 102, 'Delux', 7500, 7500, 'Paid', 'Yes')
```

Main Menu

Enter 1: For New Entry

Enter 2: For Room Details

Enter 3: For Bill

Enter 4: For Customer Wise Details

Enter 5: To Exit The Program

Enter your choice:5

THANK YOU FOR USING THE PROGRAM OF HOTEL MANAGEMENT SYSTEMS!!

DATABASE AND TABLES

• Database: HOTEL

• STRUCTURES:-

Field	Type	Null	Key	Default	Extra
C_id	varchar(10)	NO	PRI	NULL	
Name	varchar(50)	NO	į .	NULL	
P no	int	NO	ĺ	NULL	
Email	varchar(60)	YES	İ	NULL	
Aadhar_no	int	NO	UNI	NULL	
Room no	int	NO	İ	NULL	
Room_type	varchar(10)	NO	İ	NULL	
Cost	int	NO	ĺ	NULL	
Adv_payment	int	NO	ĺ	NULL	
Status	varchar(20)	YES	l	NULL	
Staying	varchar(20)	NO		yes	

• TABLE LIST

• ENTRIES

_id	Name	P_no	Email	Aadhar_no	Room_no	Room_type	Cost	Adv_payment	Status	Staying
AS7Ag323	Agam	14256776	agamdayal@gmail.com	5632	101	Premium	4000	3000	Pending	Yes
AS7A1962	Alisha	23456789	aloo@gmail.com	5523	801	Premium	4000	4000	Paid	Yes
AS7As286	Ashish	86023698	ash77@gmail.com	7695	701	SuperDelux	10000	10000	Paid	Yes
AS7De768	Deepanshu	76548291	gamer@gmail.com	1234	403	Premium	4000	2000	Pending	Yes
AS7Py558	Pyush	65473824	nandan@gmail.com	9012	501	SuperDelux	10000	8000	Pending	No
AS7Sa456	Sayantana	97645464	saya2005@gmail.com	5697	702	SuperDelux	10000	7000	Pending	Yes
AS7Sa687	Samya	56742345	sumo@gmail.com	8645	102	Delux	7500	7500	Paid	Yes

CONCLUSION

- The use of software in computers in Hotelmanagement systems has made things easy.
- Hotel management systems reduce a lot of paperwork as well as manpower.
- The software is user-friendly and easy to handle

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- Subject teacher: Mr. ML Meena.
- Youtube- Grasping Python