

**COMPUTER SCIENCE PROJECT**

Hotel Management System

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Year : 2021-2022

Submitted to : Mr. Rama Shanker

Student’s Signature Teacher’s Signature

**UNDERTAKING**

We declare that the work presented in this project titled “HOTEL MANAGEMENT SYSTEM”, submitted to Mr. RAMA SHANKAR PGT-Computer Science DAV Ambuja Vidya Niketan Darlaghat for the award of the CBSE class XII certificate. We have not submitted the same work for the award of any other examination. In case this undertaking is found incorrect, we accept that our Certificates may be unconditionally withdrawn

**CERTIFICATE**

Certified that the work contained in the project titled “HOTEL MANAGEMENT SYSTEM”, by: **“ TEJENDER VERMA, HARSH SHARMA, AMAN SHARMA, SWATI TIWARI**”, has been carried out under my supervision and that this work has not been submitted elsewhere for a ‘AISSE’ certificate.

**Rama Shankar**

**PGT-Computer Science**

**DAV Ambuja Vidya Niketan Darlaghat**

Principal’s Signature

**ACKNOWLEDGMENT**

We would like to thank **Mr. Mukesh Thakur**, Principal **DAV Ambuja Vidya Niketan Darlaghat**. We are deeply indebted to our subject teacher **Mr. Rama Shankar**. Our heartfelt thanks to CBSE. We also express our deepest gratitude to our parents. Finally, we would like to wind up by paying our heartfelt thanks to all our near and dear ones.

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**INTRODUCTION**

**Th “Introduction of the Project”** We the students of CLASS XII (Science) of DAV Ambuja Vidya Niketan Darlaghat have been assigned the work of HOTEL MANAGEMENT SYSTEM. To perform this task the students were divided into the group of four students named as **TEJENDER VERMA, HARSH SHARMA, AMAN SHARMA, SWATI TIWARI**. **Harsh Sharma, Aman Sharma** has been assigned the work of coding and programming **Tejender Verma, Swati Tiwari** have been assigned the work of analyzing the overall mistakes and have done the conclusion work.

The project starts with – Enter 1 - CUSTOMER DETAILS Enter 2 – ROOM INFO Enter 3 - REFRESHMENT Enter 4 - BILL Enter 5 – EXIT. We are so glad that this work have been assigned to us, yet we haven’t done this work before. **Mr. Rama Shanke**r our subject teacher have also helped us a lot to complete this project. We feel so blessed that we have learnt all this work with the help of our sir,we are also thankful to our respected principal **Mr. MUKESH THAKUR** for providing us various facilities to complete this project. As we are the students of CLASS XII (Science) and we haven’t done this type of project before, we have performed all that which we have learnt from our CBSE PROGRAMMING .Hence, we know that this programming would be further done on a big platform. Since we have started this programming from JANUARY month, we believe that this programming would further help us a lot in our future .

We are also thankful to our groupmates for cooperating with each other while performing this task we have also polished the skills of group activity. **PROCESS** FIRSTLY, we have done the planning in a paper work regarding what have to do on the assigned project **HOTEL MANAGEMENT SYSTEM**. SECONDLY, we discussed our planning with our subject teacher and then he provided us the right path to perform the work. NEXT, we started our project. THEN, we started our coding, coding took around 4 and half weeks for completion. NEXT, we analyzed the mistakes done and then we corrected them. THEN, we prepared the project format as shown above. THANKS TO ALL OF WORTHY **TEACHERS AND PRINCIPAL AND MY DEAR GROUP MATES ALSO A GREAT THANKS TO DAV AMBUJA VIDYA NIKETAN FOR PROVIDING US THIS GOLDEN OPPORTUNITY…………**

**SYSTEM REQUIREMENT:**

The minimum system requirements for using applications are:

* Windows 7 or above
* Python 3.5 or above
* MySQL 5.0 or above
* MySQL connector
* Internet connection

**FEATURES INCLUDED:**

Some features of the portal are:

* Command line user interface
* Secure username and password encryption algorithm to SQL database
* OTP based signing up
* Email based ticket confirmation

**SETUP:**

A setup by step guide to setup the application making it ready to use:

* Open the “README.txt” file
* Follow the instructions
* Run the SQL queries listed.

