

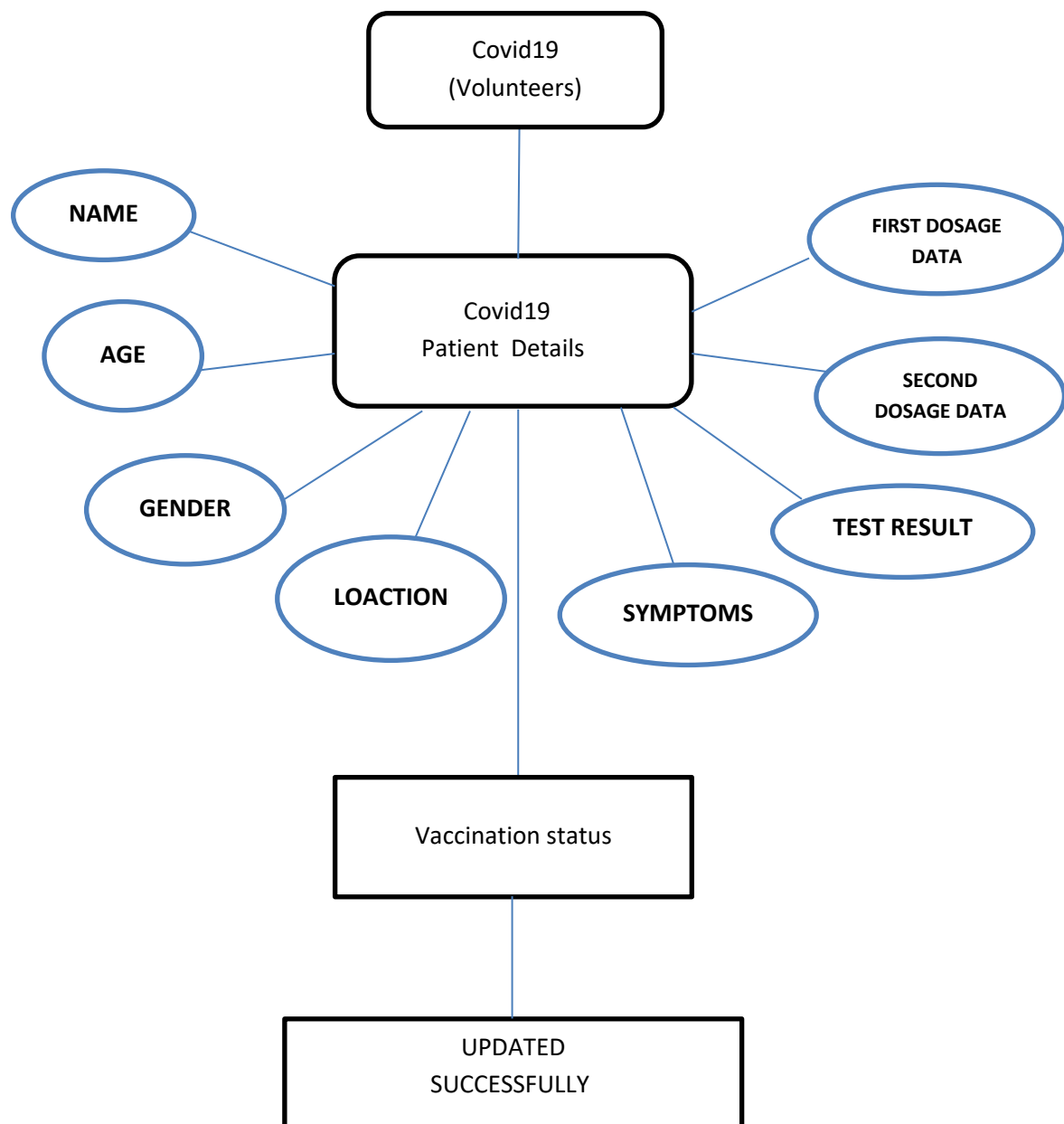
Submitted by :

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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***** ")
```

