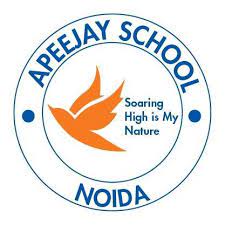
**APEEJAY SCHOOL NOIDA**

****

COMPUTER SCIENCE PROJECT  
ON  
**CABLE MANAGEMENT SYSTEM**

SUBMITTED TO:

Ms. SUJATA BHARDWAJ

SUBMITTED BY:

Name: DAKSH ARORA

Class: XII A

Board Roll No. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CERTIFICATE**

This is to certify that **DAKSH ARORA** of **XII A** has prepared the **Computer Science project** entitled “**Cable Management System**”. The report is the result of his efforts and 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.

Name of the external examiner:  
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  
Signature:  
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(Ms. Sujata Bhardwaj)  
PGT (Computer Science)

Department of Computer Science  
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**ACKNOWLEDGEMENT**

In the accomplishment of this project successfully, many people have bestowed upon me their blessings and the heart pledged support, this time I am utilizing to thank all the people who have been concerned with this project.

Primarily, I would like to thank my Computer Science teacher Ms. Sujata Bhardwaj, whose valuable guidance has been the ones that helped me patch this project and make it a full proof success. Her suggestions and her instructions have served as a major contributor towards the completion of the project.

Name of the student: Daksh Arora

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1.

**AIM:**

As the name suggests, the code revolves around the business of cable managing, but is not limited to it. With a little tweaking, it can be used for any business model, be it hospital management, school management or any other business. The main aim of this code is to ease the work load of a common micro/mini scale businessman who, otherwise, would have to take tones of papers to do the same

**ANALYSIS:**

Most of the micro/mini business handlers are either not aware or dont know how to use how to use database management softwares. But that should not stop them from advancing in the era of technology, where technology is everything and everything is technology.

**FLOWCHART: menu()**

login()

Yes

Is ans=2?

No Yes

Enter your choice

No

Is ans=3?

Is ans=1?

cya()

Yes No

Display “Please enter a valid option”

Display “Thank You”

cya():

2.

Execute: “insert into login values("'+nam+'","'+us+'","'+pd+'")

Display “Done”

Enter your Name

Enter your username

menu()

Enter your password

**login():**

Check the credentials entered by the user from the data procured from the login table

Do credentials match?

Get all the values from login table

Enter your password

Enter your Name

Enter your username

Yes No

Display “Your credentials dont match the data in our database”

menu2()

**menu2()**

3.

Display “Press  
1 to see the …..”

Is com=1?

No

Yes

Is com=2?

Get all the values from login table and display all of them

Yes

No

Is com=3?

update()

Yes

No

Is com=4?

bill()

Yes

Is com=5?

tr()

Yes

No

Is com=0?

rr()

No

Yes

menu()

**update():**

4.

Execute “update login set Name="'+newnam+'" where Name="'+nam+'";”

Display “Changes made successfully”

Enter name which needs to be edited

menu2()

Enter name which needs to be added

**bill()**

Display “Thank you so much”

Display “Please come again!”

Enter your Name

menu2()

Enter customer’s name

Enter the amount of payment to be received:

Enter number of channels to be added

Append the details into “bill.csv”

**tr()**

5.

Display “Thank you so much for giving your precious time to us.”

menu2()

Open “review.dat” file in append mode

Display “Please tell how much you liked our service”

Enter Customer's name:

Please rate out of 10

**rr():**

Open “review.dat” file in read mode

Read one line

Does it end?

No

Yes

menu2()

**CODE:**

6.

*DATABASE CREATION*

#Daksh

import csv

import mysql.connector as con

x=con.connect(host="localhost",user="root",password="Daksh@2705")

mycur=x.cursor()

mycur.execute("create database abd;")

mycur.execute("use abd;")

mycur.execute("create table login(Name varchar(20), usr varchar(20), pwd varchar(20))");

mycur.execute("create table cust(Name varchar(20), custname varchar(20), cash int(6), noc int(3));")

x.commit()

x.close()

with open ("review.dat","w") as f:

pass

with open ("bill.csv","w",newline='') as f:

a=['NAME','CUST\_NAME','AMOUNT','NO\_OF\_CHANNELS']

csv\_w=csv.writer(f)

csv\_w.writerow(a)