Now the application is ready to use.

This project is very helpful for addition of a registration portal in website.

Coding

import mysql.connector as ct

from datetime import date

cnt=ct.connect(host="localhost",user="root",password="root",database="hotel")

if ct:

print("Connected to mysql")

else:

print("Not Able to connect.Retry")

exit

r=cnt.cursor()

while True:

print("\*"\*20,"Welcome of Hotel Menu","\*"\*20)

print("[1] Customer Details")

print("[2] Room Info")

print("[3] Refreshment")

print("[4] Bill")

print("[5] Exit")

cho=int(input("Enter your choice:"))

if cho==1:

while True:

print("\*"\*20,"Booking","\*"\*20)

print("[1] To Register new Customer record:")

print("[2] To Remove existed Customer record:")

print("[3]Exit to main menu:")

y=int(input("Enter your choice:"))

if y==1:

name = input('Enter Customer Name:')

address = input('Enter Customer Address:')

phone = input('Enter Customer Phone NO:')

id\_proof = input('Enter Customer ID(Aadhar/Passport/DL/VoterID):')

id\_proof\_no = input('Enter Customer ID proof NO:')

total\_customer=input('Enter number of Customers:')

sql = 'insert into customer(name,address,phone,id\_proof,id\_proof\_no,total\_customer) values("'+name+'","' + address.upper()+'","'+phone+'","'+id\_proof.upper()+'","'+id\_proof\_no.upper()+'",'+total\_customer+');'

r.execute(sql)

cnt.commit()

sql1='select \* from customer where name="'+name+'";'

r.execute(sql1)

record=r.fetchall()

result=record[0][0]

print("Your ID is:",result)

print('Customer Added successfully ...............')

print("For room booking go to Room Info")

if y==2:

def customer\_exist(room\_no):

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r = cnt.cursor()

sql ="select \* from customer where id ="+id+";"

r.execute(sql)

record = r.fetchone()

return record

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r=cnt.cursor()

id=input("Enter customer id:")

room\_no=input("Enter customer room no:")

sql="delete from customer where id="+id+";"

sql1="delete from booking where id="+id+";"

sql2="update room set status='Free' where room\_no="+room\_no+";"

result=customer\_exist(id)

if result is None:

r.execute(sql)

r.execute(sql1)

r.execute(sql2)

print("Customer does not exist in our database")

cnt.commit()

if result is not None:

r.execute(sql)

r.execute(sql1)

r.execute(sql2)

cnt.commit()

print("Customer successfully removed from database")

if y==3:

break

if cho==2:

while True:

print("[1] Room Preview:")

print("[2] Room Booking:")

print("[3] Cancel Booking:")

print("[4] Exit to main menu:")

z=int(input("Enter your choice:"))

if z==1:

sql ="select \* from room"

r.execute(sql)

record = r.fetchall()

for x in record:

print(x)

if z==2:

def customer\_exist(id):

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r = cnt.cursor()

sql = "select \* from customer where id ="+id+";"

r.execute(sql)

record = r.fetchone()

return record

def room\_exist(room\_no):

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r = cnt.cursor()

sql ="select \* from room where room\_no ="+room\_no+";"

r.execute(sql)

record = r.fetchone()

return record

room\_no =input('Enter room no to book :')

id = input('Enter customer ID :')

check\_in\_date = input('Enter date of occupancy (yyyy-mm-dd):')

check\_out\_date = input('Enter date of leaving (yyyy-mm-dd):')

sql1 = 'update room set status = "occupied" where room\_no ='+room\_no +';'

sql2 = 'insert into booking(room\_no,id,check\_in\_date,check\_out\_date) values ('+room\_no+','+id+',"'+check\_in\_date+'","'+check\_out\_date+'");'

result = room\_exist(room\_no)

result1 = customer\_exist(id)

if result[4]=='Free' and result1 is not None:

r.execute(sql1)

r.execute(sql2)

print('Room no', room\_no, 'booked for', id)

cnt.commit()

if result[4]!='Free':

print('Room is not available for booking. Right now it is booked:')

cnt.commit()

if result1 is None:

print('Customer does not exist....Please add customer first in our database')

cnt.commit()

if z==3:

def Booking\_exist(room\_no):