```

# 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***** ")

```

```

import covid_details

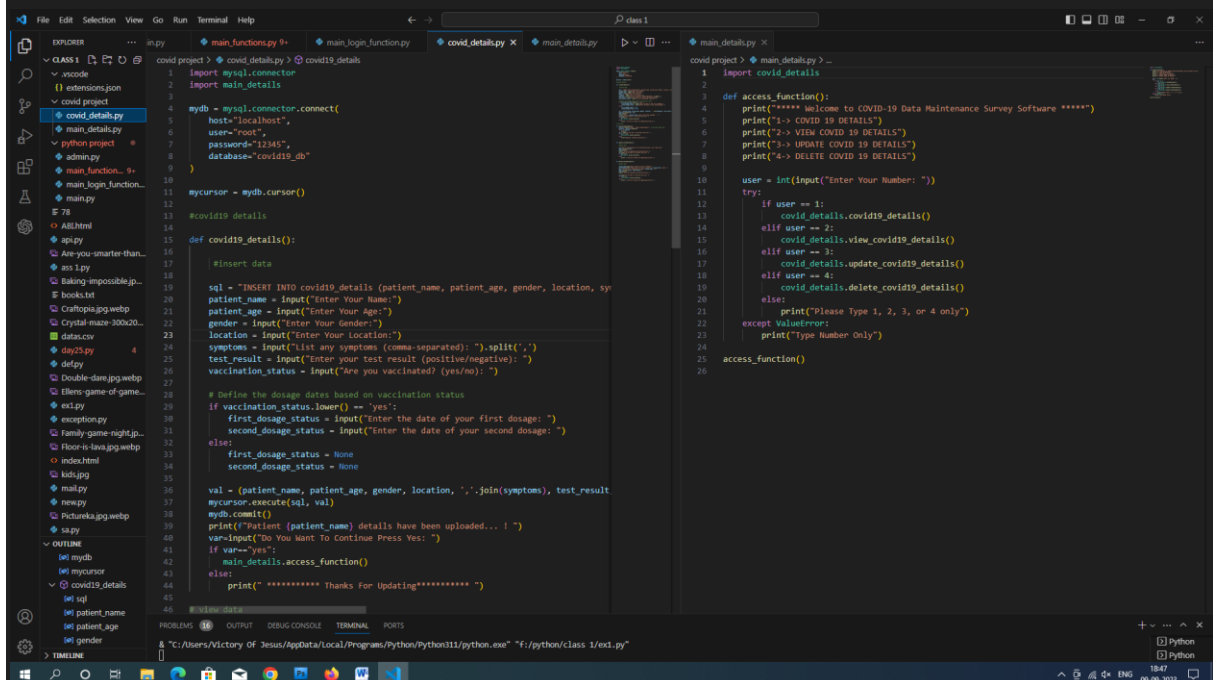
def access_function():
    print("***** Welcome to COVID-19 Data Maintenance Survey Software *****")
    print("1-> COVID 19 DETAILS")
    print("2-> VIEW COVID 19 DETAILS")
    print("3-> UPDATE COVID 19 DETAILS")
    print("4-> DELETE COVID 19 DETAILS")

