Submitted by :

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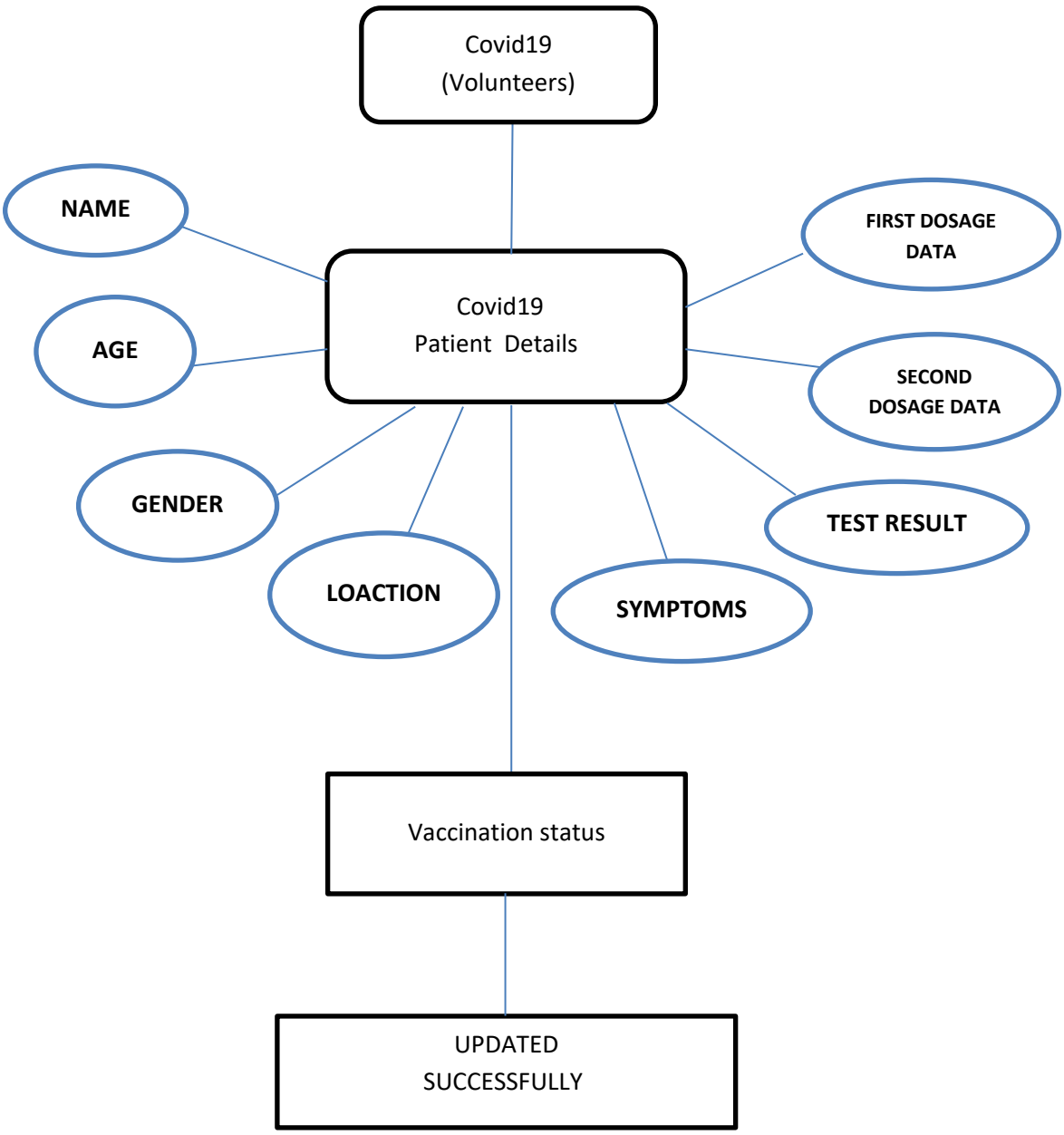
PROJECT →1

