Bank Management

NEHA SHANTAGIRI

Acknowledgements

We express our sincere thanks to our institution Sri Chaitanya Techno School, for providing the necessary facilities which were required for the completion of this project.

We would like to express a deep sense of thanks and gratitude to our teacher and guide, Mrs. Neeharika, for guiding and correcting us through the course of building the project. She always expressed a keen interest in our work. Her constructive advice and constant motivation has been our inspiration for the successful completion of the project.

We also thank our parents and friends for their help, support and constant motivation.

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About The Project

DecixBMS is a simple bank management system written in Python and MySQL. Our aim was to develop software catering to the financial applications of a customer in a banking environment.

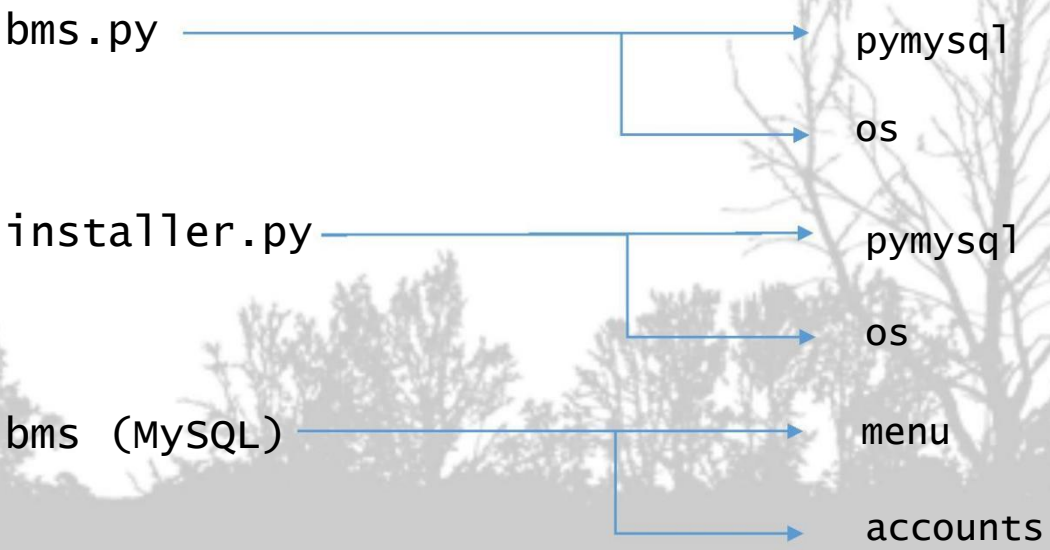
It provides various ways to perform banking tasks, and hence DecixBMS was created. DecixBMS, undertaken as a project is based on relevant technologies. The main aim of this project is to develop software for the management of a bank.

This project has been developed to carry out processes easily and quickly, which is not possible with the manual system, which was surpassed by this software.

This project has been developed using Python 3.7.5 and MySQL 5.1, on Windows 10 release 19041.1, and is tested to be compatible with the same.

We have also bundled an installer script written in Python to automate the creation of the required database and tables, and insert the necessary values in the tables for the program to work.

Files, Libraries and Databases



MySQL Configuration

menu

sno	integer
actions	varchar(40)

