Python with sql database use atm

Concept project

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Program:

import random

import string

import smtplib

import mysql.connector

# import pandas as pd

#first emailaddress with app password insert next execute code

def create\_account():

try:

print("\*\*\*wellcome create account Enter detailes")

full\_name=input("Enter your fullname:")

email\_address=input("Enter your email address:")

print("your email send OTP successfully")

otb\_number=random.randint(0000,9999)

s=smtplib.SMTP('smtp.gmail.com',587)

s.starttls()

s.login("email\_address","password")

message=f"your OTB number {otb\_number}"

s.sendmail("email\_address",email\_address,message)

s.quit()

captcha=''.join(random.choices(string.digits,k=10))

email\_otp=int(input("Enter your OTP:"))

if otb\_number==email\_otp:

print("Enter OTP correct")

pin\_code=int(input("Enter your pincode 4 digits:"))

if pin\_code <= 10000:

print(f"your account number genrate:{captcha}")

else:

print(f"please enter pincode 4 digits number only-> {pin\_code}! invalid error ")

print("please try again")

create\_account()

balance\_add=input("Enter add balance:")

your\_profile=f"Your Account profile Your Name->{full\_name}\nYour Account Number->{captcha}\nYour Account Pin Number->{pin\_code}\nYour Account Balance->Rs{balance\_add}\-"

s=smtplib.SMTP('smtp.gmail.com',587)

s.starttls()

s.login("email\_address ","password")

s.sendmail("email\_address ",email\_address,your\_profile)

print("mail send successfully")

s.quit()

mydb=mysql.connector.connect(host="localhost",user="root",password="12345",database="atm\_machine")

mycurser=mydb.cursor()

sql="insert into account\_user\_details(holder\_name,account\_number,pin\_code,balance,email\_address) values(%s,%s,%s,%s,%s)"

value\_assemble=(full\_name,captcha,pin\_code,balance\_add,email\_address)

mycurser.execute(sql,value\_assemble)

mydb.commit()

user\_con=int(input("you want continue use ATM Yes press->1 /No press->2"))

if user\_con==1:

start\_process()

else:

print("Thank you for visit")

except NameError:

print("Your Enter Name Error")

except ValueError:

print("Your Enter Value Error")

except Exception as mistake:

print(str(mistake))

def balance\_enquiry():

try:

db\_config = {

"host": "localhost",

"user": "root",

"password": "12345",

"database": "atm\_machine",

}

connection = mysql.connector.connect(\*\*db\_config)

cursor = connection.cursor()

account\_number = input("Enter your account number: ")

Enter\_pincode=int(input("Enter your pincode:"))

query = "SELECT balance FROM account\_user\_details WHERE account\_number = %s And pin\_code = %s"

cursor.execute(query, (account\_number,(Enter\_pincode)))

row = cursor.fetchone()

if row is not None:

balance = row[0]

print(f"Balance for account No:{account\_number}:Rs {balance}\-")

else:

print("incorrect account number or pincode")

cursor.close()

connection.close()

user\_con=int(input("you want continue use ATM Yes press->1 /No press->2:"))

if user\_con==1:

start\_process()

else:

print("Thank you for visit")

except NameError:

print("Your Enter Name Error")

except ValueError:

print("Your Enter Value Error")

except Exception as mistake:

print(str(mistake))

def withdraw\_cash():

try:

db\_config = {

"host": "localhost",

"user": "root",

"password": "12345",

"database": "atm\_machine",

}

connection = mysql.connector.connect(\*\*db\_config)

cursor = connection.cursor()

account\_number = input("Enter your account number: ")

Enter\_pincode=int(input("Enter your pincode:"))

Enter\_cash=int(input("Enter Amount:"))

query = "SELECT balance FROM account\_user\_details WHERE account\_number = %s And pin\_code = %s"

cursor.execute(query, (account\_number,(Enter\_pincode)))

row = cursor.fetchone()

if row is not None:

balance = row[0]

else:

print("incorrect account number or pincode")

if Enter\_cash < balance:

final\_balance=balance-Enter\_cash

print("Your Amount Withdraw successfully")

print(f"your account available balance RS{final\_balance}\-")

email\_msg=f"your account available balance RS{final\_balance}\-"

else:

print("Your Enter amount less than amount your account")

update\_query ="UPDATE account\_user\_details SET balance = %s WHERE account\_number=%s"

cursor.execute(update\_query,(final\_balance,account\_number))

connection.commit()

acc\_number = (account\_number)

query = "SELECT email\_address FROM account\_user\_details WHERE account\_number"

cursor.execute(query)

row=cursor.fetchone()

if row:

value=row[0]

