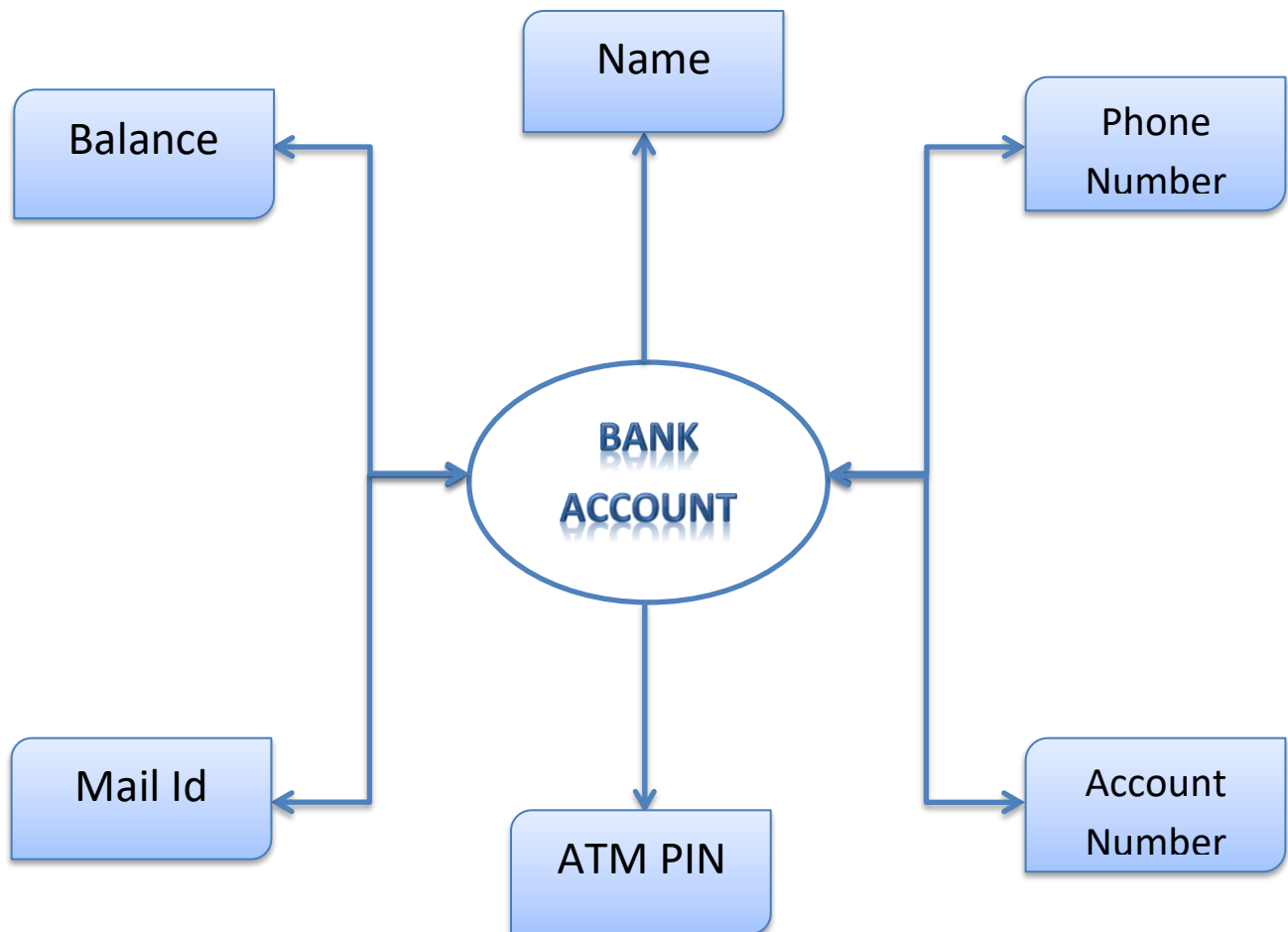


ATM MACHINE CONCEPT USING DATABASE

ER DIAGRAM :