*MAIN CODE:*

#Daksh

import csv

import pickle

import mysql.connector as con

x=con.connect(host="localhost",user="root",password="abcd",database="abd")

mycur=x.cursor()

7.

def cya(): #cya--> Create Your Account

nam=input("Enter your name: ") #python mysql connectivity

us=input("Enter your username: ")

pd=input("Enter your password: ")

mycur.execute('insert into login values("'+nam+'","'+us+'","'+pd+'");')

x.commit()

print("Account Created Succesfully!")

menu()

def bill(): #bill--> Sends details of the bill to be generated to bill.csv

a=input("Enter your name: ") #csv file handling

b=input("Enter customer's name: ")

c=int(input("Enter the amount of payment to be recieved: "))

d=int(input("Enter number of channels to be added "))

with open ("bill.csv","a",newline='') as f:

z=[a,b,c,d]

csv\_w=csv.writer(f,delimiter=',')

csv\_w.writerow(z)

print("Bill details have been succesfully updated")

menu2()

def tr(): #tr--> Taking Review (binary file handling)

with open ("review.dat","ab") as f:

print("Please tell how much you liked our service ")

y=input("Enter Customer's name: ")

z=int(input("Please rate out of 10 "))

q=[y,z]

pickle.dump(q,f)

print("Thank you so much for giving your precious time to us.")

menu2()

def rr(): #rr--> Reading Review (binary file handling)

8.

with open ("review.dat","rb") as f:

string="{0:<15}{1:<5}"

print(string.format("Customer","Rating"))

while True:

try:

data=pickle.load(f)

print(string.format(data[0],data[1]))

except EOFError:

break

menu2()

def retry(): #part of update

ans=input("The given name is not in the database, do you want to retry (y/n):")

if ans=='y':

update()

elif ans=='n':

print("Ok")

else:

print("Please enter a valid option")

retry()

def update(): #update--> Updates name of the person

nam=input("Enter name which needs to be editted ")

mycur.execute("select \* from login;")

data=mycur.fetchall()

s=0

for row in data:

if nam==row[0]:

s+=1

newnam=input("Enter the name which will be added ")

mycur.execute('update login set Name="'+newnam+'" where Name="'+nam+'";')

x.commit()

9.

print("Changes made successfully!")

if s==0:

retry()

menu2()

def menu2(): #menu2--> menu shown after you login

print(" ")

print("Press")

print("1 to see the details of the workers")

print("2 to update details of the workers")

print("3 to generate bill")

print("4 to take review from the user")

print("5 to see the reviews from all the users")

print("0 to logout")

com=int(input("Enter your command "))

if com==1: #calling all the funtions defined above

mycur.execute("select \* from login;")

r=mycur.fetchall()

for i in r:

print(i)

menu2()

elif com==2:

update()

elif com==3:

bill()

elif com==4:

tr()

elif com==5:

rr()

elif com==0:

10.

menu()

def login(): #the option which checks for login

mycur.execute("select \* from login;") #python mysql connectivity

r=mycur.fetchall()

nam=input("Enter your name ")

us=input("Enter your username ")

pd=input("Enter your password ")

for i in r:

if i[0]==nam and i[1]==us and i[2]==pd:

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WELCOME TO DAKSH CABLE MANAGEMENT SYSTEM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("What do you want to do today? ")

menu2()

break

else:

print("Your credentials dont match the data in our database")

menu()

def menu(): #menu for the person to enter his credentials to gain access

print(" ")

print("Press")

print("1 to Log in")

print("2 to create your account")

print("3 to exit")

print(" ")

ans=int(input("enter your choice: "))

if ans==1:

login()

elif ans==2:

11.

cya()

elif ans==3:

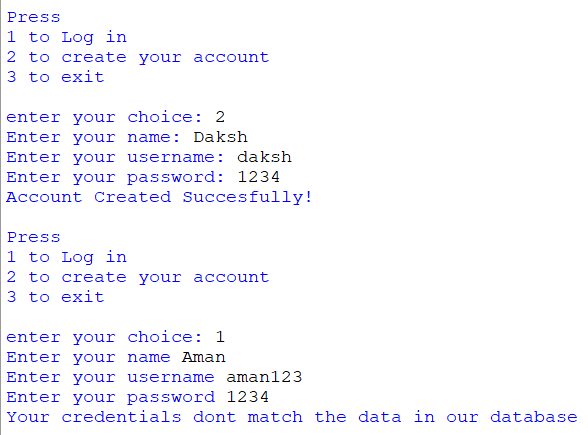
print("Thank you")

else:

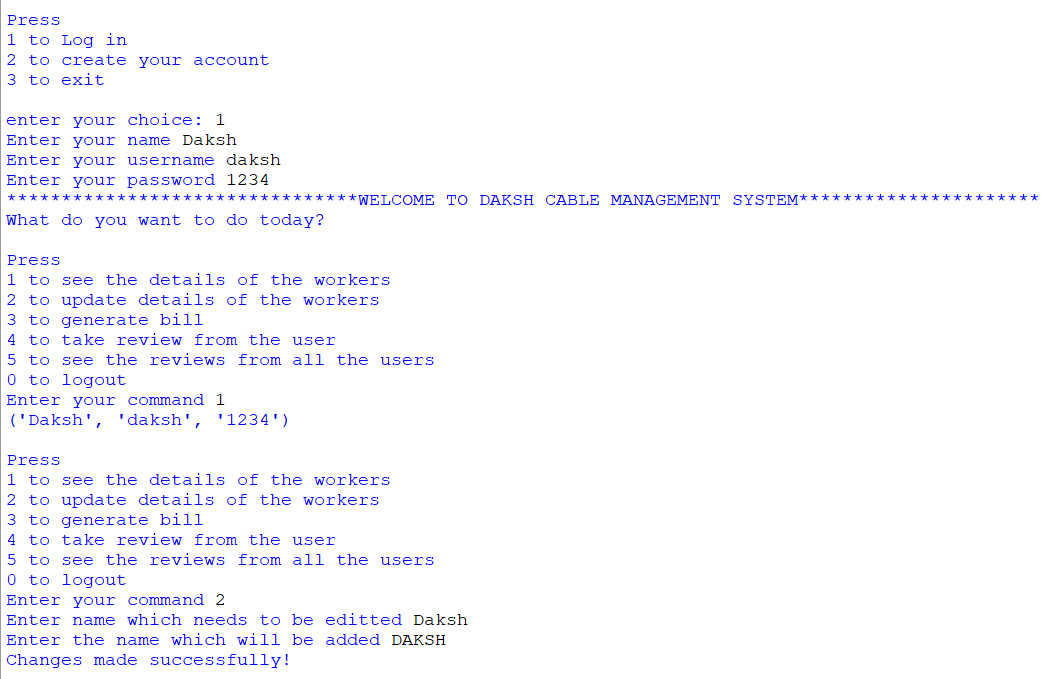
print("Please enter valid option ")

menu()

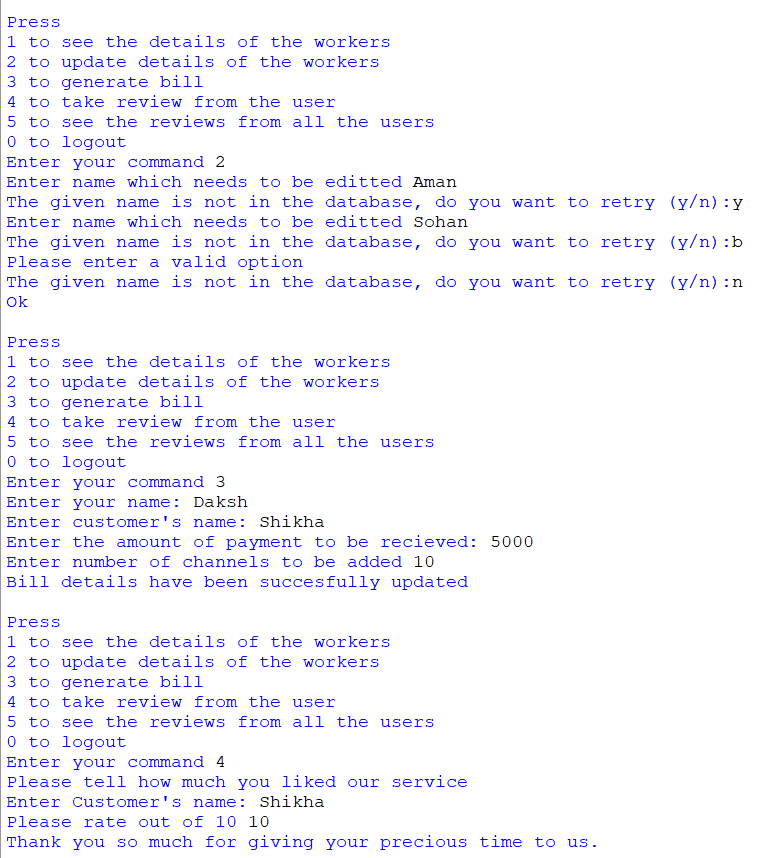
menu()