accounts

sno	integer
AccName	varchar(40)
AccType	char(1)
amount	integer

Source Code

- bms.py

```
import pymysql as p
import os

def intro():
    clrscr()
    print("\t\t+-------------------------------+")
    print("\t\t|    Bank Management System     |")
    print("\t\t+-------------------------------+")
    print("\t\t|  The tool you can bank upon! |")
    print("\t\t+-------------------------------+")
    input()

def NewAccount():
    sno = input('Enter the new account number :')
    name= input('Enter the new account name   :')
    Type= input('Enter account type [C/S]     :')
    amt = input('Enter initial amount         :')
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()
    q1 = 'insert into accounts
values('+str(sno)+','+str(name)+','+str(Type)+','+str(amt)+');'
    a.execute(q1)
    c.commit()
    print('New account created successfully, press any key to continue...')


def clrscr():
        if os.name=="nt":
                u = os.system("cls")
        else:
                u = os.system("clear")


def modifyAccount(num):
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()

    sno = input('Enter the account number            : ')
```

```
    name = input('Enter the name of the account holder: ')
    acctype = input('Enter type of account (C/S)         : ')
    q1 = 'update accounts set AccName = '+str(name)+' where sno = '+str(sno)
    q2 = 'update accounts set AccType = '+str(acctype)+' where sno = '+str(sno)
    a.execute(q1)
    a.execute(q2)
    c.commit()
    print('Account updated successfully. Press any key to continue.')


def deposit(num):
    print('Deposit to Account Number: ',num)
    amount = input ('Enter the amount to deposit:')
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()
    q1 = 'update accounts set amount=amount+'+str(amount)+' where sno='+str(num)+';'
    a.execute(q1)
    c.commit()
    print('Deposited the required amount successfully. Press any key to continue.')


def withdraw(num):
    print('Withdraw to Account Number: ',str(num))
    amount = input ('Enter amount to withdraw: ')
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()
    q1 = 'update accounts set amount=amount-'+str(amount)+' where sno='+str(num)+';'
    a.execute(q1)
    c.commit()
    print('Withdrew the required amount successfully, press any key to continue.')


def balanceEnquiry(num):
    print('Balance (Account Number: '+str(num)+')')
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()
    q = 'select amount from accounts where sno='+str(num)+';'
    a.execute(q)
    d = a.fetchall()
    print('==========================')
    for i in d:
        for j in i:
            print ('Balance in INR:',j,end='\t')
```

```
        print()


def deleteAccount(num):
    x = input('DELETING ACCOUNT FOR S/N '+str(num)+'DO YOU WANT TO CONTINUE? CHANGES
ARE IRREVERSIBLE! (Y/N):')
    if x == 'Y':
        c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
        a = c.cursor()
        a.execute('delete from accounts where sno='+str(num)+';')
        c.commit()
        print('Deleted account successfully, press any key to continue')
    else:
        print('Wrong option, try again!')


def displayAll():
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()
    a.execute('select * from accounts;')
    d = a.fetchall()
    print ('List of All Account Holders')
    print ('============================')
    print ('AccountNo\tAccountHolder\t\tType\t\tAmount')
    print ('=========\t=============\t\t====\t\t======')
    for i in d:
        for j in i:
            print (j,end='\t\t')
        print()


ch=''
num=0
intro()


while ch != 8:
    clrscr()
    print('=====================')
    print('Decix Bank Management')
    print('=====================')
    c = p.connect
(host='localhost',user='root',password='Gaganmalvi@123',database='bms')
    a = c.cursor()
```