    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:

```
File Edit Selection View Go Run Terminal Help
class1

EXPLORER
class1
  .vscode
  extensions.json
  covid project
    _pycache_
    access_details.py
    admin.py
    covid_details.py
    main_details.py
  python project
    admin.py
    main_function... 9-
    main_login_func...
    main.py
  78
  ABHTML
  ap.py
  Are-you-smarter-than...
  ass1.py
  Baking-impossible.jp...
  books.txt
  Craftopia.jpg.webp
  Crystal-maze-300x20...
  datas.csv
  day25.py
  defpy
  Double-dare.jpg.webp
  Ellens-game-of-game...
  ex1.py
  exception.py
  Family-game-night.jp...
  Floor-is-lava.jpg.webp
  index.html
  kids.jpg
  mail.py
  OUTLINE
  url_munch

PROBLEMS 12 OUTPUT DEBUG CONSOLE TERMINAL PORTS

mysql.connector.errors.ProgrammingError: 1146 (42S02): Table 'covid19_db.covid19_details' doesn't exist
PS F:\python\class 1> & "C:/Users/Victory OF Jesus/AppData/Local/Programs/Python/Python311/python.exe" "f:/python/class 1/covid project/covid_details.py"
***** Welcome to COVID-19 Data Maintenance Survey Software *****
1-> COVID 19 DETAILS
2-> VIEW COVID 19 DETAILS
3-> UPDATE COVID 19 DETAILS
4-> DELETE COVID 19 DETAILS
Enter Your Number: 2
(1, 'Abi', 23, 'female', 'Tuty', 'fever', 'positive', 'yes', '15/09/2019', '21/01/2020')
(2, 'selvam', 45, 'male', 'chennai', 'cough', 'negative', 'yes', None, None)
(3, 'praise', 17, 'female', 'Tirunelveli', 'vomit,cough', 'positive', 'yes', '12/01/2020', '15/04/2020')
(5, 'priya', 20, 'female', 'nagercoil', 'cough', 'positive', 'yes', '13/01/2021', '23/04/2021')
(6, 'Ricky', 19, 'male', 'Bihar', 'fever,cough', 'positive', 'yes', '22/02/2022', '30/05/2022')
(7, 'sharon', 20, 'female', 'nagercoil', 'fever', 'negative', 'no', None, None)
(8, 'Dera', 25, 'female', 'Nagercoil', 'fever,vomit', 'negative', 'no', None, None)
(9, 'shalom', 17, 'male', 'ooty', 'vomit,fever', 'positive', 'yes', '01/06/2022', '13/09/2022')
(10, 'sutha', 26, 'female', 'coimbatore', 'sneezing', 'positive', 'yes', '14/06/2022', '18/09/2022')
Do You Want To Continue Press Yes: & "C:/Users/Victory OF Jesus/AppData/Local/Programs/Python/Python311/python.exe" "f:/python/class 1/covid project/main_details.py"
Response recorded successfully.
PS F:\python\class 1> & "C:/Users/Victory OF Jesus/AppData/Local/Programs/Python/Python311/python.exe" "f:/python/class 1/covid project/covid_details.py"
***** Welcome to COVID-19 Data Maintenance Survey Software *****
1-> COVID 19 DETAILS
2-> VIEW COVID 19 DETAILS
3-> UPDATE COVID 19 DETAILS
4-> DELETE COVID 19 DETAILS
Enter Your Number: 4
which column you want to delete:patient_name
which data you want to delete in patient_name column: sutha
*****Deleted Successfully*****
Do You Want To Continue Press Yes: yes
***** Welcome to COVID-19 Data Maintenance Survey Software *****
1-> COVID 19 DETAILS
2-> VIEW COVID 19 DETAILS
3-> UPDATE COVID 19 DETAILS
4-> DELETE COVID 19 DETAILS
Enter Your Number: 1
Enter Your Name: sutha
Enter Your Age: 26
Enter Your Gender: female
Enter Your Location:ooty
List any symptoms (comma-separated): fever
Enter your test result (positive/negative): positive
Are you vaccinated? (yes/no): no
Patient sutha details have been uploaded... !
Do You Want To Continue Press Yes:
```

OUTPUT IN DATABASE:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: appointment_details new_students appointment_details covid19_details covid19_details x SQLAddito

SCHEMAS

Filter objects

covid19_db

Tables

Views

Stored Procedures

Functions

hospital_db

sakila

seps_db

sys

world

Limit to 1000 rows

1 • SELECT * FROM covid19_db.covid19_details;

Result Grid

id	patient_name	patient_age	gender	location	symptoms	test_result	vaccination_status	first_dosage_status	second_dosage_status
1	Abi	23	female	Tuty	fever	positive	yes	15/09/2019	21/01/2020
2	selvam	45	male	chennai	cough	negative	yes	12/01/2020	15/04/2020
3	prase	17	female	Tirunelveli	vomit,cough	positive	yes	13/01/2021	23/04/2021
4	john	21	male	trichy	fever,cold	negative	no	22/02/2022	30/05/2022
5	priya	20	female	nagercoil	cough	positive	yes	01/06/2022	13/09/2022
6	Ricky	19	male	Bihar	fever,cough	positive	yes		
7	sharon	20	female	nagercoil	fever	negative	no		
8	Dera	25	female	Nagercoil	fever,vomit	negative	no		
9	shalom	17	male	ooty	vomit,fever	positive	yes		
11	sutha	26	female	ooty	fever	positive	no		

Administration Schemas

Information

Table: covid19_details

Columns:

- id
- patient_name
- patient_age
- gender
- location
- symptoms
- test_result
- vaccination_status
- first_dosage_status
- second_dosage_status

Output

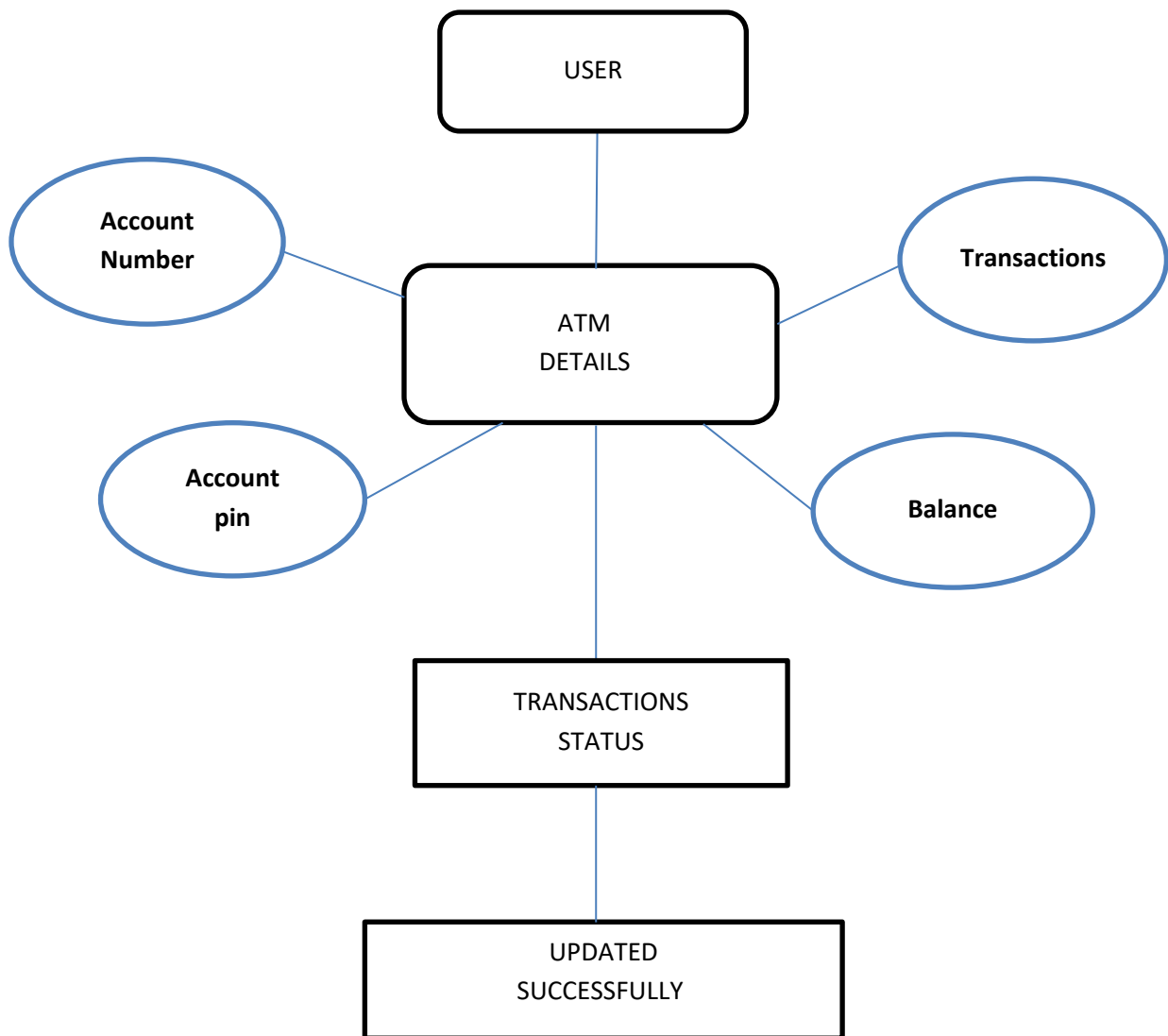
Action Output

#	Time	Action	Message
3	18:53:13	SELECT * FROM hospital_db.appointment_details LIMIT 0, 1000	8 row(s) returned
4	18:53:13	new_students.appointment_details	Error Code: 1064. You have an error in your SQL syntax; check the ma
5	18:54:41	SELECT * FROM covid19_db.covid19_details LIMIT 0, 1000	10 row(s) returned
6	18:54:41	SELECT * FROM covid19_db.covid19_details LIMIT 0, 1000	10 row(s) returned