COVID -19 DATA MAINTENANCE SURVEY SOFTWARE DATA CODING



CODE:

```
import mysql.connector
import main_details
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="12345",
    database="covid19_db"
)

mycursor = mydb.cursor()

#covid19 details

def covid19_details():

#insert data

sql = "INSERT INTO covid19_details (patient_name, patient_age, gender,
location, symptoms, test_result, vaccination_status, first_dosage_status,
second_dosage_status) VALUES (%s,%s,%s,%s,%s,%s,%s,%s,%s)"
    patient_name = input("Enter Your Name:")
    patient_age = input("Enter Your Age:")
    gender = input("Enter Your Gender:")
    location = input("Enter Your Location:")
    symptoms = input("List any symptoms (comma-separated): ").split(',')
    test_result = input("Enter your test result (positive/negative): ")
    vaccination_status = input("Are you vaccinated? (yes/no): ")

    # Define the dosage dates based on vaccination status
    if vaccination_status.lower() == 'yes':
        first_dosage_status = input("Enter the date of your first dosage: ")
        second_dosage_status = input("Enter the date of your second dosage: ")
    else:
        first_dosage_status = None
        second_dosage_status = None

    val = (patient_name, patient_age, gender, location, ','.join(symptoms),
test_result, vaccination_status, first_dosage_status, second_dosage_status)
    mycursor.execute(sql, val)
    mydb.commit()
    print(f"Patient {patient_name} details have been uploaded... ! ")
    var=input("Do You Want To Continue Press Yes: ")
    if var=="yes":
       main_details.access_function()
    else:
        print(" ********** Thanks For Updating********** ")
```

```python
# view data

def view_covid19_details():
    mycursor.execute("SELECT * FROM covid19_details")  # Corrected table name
    myresult = mycursor.fetchall()
    for i in myresult:
        print(i)
    var = input("Do You Want To Continue? Press Yes: ")