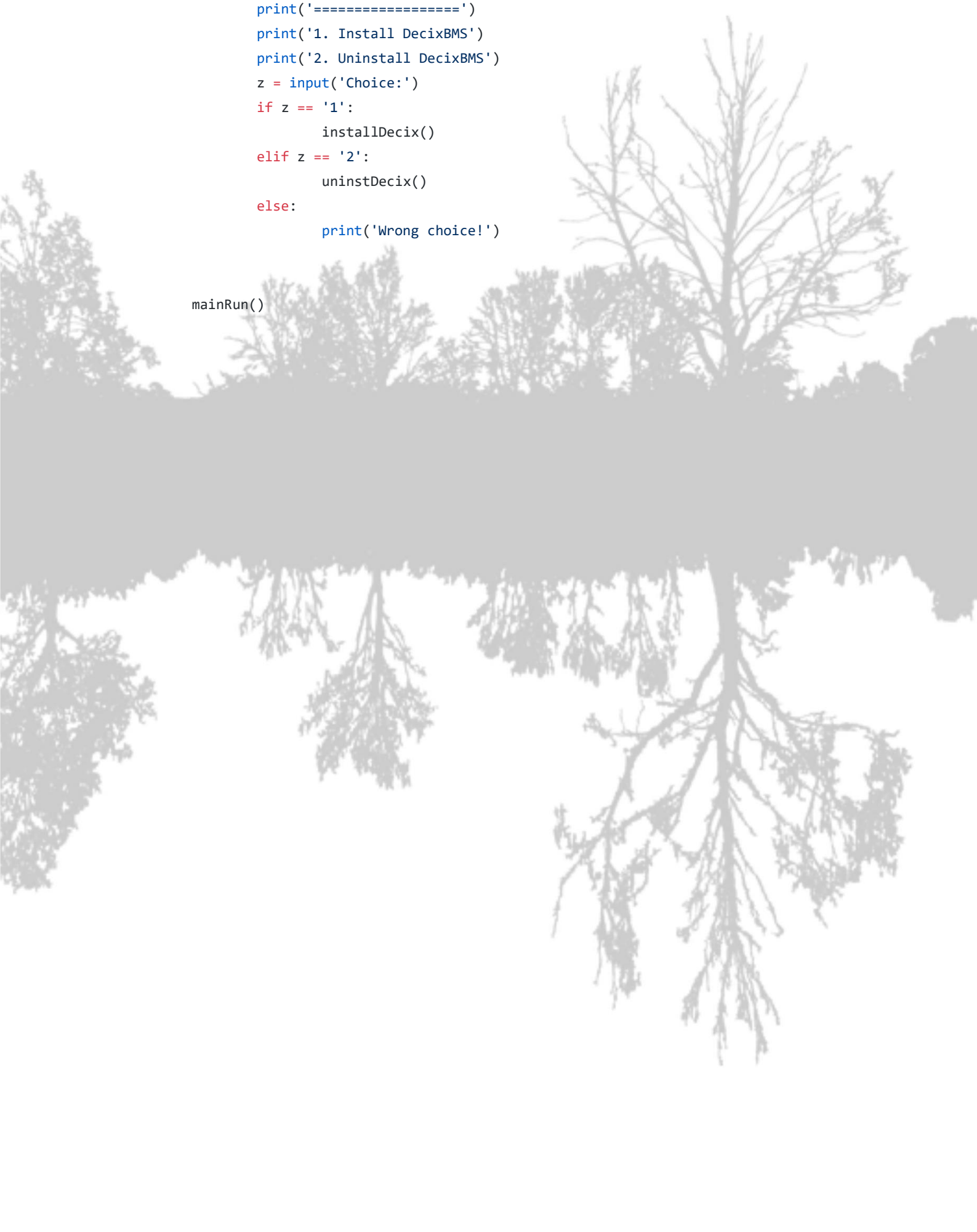
```
q = 'select * from menu'
a.execute(q)
d = a.fetchall()
print ('Option\tAction')
for i in d:
    for j in i:
        print (j,end='\t')
    print()


print("Select Your Option (1-8) ")
ch = input()


if ch == '1':
     clrscr()
     NewAccount()
elif ch =='2':
     clrscr()
     num = int(input("Enter The account No. : "))
     deposit(num)
elif ch == '3':
     clrscr()
     num = int(input("Enter The account No. : "))
     withdraw(num)
elif ch == '4':
     clrscr()
     num = int(input("Enter The account No. : "))
     balanceEnquiry(num)
elif ch == '5':
     clrscr()
     displayAll()
elif ch == '6':
     clrscr()
     num =int(input("Enter The account No. : "))
     deleteAccount(num)
elif ch == '7':
     clrscr()
     modifyAccount(num)
elif ch == '8':
     clrscr()
     print("\t+----------------------------+")
     print("\t|Thank you for using DecixBMS!|")
     print("\t+----------------------------+")
     break
else :
```

```
        print("Invalid choice")
    ch = input()
```