Apply Revert Context Hel

PROJECT →2

ATM MACHINE CONCEPT USING DATABASE:



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)
    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)
    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 *** ")

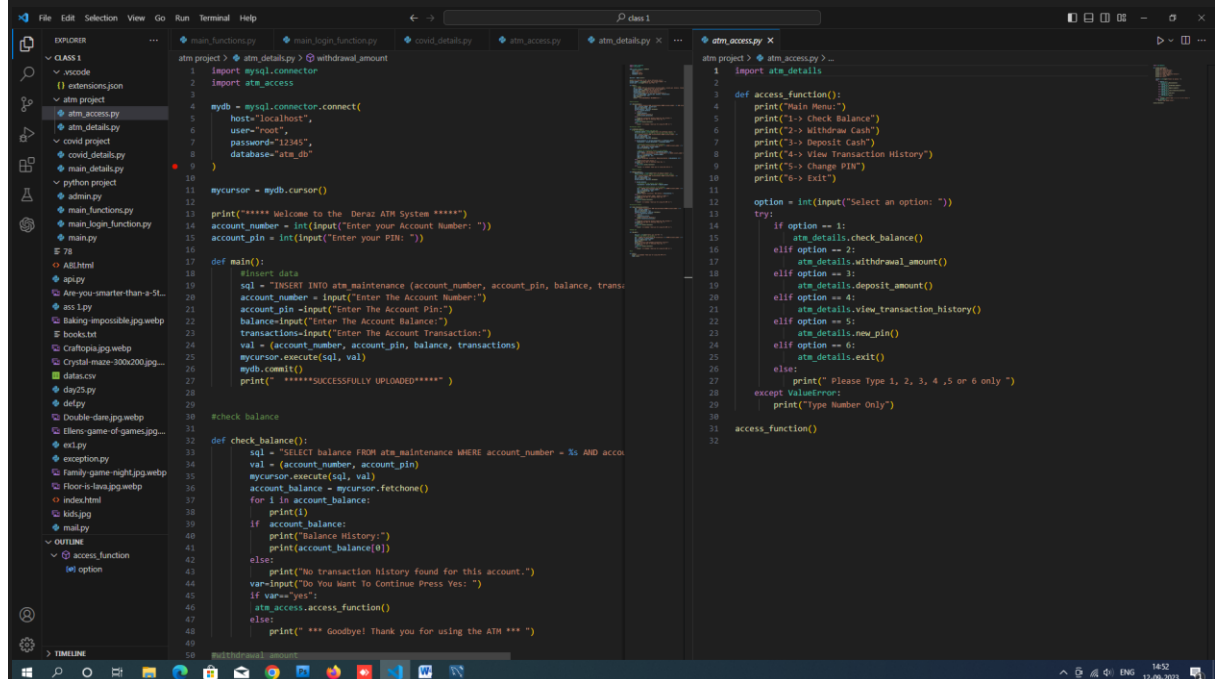
#exit
def exit():
    print(" *** Goodbye! Thank you for using the ATM ***")
    mydb.close()

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()