else:

print("not match record")

s=smtplib.SMTP('smtp.gmail.com',587)

s.starttls()

message=(f"your account withdraw amount Rs{Enter\_cash}\-,\n {email\_msg}")

s.login("email\_address ","password")

s.sendmail("email\_address ",value,message)

print("mail send successfully")

s.quit()

user\_con=int(input("you want continue use ATM Yes press->1 /No press->2"))

if user\_con==1:

start\_process()

else:

print("Thank you for visit")

except NameError:

print("Your Enter Name Error")

except ValueError:

print("Your Enter Value Error")

except Exception as mistake:

print(str(mistake))

def pin\_code\_change():

try:

mydb = mysql.connector.connect(host="localhost", user="root", password="12345", database="atm\_machine")

mycursor = mydb.cursor()

Enter\_acc\_number = int(input("Enter your account number:"))

sql = "SELECT email\_address FROM account\_user\_details WHERE account\_number = %s"

mycursor.execute(sql, (Enter\_acc\_number,))

row = mycursor.fetchone()

if row:

value = row[0]

print(f"Email address: {value}")

else:

print("You entered an incorrect account number")

otb\_number = random.randint(0, 9999)

s = smtplib.SMTP('smtp.gmail.com', 587)

s.starttls()

s.login("email\_address ", "password")

message = f"Your OTP number is {otb\_number}"

s.sendmail("email\_address ", value, message)

print("your email otp send successfully")

s.quit()

Enter\_otp = int(input("Enter your OTP:"))

if Enter\_otp == otb\_number:

Enter\_pincode = int(input("Enter your new pin code for 4->digits:"))

elif Enter\_pincode < 10000:

sql

else:

print(f"please Enter pincode 4 digits only->{Enter\_pincode}! invaild error")

print("please try again")

pin\_code\_change()

sql = "UPDATE account\_user\_details SET pin\_code = %s WHERE account\_number = %s"

mycursor.execute(sql, (Enter\_pincode, Enter\_acc\_number))

mydb.commit()

print("your account pin\_code change successfully")

print("This code don't share other person be carfully")

user\_con=int(input("you want continue use ATM Yes press->1 /No press->2"))

if user\_con==1:

start\_process()

else:

print("Thank you for visit")

except NameError:

print("Your Enter Name Error")

except ValueError:

print("Your Enter Value Error")

except Exception as mistake:

print(str(mistake))

def Deposit\_cash():

try:

db\_config = {

"host": "localhost",

"user": "root",

"password": "12345",

"database": "atm\_machine",

}

account\_number\_to\_deposit=int(input("Enter your account number"))

amount\_to\_increase =int(input("Enter deposit amount:"))

connection = mysql.connector.connect(\*\*db\_config)

cursor = connection.cursor()

update\_query = "UPDATE account\_user\_details SET balance = balance + %s WHERE account\_number = %s"

cursor.execute(update\_query, (amount\_to\_increase, account\_number\_to\_deposit))

print(f"Balance deposit successfully for account number {account\_number\_to\_deposit}\n deposit balance Rs{amount\_to\_increase}\-")

query = "SELECT email\_address FROM account\_user\_details WHERE account\_number"

cursor.execute(query)

row=cursor.fetchone()

if row:

value=row[0]

print(value)

s=smtplib.SMTP('smtp.gmail.com',587)

s.starttls()

message=(f"your account number->{account\_number\_to\_deposit}\n Deposit balance RS{amount\_to\_increase}\-")

s.login("email\_address ","password")

s.sendmail("email\_address ",value,message)

print("mail send successfully")

s.quit()

user\_con=int(input("you want continue use ATM Yes press->1 /No press->2"))

if user\_con==1:

start\_process()

else:

print("Thank you for visit")

except NameError:

print("Your Enter Name Error")

except ValueError:

print("Your Enter Value Error")

except Exception as mistake:

print(str(mistake))

def start\_process():

try:

print("\*\*\*\* Wellcome ATM \*\*\*")

print("your have new user create new account press->1")

print("your have alraedy user below choose options")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("Balance Enquiry press->2")

print("Withdraw press->3")

print("pin code change press->4")

print("Deposit press->5")

user=int(input("Enter your press key new user or already user:"))

if user==1:

create\_account()

if user==2:

balance\_enquiry()

if user==3:

withdraw\_cash()

elif user==4:

pin\_code\_change()

elif user==5:

Deposit\_cash()

else:

print(f"please Enter have options number->{user}! invalid error")

except NameError:

print("Your Enter Name Error")

except ValueError:

print("Your Enter Value Error")

except Exception as mistake:

print(str(mistake))

start\_process()