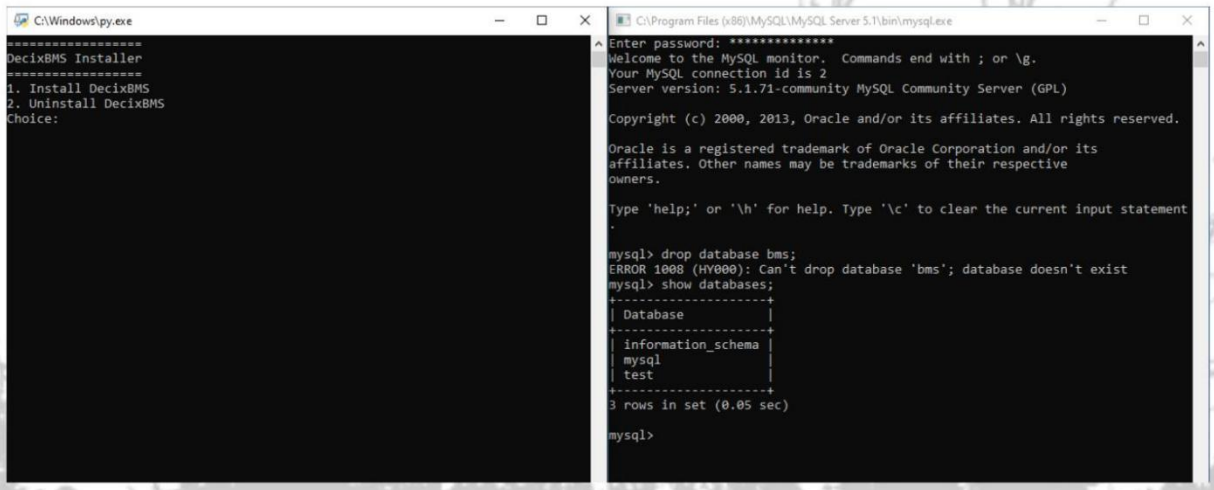
- installer.py

```
import os
import pymysql as p
'''
DecixBMS Installer
Change the password to your MySQL passwd
'''
c = p.connect(host = 'localhost', user = 'root', password = 'Gaganmalvi@123')
a = c.cursor()
def clrscr():
        if os.name=="nt":
                u = os.system("cls")
        else:
                u = os.system("clear")
def installDecix():
        a.execute('create database bms;')
        a.execute('use bms;')
        a.execute('create table menu (sno integer,actions varchar(40));')
        a.execute('create table accounts(sno integer, AccName varchar(20),
AccType char(1), amount integer);')
        a.execute('insert into menu values(1,"New Account");')
        a.execute('insert into menu values(2,"Deposit Money");')
        a.execute('insert into menu values(3,"Withdrawal of Money");')
        a.execute('insert into menu values(4,"Balance Enquiry");')
        a.execute('insert into menu values(5,"Account Holders List");')
        a.execute('insert into menu values(6,"Closure of Account");')
        a.execute('insert into menu values(7,"Modify Account");')
        a.execute('insert into menu values(8,"Exit BMS");')
        c.commit()
        print('Installed successfully!')


def uninstDecix():
        a.execute('drop database bms;')
        c.commit()
        print('Uninstalled!')
def mainRun():
        print('==================')
```

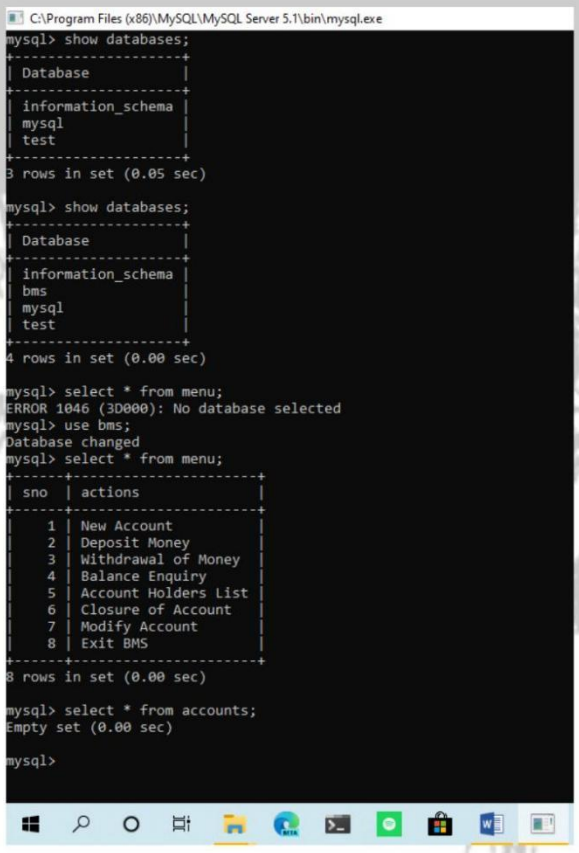
```
        print('DecixBMS Installer')
        print('==================')
        print('1. Install DecixBMS')
        print('2. Uninstall DecixBMS')
        z = input('Choice:')
        if z == '1':
                installDecix()
        elif z == '2':
                uninstDecix()
        else:
                print('Wrong choice!')


mainRun()
```