**OUTPUT:**

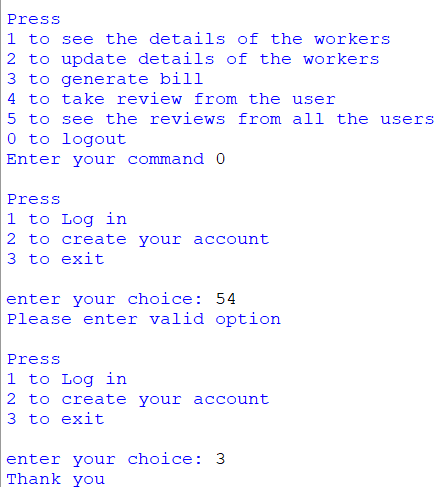
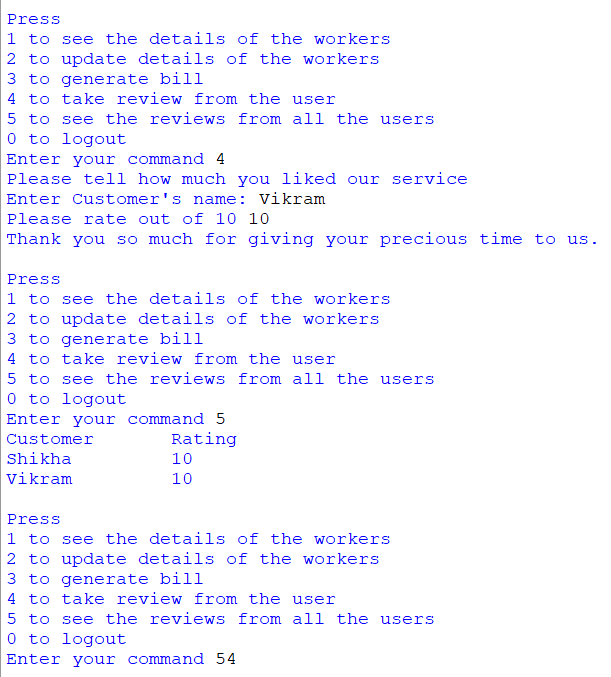
12.

****

12.

****

13.

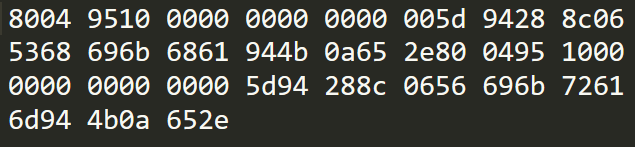


14.

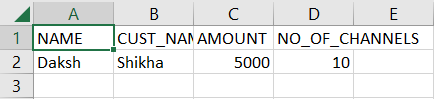
**HARDWARE REQUIREMENTS:**

15.

A laptop/ Desktop with with Python 3.9+ and MySQL with respective configurations done.

**LOGICAL DESIGN:**  
  
A look over-   
  
binary file (review.dat)  
  


Csv file (bill.csv)



**SCOPE OF IMPROVEMENT:**

16.

|  |  |
| --- | --- |
| USER INTERFACE | STOCK MANAGEMENT |
| This program is not user-friendly as its front-end designing was out of our scope, but if added, could a lot helpful for the actual users using it. | We have designed an overall cable management system but we could also include stock management in this too which would make this program even more useful |

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2. youtube.com
3. ncert.nic.in
4. github.com

**THANK YOU**