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r = cnt.cursor()

sql ="select \* from booking where room\_no ="+room\_no+";"

r.execute(sql)

record = r.fetchone()

return record

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r=cnt.cursor()

room\_no=input("Enter your room number:")

sql="delete from booking where room\_no="+room\_no+";"

sql1="update room set status='Free' where room\_no="+room\_no+";"

result=Booking\_exist(room\_no)

if result is None:

r.execute(sql)

r.execute(sql1)

print("You have not booked your room")

cnt.commit()

if result is not None:

r.execute(sql)

r.execute(sql1)

cnt.commit()

print("Your Booking Cancelled Successfully")

if z==4:

break

if cho==3:

while True:

print("Welcome to Refreshment menu")

print("[1] Refreshment Menu")

print("[2] Exit to main menu")

o=int(input("Enter your choice:"))

if o==1:

while True:

print("\*"\*20,"Available Food","\*"\*20)

print("[1] Tea ---> 10")

print("[2] Coffee ---> 15")

print("[3] Samosa --->10")

print("[4] Sandwich ---> 30")

print("[5] Colddrink ---> 20")

print("[6] Pasta ----> 40")

h=int(input("Enter your choice:"))

if h==1:

print("You have ordered Tea:")

b=int(input("Enter Quantity:"))

sum1=10\*b

print("Your amountfor Tea:",sum1)

elif h==2:

print("You have ordered Coffee:")

b=int(input("Enter Quantity:"))

sum1=15\*b

print("Your amountfor Coffee:",sum1)

elif h==3:

print("You have ordered Samosa:")

b=int(input("Enter Quantity:"))

sum1=10\*b

print("Your amountfor Samosa:",sum1)

elif h==4:

print("You have ordered Sandwich:")

b=int(input("Enter Quantity:"))

sum1=30\*b

print("Your amountfor Sandwich:",sum1)

elif h==5:

print("You have ordered Colddrink:")

b=int(input("Enter Quantity:"))

sum1=20\*b

print("Your amountfor Colddrink:",sum1)

elif h==6:

print("You have ordered Pasta:")

b=int(input("Enter Quantity:"))

sum1=40\*b

print("Your amountfor Pasta:",sum1)

else:

print("please enter your choice from the menu")

u=input("Do you want to order more?[Y/N]:")

if u=='n':

break

if o==2:

break

if cho==4:

print("[1]Room bill:")

print("[2]Exit to main menu:")

n=int(input("Enter your choice"))

if n==1:

def room\_exist(room\_no):

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r = cnt.cursor()

sql ="select \* from room where room\_no ="+room\_no+";"

r.execute(sql)

record = r.fetchone()

return record

import mysql.connector

cnt = mysql.connector.connect(host='localhost', database='hotel', user='root', password='root')

r = cnt.cursor()

room\_no = input('Enter your room :')

id = input('Enter customer ID :')

bill\_no=input("Enter Customer Bill No.")

sql = "select \* from booking where id="+id+" and room\_no = "+room\_no+";"

r.execute(sql)

record = r.fetchone()

print('Bill Generation ')

print('-'\*100)

check\_in\_date = record[2]

check\_out\_date = record[3]

total\_days = (check\_out\_date-check\_in\_date).days

result = room\_exist(room\_no)

rent = result[3]

amount = total\_days\*rent

print('Date of Occupancy :',check\_in\_date, '\nDate of Leaving :',check\_out\_date)

print('Total Payable Days : ', total\_days)

print('Room Rent Per Day : ', rent)

print('Total Amount :',amount)

sql1 = 'update room set status ="free" where room\_no ='+room\_no+';'

sql2 = 'insert into bill(bill\_no,id,total\_amount) values('+str(bill\_no)+','+str(id)+','+str(amount)+');'

r.execute(sql1)

r.execute(sql2)

cnt.commit()

if n==2:

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Thanks For Visiting Please Visit Again\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

break

if cho==5:

break

Bibliography

Sumita arora Computer Science BooK – XI,XII

wikipedia