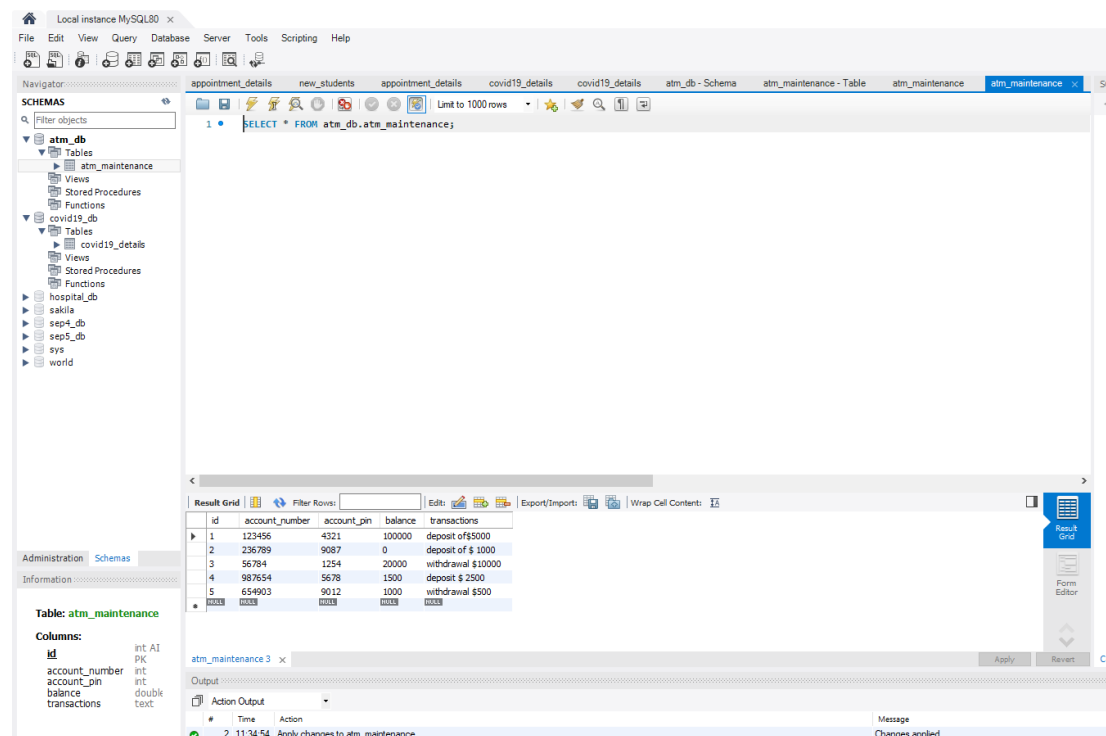
```

OVERVIEW:



```
1 import mysql.connector
2 import atm_access
3
4 mydb = mysql.connector.connect(
5     host="localhost",
6     user="root",
7     password="12345",
8     database="atm_db"
9 )
10
11 mycursor = mydb.cursor()
12
13 print("***** Welcome to the Deraiz ATM System *****")
14 account_number = int(input("Enter your Account Number: "))
15 account_pin = int(input("Enter your PIN: "))
16
17 def main():
18     #insert data
19     sql = "INSERT INTO atm_maintenance (account_number, account_pin, balance, trans"
20     account_number = input("Enter The Account Number:")
21     account_pin = input("Enter The Account Pin:")
22     balance = input("Enter The Account Balance:")
23     transaction = input("Enter The Account Transaction:")
24     val = (account_number, account_pin, balance, transaction)
25     mycursor.execute(sql, val)
26     mydb.commit()
27     print(" *****SUCCESSFULLY UPLOADED***** ")
28
29 #check balance
30
31 def check_balance():
32     sql = "SELECT balance FROM atm_maintenance WHERE account_number = %s AND accou"
33     val = (account_number, account_pin)
34     mycursor.execute(sql, val)
35     account_balance = mycursor.fetchone()
36     for i in account_balance:
37         print(i)
38     if account_balance:
39         print("Balance History:")
40         print(account_balance[0])
41     else:
42         print("No transaction history found for this account.")
43     var = input("Do You Want To Continue Press Yes: ")
44     if var == "yes":
45         atm_access.access_function()
46     else:
47         print(" *** Goodbye! Thank you for using the ATM *** ")
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```

OUTPUT IN DATABASE :



Local instance MySQL80

Navigator: appointment_details, new_students, appointment_details, covid19_details, covid19_details, atm_db - Schema, atm_maintenance - Table, atm_maintenance

SCHEMAS

Filter objects

atm_db

Tables

atm_maintenance

Views

Stored Procedures

Functions

covid19_db

Tables

covid19_details

Views

Stored Procedures

Functions

hospital_db

sakila

sep4_db

sep5_db

sys

world

Administration Schemas

Information

Table: atm_maintenance

Columns:

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

Result Grid

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

atm_maintenance 3 x

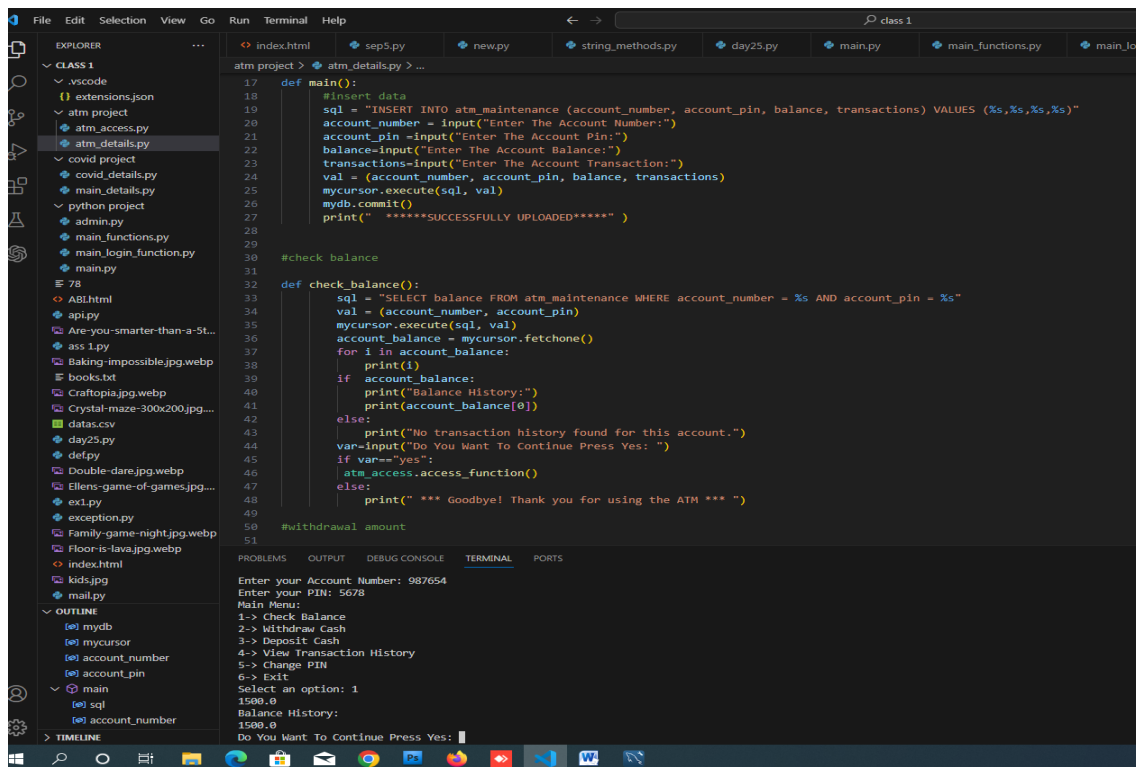
Output

Action Output

Time Action Message

2 11:34:54 Apply changes to atm_maintenance Changes applied

Output:FOR CHECK BALANCE

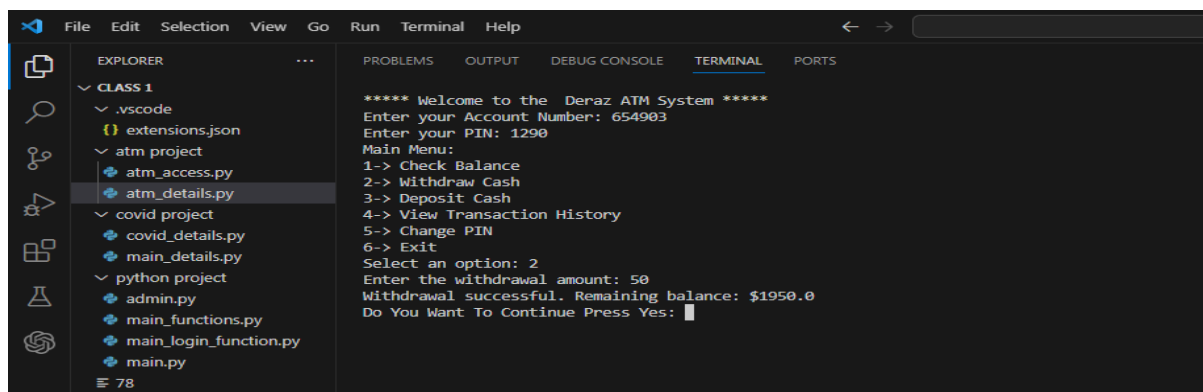


The screenshot shows the VS Code editor with a Python project named 'atm_details.py'. The code includes a main function that prompts the user for account number and PIN, and a check_balance function that queries a database for the account balance. The terminal output shows the program running successfully, displaying the account balance of 1500.0.

```
17 def main():
18     #insert data
19     sql = "INSERT INTO atm_maintenance (account_number, account_pin, balance, transactions) VALUES (%s,%s,%s,%s)"
20     account_number = input("Enter The Account Number:")
21     account_pin = input("Enter The Account Pin:")
22     balance = input("Enter The Account Balance:")
23     transactions = input("Enter The Account Transaction:")
24     val = (account_number, account_pin, balance, transactions)
25     mycursor.execute(sql, val)
26     mydb.commit()
27     print(" *****SUCCESSFULLY UPLOADED***** ")
28
29
30 #check balance
31
32 def check_balance():
33     sql = "SELECT balance FROM atm_maintenance WHERE account_number = %s AND account_pin = %s"
34     val = (account_number, account_pin)
35     mycursor.execute(sql, val)
36     account_balance = mycursor.fetchone()
37     for i in account_balance:
38         print(i)
39     if account_balance:
40         print("Balance History:")
41         print(account_balance[0])
42     else:
43         print("No transaction history found for this account.")
44     var = input("Do You Want To Continue Press Yes: ")
45     if var == "yes":
46         atm_access.access_function()
47     else:
48         print(" *** Goodbye! Thank you for using the ATM *** ")
49
50 #withdrawal amount
51
```

Enter your Account Number: 987654
Enter your PIN: 5678
Main Menu:
1-> Check Balance
2-> Withdraw Cash
3-> Deposit Cash
4-> View Transaction History
5-> Change PIN
6-> Exit
Select an option: 1
1500.0
Balance History:
1500.0
Do You Want To Continue Press Yes:

OUTPUT: FOR WITHDRAWAL BALANCE



The screenshot shows the VS Code editor with the 'atm_details.py' file selected. The terminal output shows the program running successfully, displaying the account balance of 1500.0.

```
***** Welcome to the Deraz ATM System *****
Enter your Account Number: 654903
Enter your PIN: 1290
Main Menu:
1-> Check Balance
2-> Withdraw Cash
3-> Deposit Cash
4-> View Transaction History
5-> Change PIN
6-> Exit
Select an option: 2
Enter the withdrawal amount: 50
Withdrawal successful. Remaining balance: $1950.0
Do You Want To Continue Press Yes: 
```

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

```
456' at line 1
PS F:\python\class 1> & "C:/Users/Victory Of Jesus/AppData/Local/Programs/Python/Python311/python.exe" "f:/python/class 1/atm project/atm_details.py"
**** Welcome to the Deraz ATM System ****
Enter your Account Number: 987654
Enter your PIN: 5678
Main Menu:
1-> Check Balance
2-> Withdraw Cash
3-> Deposit Cash
4-> View Transaction History
5-> Change PIN
6-> Exit
Select an option: 3
Enter the deposit amount: 25600
Deposit successful. New balance: $27100.0
Do You Want To Continue Press Yes: yes
Main Menu:
1-> Check Balance
2-> Withdraw Cash
3-> Deposit Cash
4-> View Transaction History
5-> Change PIN
6-> Exit
Select an option: 4
deposit $ 2500
Transaction History:
deposit $ 2500
Do You Want To Continue Press Yes: yes
Main Menu:
1-> Check Balance
2-> Withdraw Cash
3-> Deposit Cash
4-> View Transaction History
5-> Change PIN
6-> Exit
Select an option: 5
Enter your new PIN: 8765
***** PIN changed successfully *****
Do You Want To Continue Press Yes: yes
Main Menu:
1-> Check Balance
2-> Withdraw Cash
3-> Deposit Cash
4-> View Transaction History
5-> Change PIN
6-> Exit
Select an option: 6
*** Goodbye! Thank you for using the ATM ***
**** Welcome to the Deraz ATM System ****
Enter your Account Number: 
```