    if var == "yes":
        main_details.access_function()
    else:
        print("Response recorded successfully.")


def update_covid19_details():

    #update data

    sql="update covid19_details set vaccination_status ='yes' where id=2"
    mycursor.execute(sql)
    mydb.commit()
    print(" ***********Updated Successfully******** ")
    var=input("Do You Want To Continue Press Yes: ")
    if var=="yes":
       main_details.access_function()
    else:
        print(" *********** Thanks For Updating*********** ")


def delete_covid19_details():

    #delete data

    column_name=input("Which column you want to delete:")
    delete_data=input(f"Which data  you want to delete in {column_name}
column: ")
    sql= f"Delete from covid19_details where {column_name} = %s"
    mycursor.execute(sql, (delete_data,))
    mydb.commit()
    print(" ***********Deleted Successfully******** ")

    var=input("Do You Want To Continue Press Yes: ")
    if var=="yes":
         main_details.access_function()
    else:
        print(" *********** Thanks For Updating*********** ")
```

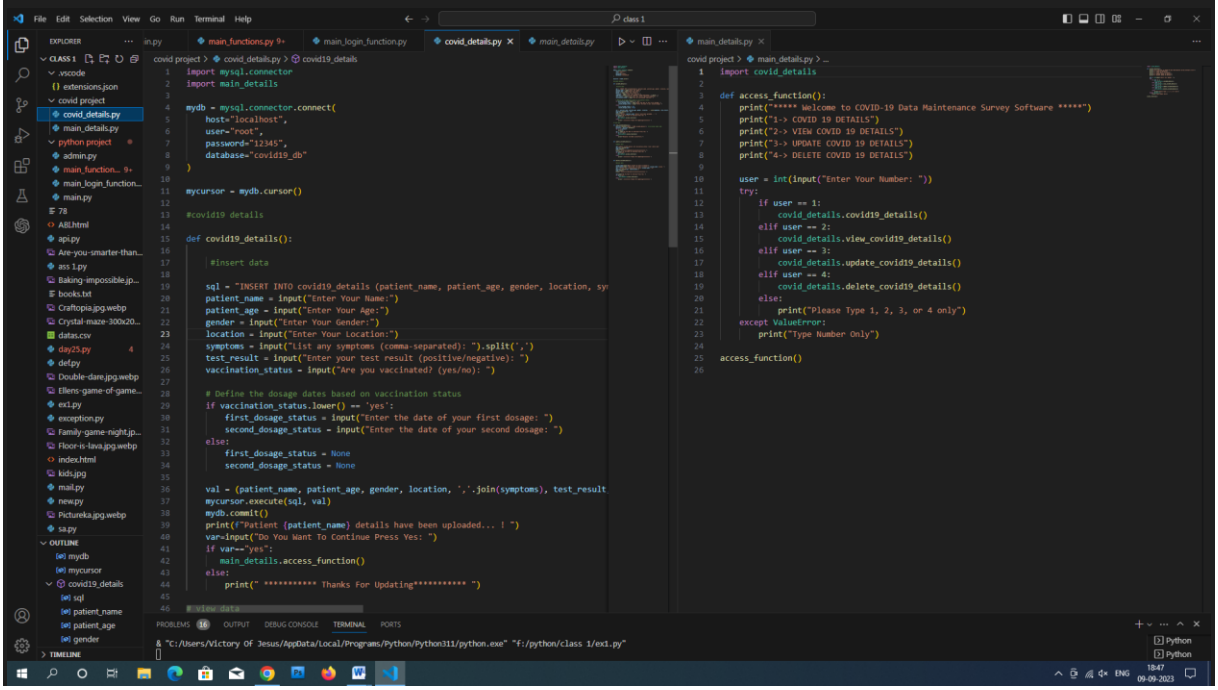
```python
import covid_details


def access_function():
    print("***** Welcome to COVID-19 Data Maintenance Survey Software *****")
    print("1-> COVID 19 DETAILS")
    print("2-> VIEW COVID 19 DETAILS")
    print("3-> UPDATE COVID 19 DETAILS")
    print("4-> DELETE COVID 19 DETAILS")

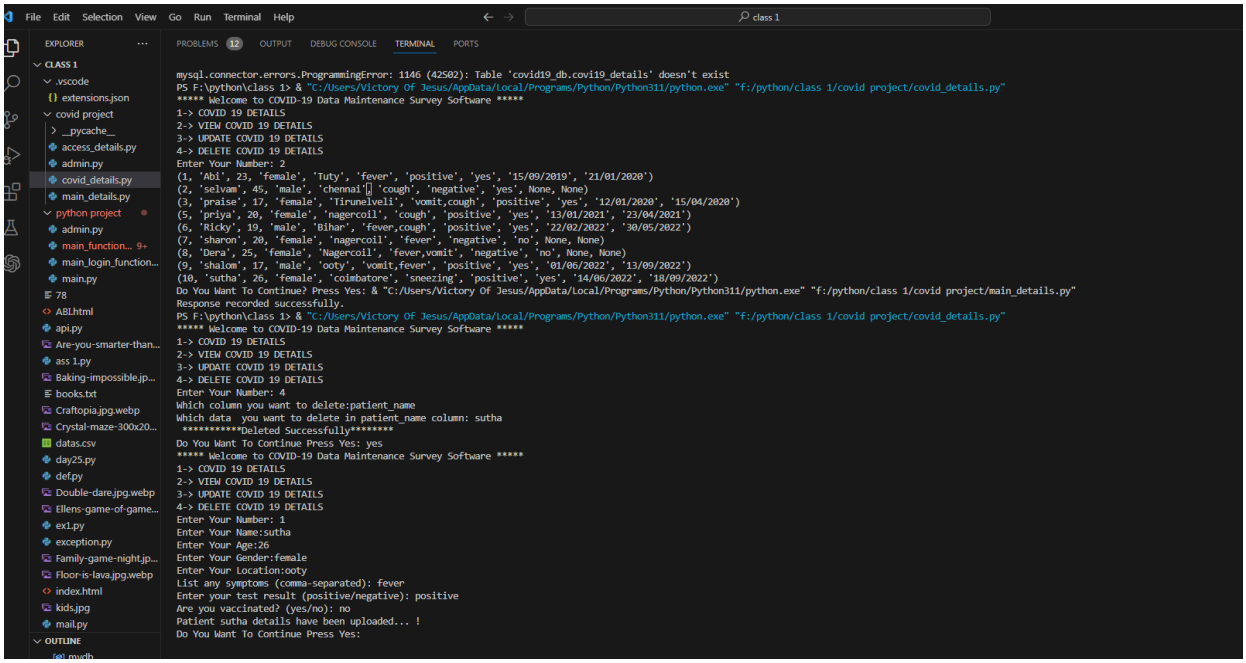
    user = int(input("Enter Your Number: "))
    try:
        if user == 1:
            covid_details.covid19_details()
        elif user == 2:
            covid_details.view_covid19_details()
        elif user == 3:
            covid_details.update_covid19_details()
        elif user == 4:
            covid_details.delete_covid19_details()
        else:
            print("Please Type 1, 2, 3, or 4 only")
    except ValueError:
        print("Type Number Only")

access_function()
```