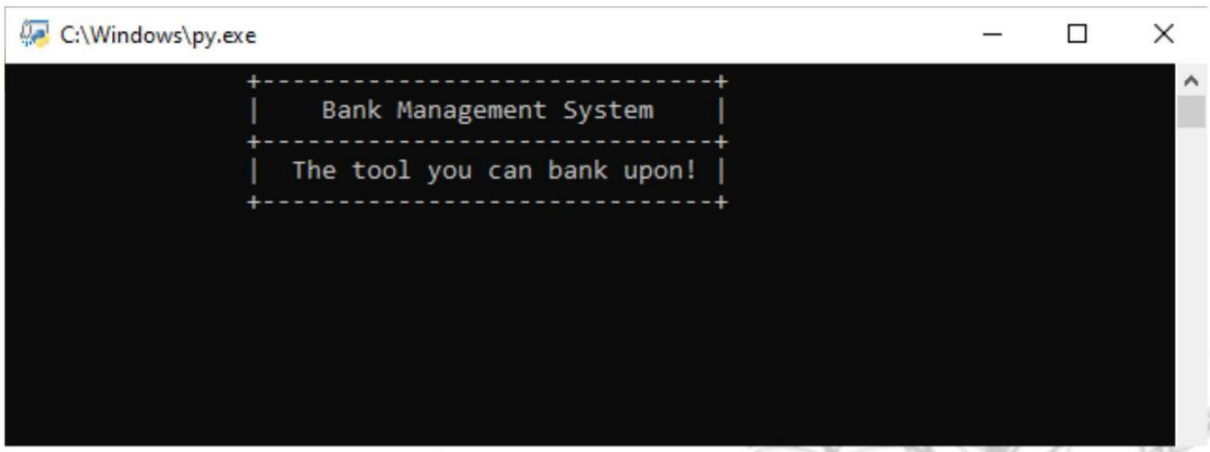
Screenshots



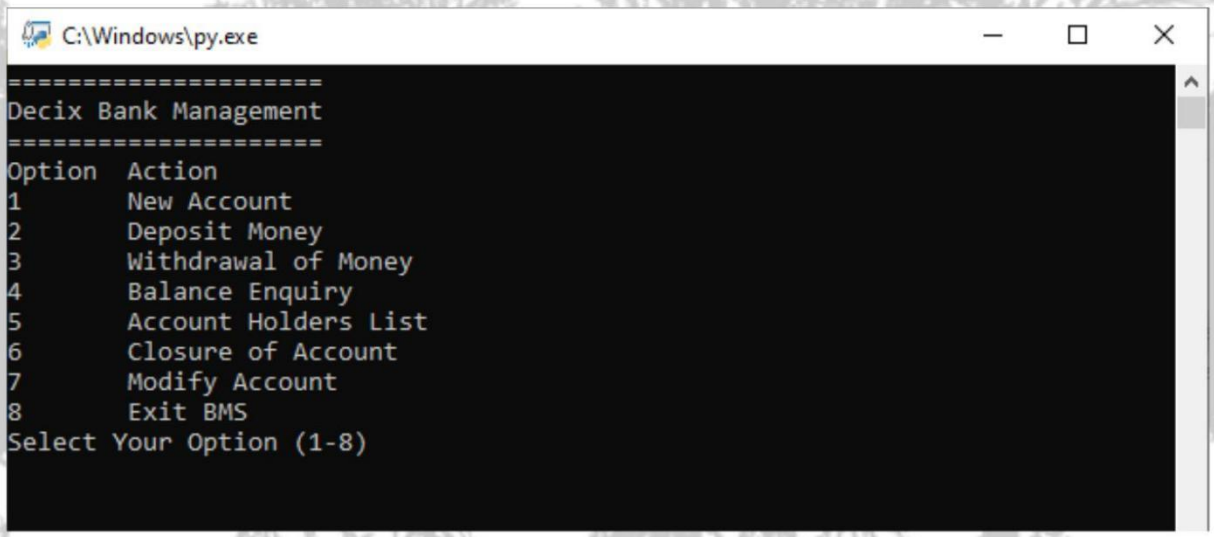
Pre-installation



