**INDEX**

1. INTRODUCTION
2. WORKFLOW
3. PYTHON CODE
4. OUTPUTS

**INTRODUCTION**

One of the most common formal means of communication is nowadays email. So we created an email system to communicate, easily and it is highly user friendly.

**FEATURES**

• Signup - login System

• Send Mail

• Inbox

• Check Sent mail

• Change Password

• User Friendly

**WORKFLOW**

This programm is user friendly first you have to sign in the system. Then you have to login the in the mail system. After login, you will be to do the following:

1. Compose an email
2. Check sent box
3. Check your inbox
4. Change your password

The main purpose of this program is to make the formal communication easier and user friendly, now you don’t have to worry if whether are computer savvy or not.

**CODING**

1. **Tables.py**

import mysql.connector as ms

mycon=ms.connect(host="localhost",user="root",db="vdmail",passwd="vibhu")

cur1 = mycon.cursor()

def login():

sql = '''create table login

(f\_name varchar(20) not null,

l\_name varchar(20) not null,

username varchar(50) not null primary key,

password varchar(30) not null)'''

cur1.execute(sql)

mycon.commit()

def mail():

sql = '''create table mail

(receiver varchar(50) not null,

sender varchar(50) not null,

message varchar(500) not null,

subject varchar(50),

msg\_date char(10))'''

cur1.execute(sql)

mycon.commit()

login()

mail()

mycon.close()

1. **VDmail.py**

import mysql.connector as ms

mycon = ms.connect(host="localhost",user="root",db="vdmail",passwd="vibhu")

cur1 = mycon.cursor()

def signup():

global username

global password

fname = str(input("Enter your first name\t"))

sname = str(input("Enter your last name\t"))

username = str(input("Create your username/email\t"))

print("Password should have 1 uppercase")

password = str(input("Create your password\t"))

print("Validating Username....")

res = email\_validation()

print("Validating Password....")

res2 = email\_validation()

if (res == 1 and res2 == 1):

sql = 'insert into login values(%s,%s,%s,%s)'

data = (fname,sname,username,password)

cur1.execute(sql,data)

mycon.commit()

print("Signup Complete")

ch3 = str(input("Do you want to login?(y/n)\t"))

if(ch3 == 'y' or ch3 == 'Y'):

login()

else:

print("Thank you for using VDmail")

else:

print("Email or Password is not valid")

try1 = str(input("Do you want to sign up again?(y/n)"))

if(try1 == 'y'):

signup()

else:

print("Thank you for using VDmail")

def email\_validation():

for i in username:

if(i == '@'):

print("Username Validation Complete")

a = 1

break

else:

continue

else:

a = 2

return a

def password\_validation():

for i in password:

if(i.isupper()):

print("Password Validation Complete")

a = 1

break

else:

continue

else:

a = 2

return a

def login():

global username

global password

username = str(input("Enter your username\t"))

password = str(input("Enter your password\t"))

sql = "select \* from login"

cur1.execute(sql)

result = cur1.fetchall()

a = 0

for i in result:

if(i[2] == username and i[3] == password):

print('Login is succesful')

ch4 = 'y'

while(ch4 == 'y'):

res = after\_login()

ch4 = str(input("Do you want to continue?(y/n)\t"))

print("Thank you for using VDmail")

else:

continue

else:

print("Invalid username or password")

ch5 = str(input("Do you want to login again?(y/n)\t"))

if(ch5 == 'y'):

login()

else:

print("Thank you for using VDmail")

def after\_login():

print("1. Compose")

print("2. Check Sent ")

print("3. Inbox")

print("4. Change Password")

ch2 = int(input("What do you want to do?\t"))

if(ch2 == 1):

res = compose()

if(res != 1):

print("That user doesnt exist")

elif(ch2 == 2):

check\_sent()

elif(ch2 == 3):

inbox()

elif(ch2 == 4):

change\_password()

else:

print("wrong input")

def compose():

receiver = str(input("Receiver's mail\t"))

subject = str(input("Enter the subject\t"))

mail = str(input("Enter your message\t"))

sql = "select \* from login"

cur1.execute(sql)

result = cur1.fetchall()

a = 0

for i in result:

if(i[2] == receiver):

sql = 'insert into mail values(%s,%s,%s,%s,%s)'

data = (receiver,username,mail,subject,ch6)

cur1.execute(sql,data)

mycon.commit()

print("Your message ->",mail,"has been sent")

a = 1

else:

continue

return a

def check\_sent():

sql = "select \* from mail"

cur1.execute(sql)

result = cur1.fetchall()

for i in result:

if(i[1] == username):

print("Reciever -> ",i[0]," | Date of mail ->",i[4])

print("Subject ->",i[3])

print("Mail ->",i[2])

print("------------------------------------------------------------------------")

def inbox():

sql = "select \* from mail"

cur1.execute(sql)

result = cur1.fetchall()

for i in result:

if(i[0] == username):

print("Sender -> ",i[1]," | Date of mail ->",i[4])

print("Subject ->",i[3])

print("Mail ->",i[2])

print("------------------------------------------------------------------------")

def change\_password():

newpass = str(input("Enter new password\t"))

sql = '''update login

set password = %s

where username = %s'''

data = (newpass,username)

cur1.execute(sql,data)

mycon.commit()

print("Changing password....")

print("Your new password is ",newpass)

ch6 = input("Enter today's date(dd/mm/20XX)\t")

print("1. Signup")

print("2. Login")

ch1 = int(input("what do you want to do?\t"))

if(ch1 == 1):

signup()

elif(ch1 == 2):

login()

else:

print("wrong input")

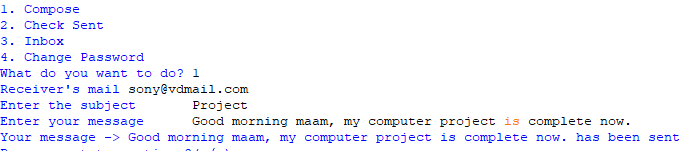
cur1.close()

mycon.close()

**Output**

**A screenshot of a cell phone

Description automatically generated**



A screenshot of a cell phone

Description automatically generated

A screenshot of a social media post

Description automatically generated