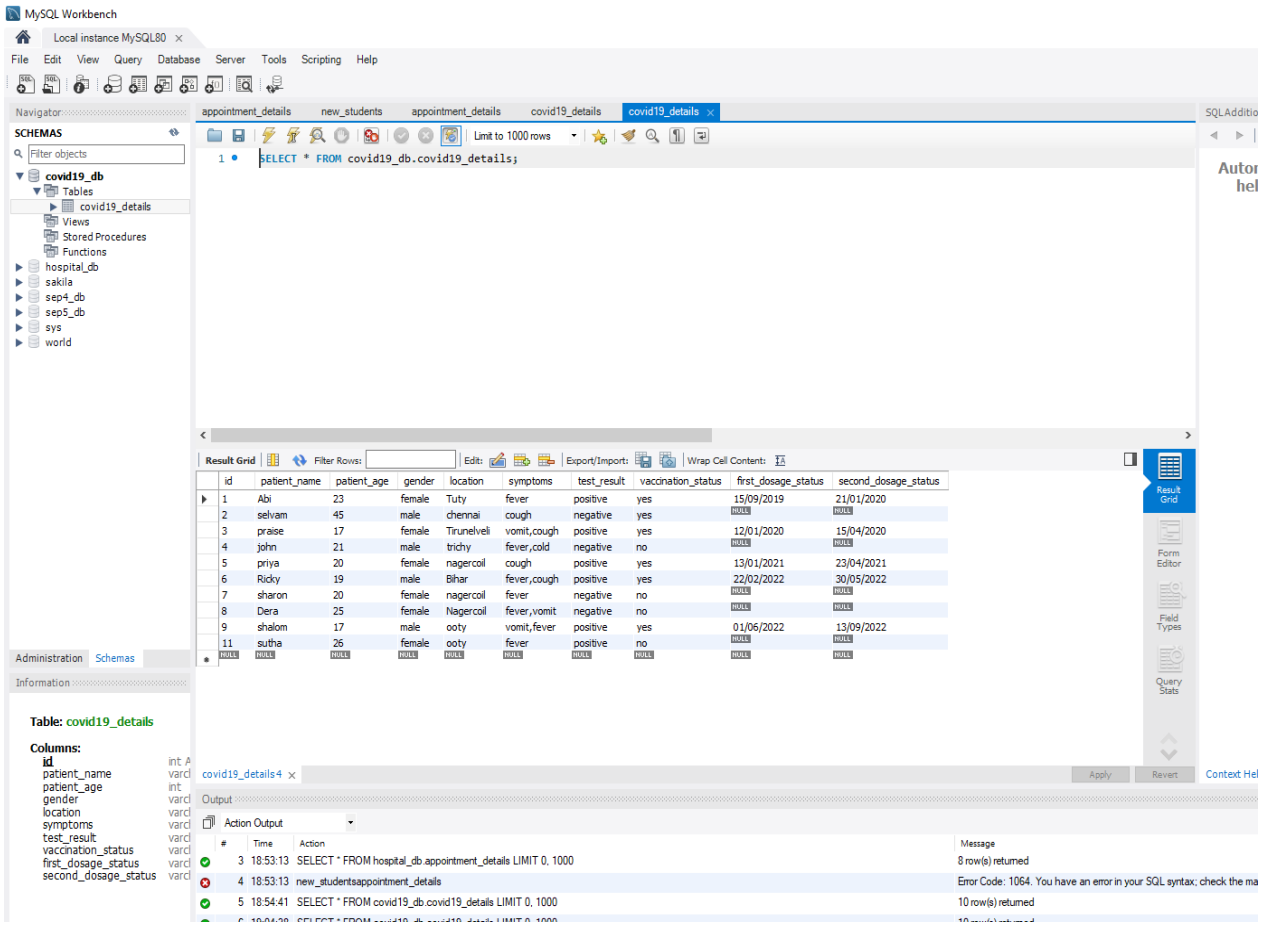
OVERVIEW:



OUTPUT:

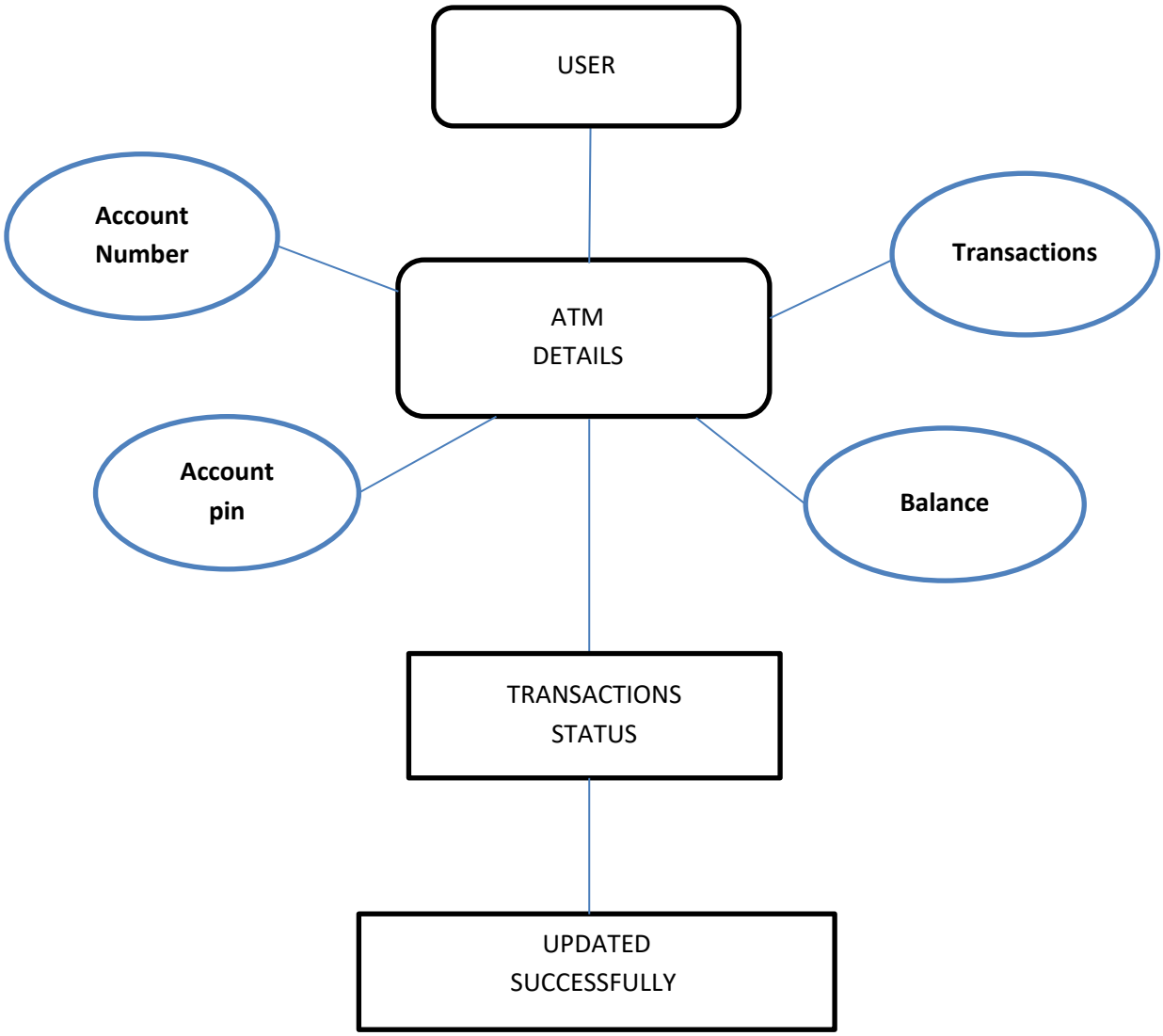


OUTPUT IN DATABASE:



PROJECT →2

ATM MACHINE CONCEPT USING DATBASE:



CODE:

```
import mysql.connector
import atm_access

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

mycursor = mydb.cursor()

print("***** Welcome to the  Deraz ATM System *****")
account_number = int(input("Enter your Account Number: "))
account_pin = int(input("Enter your PIN: "))

def main():
      #insert data
      sql = "INSERT INTO atm_maintenance (account_number, account_pin,
balance, transactions) VALUES (%s,%s,%s,%s)"
      account_number = input("Enter The Account Number:")
      account_pin =input("Enter The Account Pin:")
      balance=input("Enter The Account Balance:")
      transactions=input("Enter The Account Transaction:")
      val = (account_number, account_pin, balance, transactions)
      mycursor.execute(sql, val)
      mydb.commit()
      print("  ******SUCCESSFULLY UPLOADED*****" )
#check balance

def check_balance():
        sql = "SELECT balance FROM atm_maintenance WHERE account_number = %s
AND account_pin = %s"
        val = (account_number, account_pin)
        mycursor.execute(sql, val)
        account_balance = mycursor.fetchone()
        for i in account_balance:
            print(i)
        if  account_balance:
            print("Balance History:")
            print(account_balance[0])
        else:
            print("No transaction history found for this account.")
        var=input("Do You Want To Continue Press Yes: ")
        if var=="yes":
         atm_access.access_function()
        else:
```

```
            print(" *** Goodbye! Thank you for using the ATM *** ")

#withdrawal amount

def withdrawal_amount():
    # Get the withdrawal amount from the user
        withdrawal_amount = float(input("Enter the withdrawal amount: "))
        # Check if the account exists and retrieve the current balance
        sql = "SELECT balance FROM atm_maintenance WHERE account_number = %s"
        val = (account_number,)
        mycursor.execute(sql, val)
        account_balance = mycursor.fetchone()

        if account_balance and account_balance[0] >= withdrawal_amount:
            new_balance = account_balance[0] - withdrawal_amount

            # Update the account balance in the database
            sql = "UPDATE atm_maintenance SET balance = %s WHERE
account_number = %s"
            val = (new_balance, account_number)
            mycursor.execute(sql, val)

            # Update the transaction history in the database
            transaction = f"Withdrawal of ${withdrawal_amount:}"
            sql = "UPDATE atm_maintenance SET transactions = %s WHERE
account_number = %s"
            val = (f"\n{transaction}", account_number)
            mycursor.execute(sql, val)
            mydb.commit()
            print(f"Withdrawal successful. Remaining balance:
${new_balance:}")
        else:
            print("Insufficient balance.")
        var=input("Do You Want To Continue Press Yes: ")
        if var=="yes":
            atm_access.access_function()
        else:
             print(" *** Goodbye! Thank you for using the ATM *** ")

    #deposit amount

def deposit_amount():
        deposit_amount = float(input("Enter the deposit amount: "))
        # Check if the account exists and retrieve the current balance
        sql = "SELECT balance FROM atm_maintenance WHERE account_number = %s"
        val = (account_number,)
        mycursor.execute(sql, val)
        account_balance = mycursor.fetchone()
```

```
        if account_balance:
            # Calculate the new balance after deposit
            new_balance = account_balance[0] + deposit_amount

            # Update the account balance in the database
            sql = "UPDATE atm_maintenance SET balance = %s WHERE
account_number = %s"
            val = (new_balance, account_number)
            mycursor.execute(sql, val)
            mydb.commit()
            print(f"Deposit successful. New balance: ${new_balance:}")
        else:
            print("Invalid account number. Please try again.")
        var=input("Do You Want To Continue Press Yes: ")
        if var=="yes":
         atm_access.access_function()
        else:
            print(" *** Goodbye! Thank you for using the ATM *** ")

#transaction detail

def view_transaction_history():
        sql = "SELECT transactions FROM atm_maintenance WHERE account_number =
%s"
        val = (account_number,)
        mycursor.execute(sql, val)
        transaction_history = mycursor.fetchone()
        for i in transaction_history:
            print(i)
        if  transaction_history:
            print("Transaction History:")
            print(transaction_history[0])
        else:
            print("No transaction history found for this account.")
        var=input("Do You Want To Continue Press Yes: ")
        if var=="yes":
         atm_access.access_function()
        else:
            print(" *** Goodbye! Thank you for using the ATM *** ")

#change pin

def new_pin():
 new_pin = int(input("Enter your new PIN: "))

 # Update the PIN in the database
```