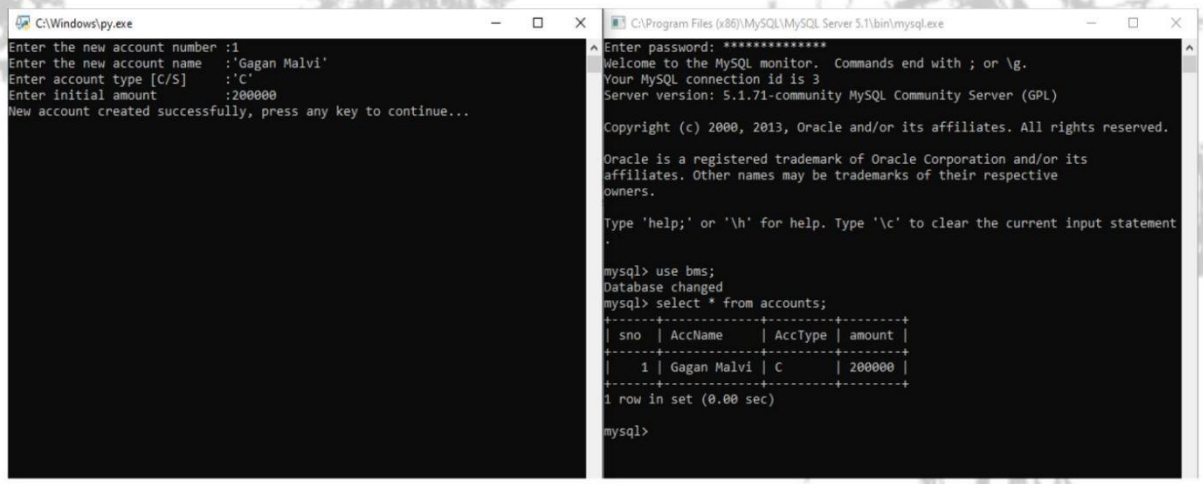
Post Installation



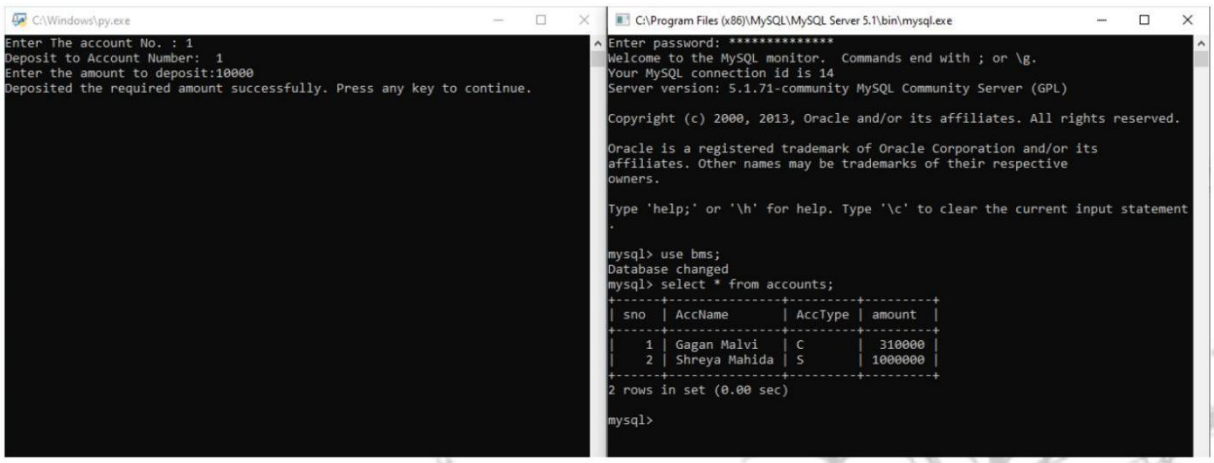
Splash