CODE :

```
import mysql.connector
import smtplib
import datetime

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

mycursor = mydb.cursor()
x = datetime.datetime.now()
full_date = x.strftime("%d-%m-%y")

def deposit_cash() :
    print("We are processing your transaction...!\n    Please do not remove your card")
    sql = "insert into bank_details(name, phone_number, account_number, mail_id, balance , atm_PIN) values (%s, %s, %s, %s, %s, %s)"
    name = input("Enter your Fullname : ")
    phone_number = input("Enter your mobile number : ")
    account_number = input("Enter your account number : ")
    mail_id = input("Enter your email id : ")
    atm_PIN = input("Please enter your PIN : ")
    balance = (input("Enter the amount to be deposited : "))
    val = (name, phone_number, account_number, mail_id, balance, atm_PIN)
    mycursor.execute(sql, val)
    mydb.commit()
    print("    Please wait...\nYour transaction is being processed")
    print("YOUR AMOUNT IS DEPOSITED SUCCESSFULLY")

#.....Mail Code.....#

try:
    # creates SMTP session
    s = smtplib.SMTP('smtp.gmail.com', 587)
    # start TLS for security
    s.starttls()
    # Authentication
    s.login("thasneemsamees@gmail.com", "ehmq bjte tbqk xseh")
```

```

        # message to be sent
        message = f"Amount deposited to the A/c no. xx{account_number[10:]} on
{full_date}. Your balance is {balance} "
        # sending the mail
        s.sendmail("thasneemsamees@gmail.com", mail_id, message)
        # terminating the session
        s.quit()
        print("Mail sent successfully")
    except :
        print("There is something error in sending mail...!")
    return_card()

def account_balance() :
    print("We are processing your transaction...!\n  Please do not remove your
card")
    atm_PIN = input("Please enter your PIN : ")
    mycursor.execute(f"Select balance from bank_details where atm_PIN =
{atm_PIN}")
    myresult = mycursor.fetchone()
    print("      Please wait...\nYour transaction is being processed")
    print(f"YOUR ACCOUNT BALANCE IS {myresult} ")
    return_card()

def withdraw_cash() :
    print("We are processing your transaction...!\n  Please do not remove your
card")
    account_number = input("Please enter your account_number : ")
    amount = int(input("Enter the amount to be withdrawn : "))
    mycursor.execute(f"Select balance from bank_details where account_number =
{account_number}")
    balance = mycursor.execute()
    print(f"balance is {balance}")
    if balance >= amount :
        new_balance = (balance - amount)
        if mycursor.execute(f"update bank_details set balance = {new_balance}
where account_number = {account_number}") :
            mydb.commit()
            print("Withdrawal Successful")
        else :
            print("Insufficient balance")
    else :
        print("Invalid PIN")
    return_card()

def return_card() :

```

```
print("Please collect your card")

def main_func() :
    print("    ***Welcome to HDFC Bank*** \n    Please insert your card...")
    print("    Select your transaction    ")
    print("To Deposit Cash...CLICK <1>")
    print("To Check account balance...CLICK <2>")
    print("To Withdraw Cash...CLICK <3>")

    try :
        user = int(input("Enter a number : "))
        if user == 1 :
            deposit_cash()
        elif user == 2 :
            account_balance()
        elif user == 3 :
            withdraw_cash()
        else :
            return_card()
    except :
        print("Oops...Something went wrong !")
main_func()
```

OUTPUT :

```
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/ATM.py/project_atm.py"
***Welcome to HDFC Bank***
Please insert your card...
Select your transaction
To Deposit Cash...CLICK <1>
To Check account balance...CLICK <2>
To Withdraw Cash...CLICK <3>
Enter a number : 1
We are processing your transaction...!
Please do not remove your card
Enter your Fullname : Thasneem
Enter your mobile number : 7695933069
Enter your account number : 10437890287456
Enter your email id : thasneemsamees@gmail.com
Please enter your PIN : 2081
Enter the amount to be deposited : 15000
Please wait...
Your transaction is being processed
YOUR AMOUNT IS DEPOSITED SUCCESSFULLY
Mail sent successfully
Please collect your card
PS D:\Python Project> |
```

```
1 • SELECT * FROM atm_db.bank_details;
```

[illegible]

```
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/ATM.py/project_atm.py"
***Welcome to HDFC Bank***
Please insert your card...
Select your transaction
To Deposit Cash...CLICK <1>
To Check account balance...CLICK <2>
To Withdraw Cash...CLICK <3>
To Return Card...CLICK <4>
Enter a number : 2
We are processing your transaction...!
Please do not remove your card
Please wait...
Your transaction is being processed
YOUR ACCOUNT BALANCE IS ('25,000',)
Please collect your card
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/ATM.py/project_atm.py"
***Welcome to HDFC Bank***
Please insert your card...
Select your transaction
To Deposit Cash...CLICK <1>
To Check account balance...CLICK <2>
To Withdraw Cash...CLICK <3>
To Return Card...CLICK <4>
Enter a number : 3
Please do not remove your card
Please enter your account number : 10938345789034
Enter the amount to be withdrawn : 2000
Oops...Something went wrong !
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/ATM.py/project_atm.py"
***Welcome to HDFC Bank***
Please insert your card...
Select your transaction
To Deposit Cash...CLICK <1>
To Check account balance...CLICK <2>
To Withdraw Cash...CLICK <3>
To Return Card...CLICK <4>
Enter a number : 4
```