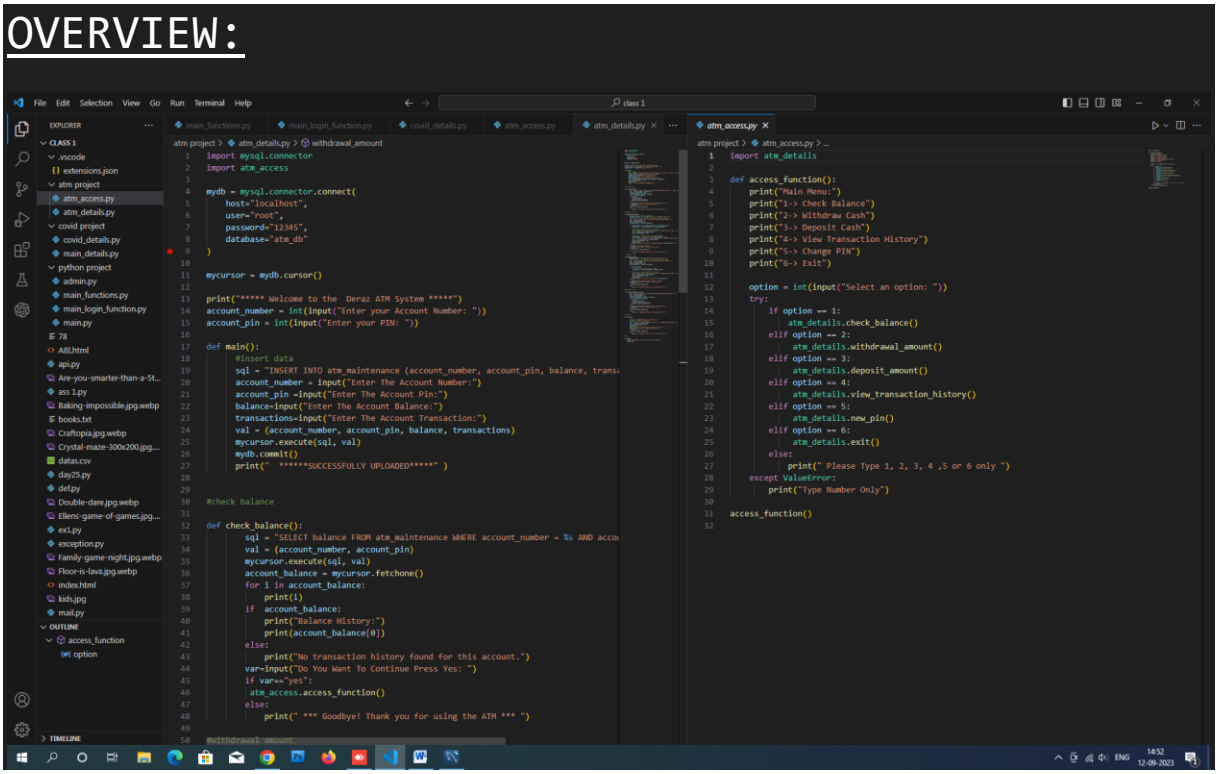
```
        sql = "UPDATE atm_maintenance SET account_pin = %s WHERE
account_number = %s"
        val = (new_pin, account_number)
        mycursor.execute(sql, val)
        mydb.commit()
        print("********** PIN changed successfully ********")
        var=input("Do You Want To Continue Press Yes: ")
        if var=="yes":
         atm_access.access_function()
        else:
            print(" *** Goodbye! Thank you for using the ATM *** ")

#exit
def exit():
    print(" *** Goodbye! Thank you for using the ATM ***")
    mydb.close()

import atm_details

def access_function():
    print("Main Menu:")
    print("1-> Check Balance")
    print("2-> Withdraw Cash")
    print("3-> Deposit Cash")
    print("4-> View Transaction History")
    print("5-> Change PIN")
    print("6-> Exit")
    option = int(input("Select an option: "))
    try:
        if option == 1:
            atm_details.check_balance()
        elif option == 2:
             atm_details.withdrawal_amount()
        elif option == 3:
             atm_details.deposit_amount()
        elif option == 4:
             atm_details.view_transaction_history()
        elif option == 5:
             atm_details.new_pin()
        elif option == 6:
             atm_details.exit()
        else:
            print(" Please Type 1, 2, 3, 4 ,5 or 6 only ")
    except ValueError:
        print("Type Number Only")
access_function()
```

OVERVIEW:



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print("***** Welcome to the  Deraz ATM System *****")
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def main():
    #insert data
    sql = "INSERT INTO atm_maintenance (account_number, account_pin, balance, transa
    account_number = input("Enter The Account Number:")
    account_pin =input("Enter The Account Pin:")
    balance=input("Enter The Account Balance:")
    transactions=input("Enter The Account Transaction:")
    val = (account_number, account_pin, balance, transactions)
    mycursor.execute(sql, val)
    mydb.commit()
    print("  ******SUCCESSFULLY UPLOADED*****" )


#check balance

def check_balance():
        sql = "SELECT balance FROM atm_maintenance WHERE account_number = %s AND acco
        val = (account_number, account_pin)
        mycursor.execute(sql, val)
        account_balance = mycursor.fetchone()
        for i in account_balance:
            print(i)
        if  account_balance:
            print("Balance History:")
            print(account_balance[0])
        else:
            print("No transaction history found for this account.")
        var=input("Do You Want To Continue Press Yes: ")
        if var=="yes":
         atm_access.access_function()
        else:
            print(" *** Goodbye! Thank you for using the ATM *** ")

#withdrawal amount
```

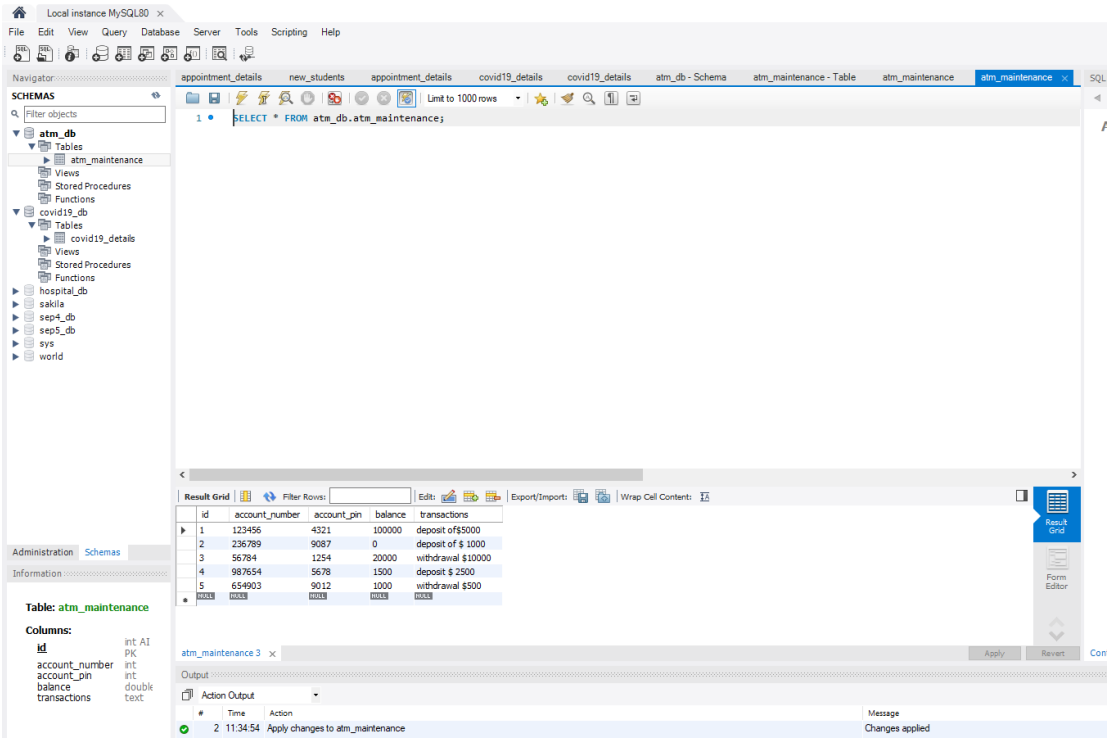
```python
import atm_details

def access_function():
    print("Main Menu:")
    print("1-> Check Balance")
    print("2-> Withdraw Cash")
    print("3-> Deposit Cash")
    print("4-> View Transaction History")
    print("5-> Change PIN")
    print("6-> Exit")

    option = int(input("Select an option: "))
    try:
        if option == 1:
            atm_details.check_balance()
        elif option == 2:
            atm_details.withdrawal_amount()
        elif option == 3:
            atm_details.deposit_amount()
        elif option == 4:
            atm_details.view_transaction_history()
        elif option == 5:
            atm_details.new_pin()
        elif option == 6:
            atm_details.exit()
        else:
            print(" Please Type 1, 2, 3, 4 ,5 or 6 only ")
    except ValueError:
        print("Type Number Only")

access_function()
```

OUTPUT IN DATABASE :



```
SELECT * FROM atm_db.atm_maintenance;
```

id	account_number	account_pin	balance	transactions
1	123456	4321	100000	deposit of$5000
2	236789	9087	0	deposit of $ 1000
3	56784	1254	20000	withdrawal $10000
4	987654	5678	1500	deposit $ 2500
5	654903	9012	1000	withdrawal $500
NULL	NULL	NULL	NULL	NULL

Table: atm_maintenance

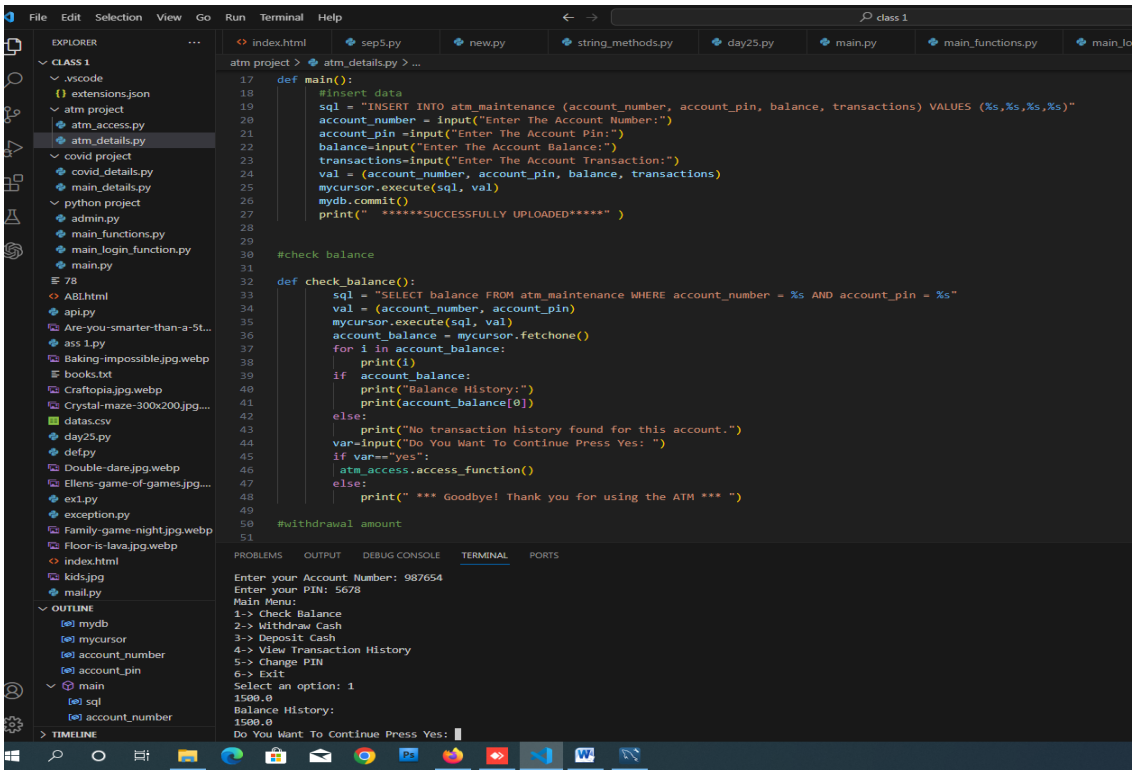
Columns:

id int AI PK
account_number int
account_pin int
balance double
transactions text

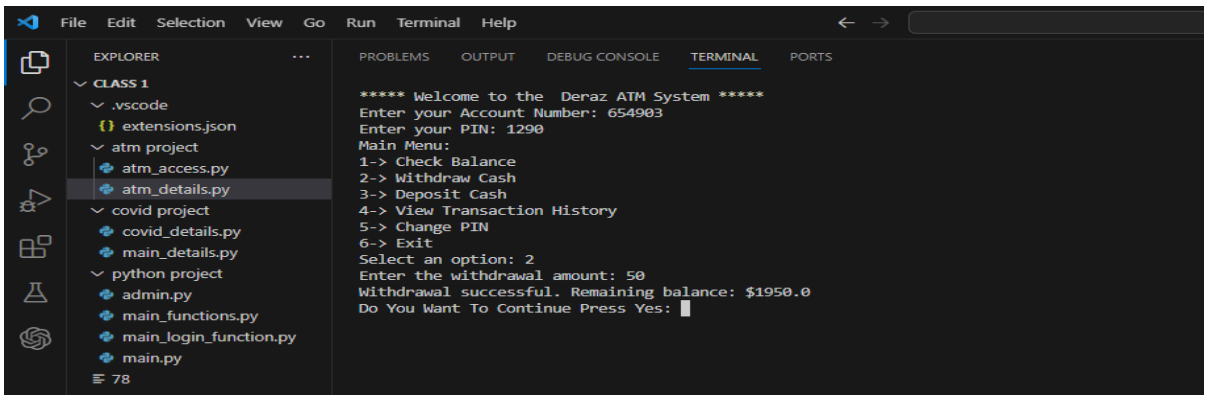
Action Output

#	Time	Action	Message
2	11:34:54	Apply changes to atm_maintenance	Changes applied

Output:FOR CHECK BALANCE



OUTPUT: FOR WITHDRAWAL BALANCE



OUTPUT: FOR Deposit Cash ,View Transaction History ,Change PIN ,Exit