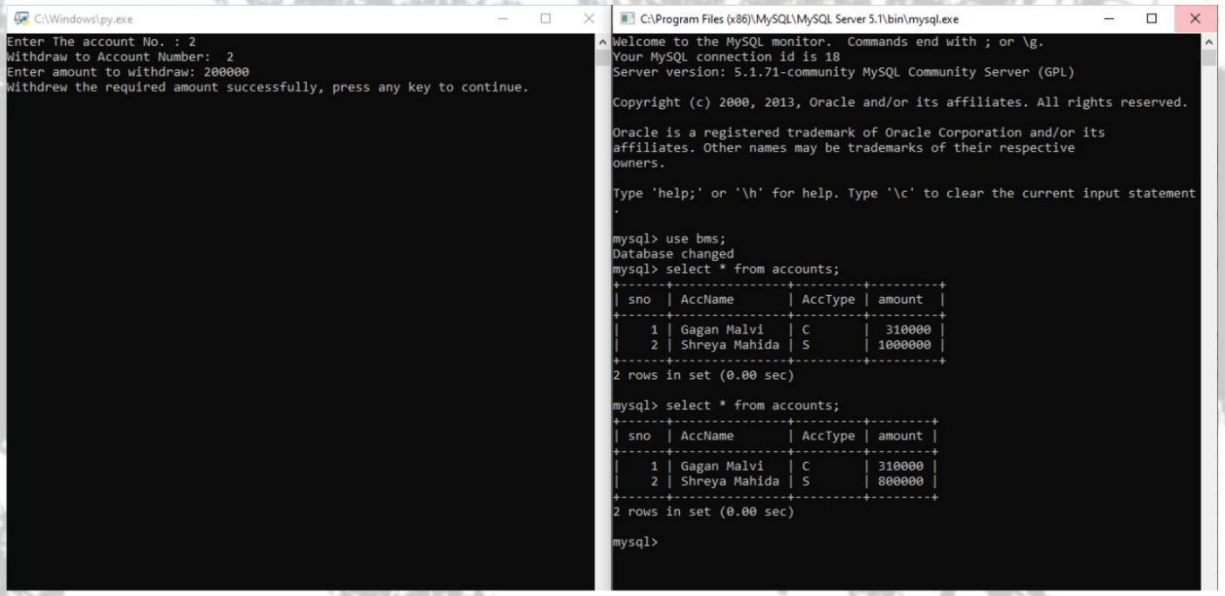
Menu



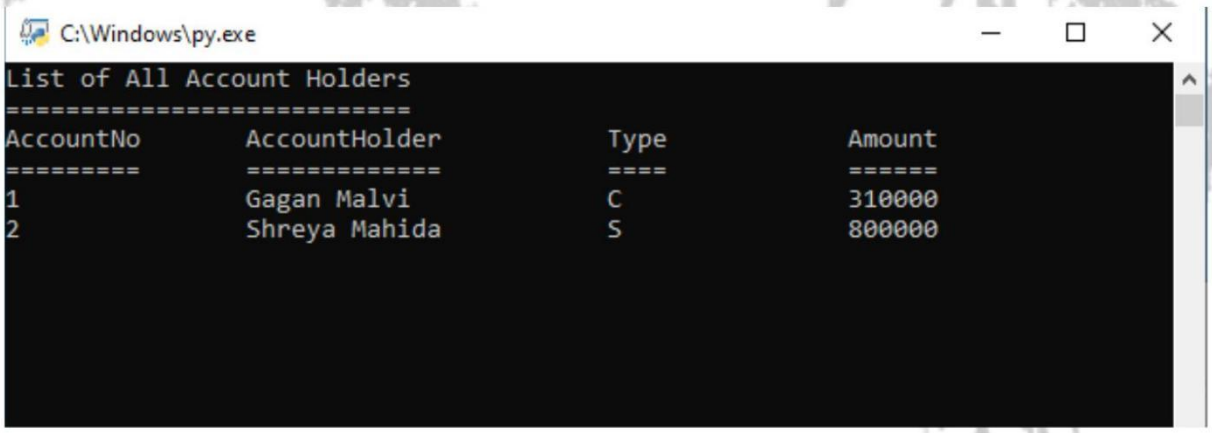
Create a New Account



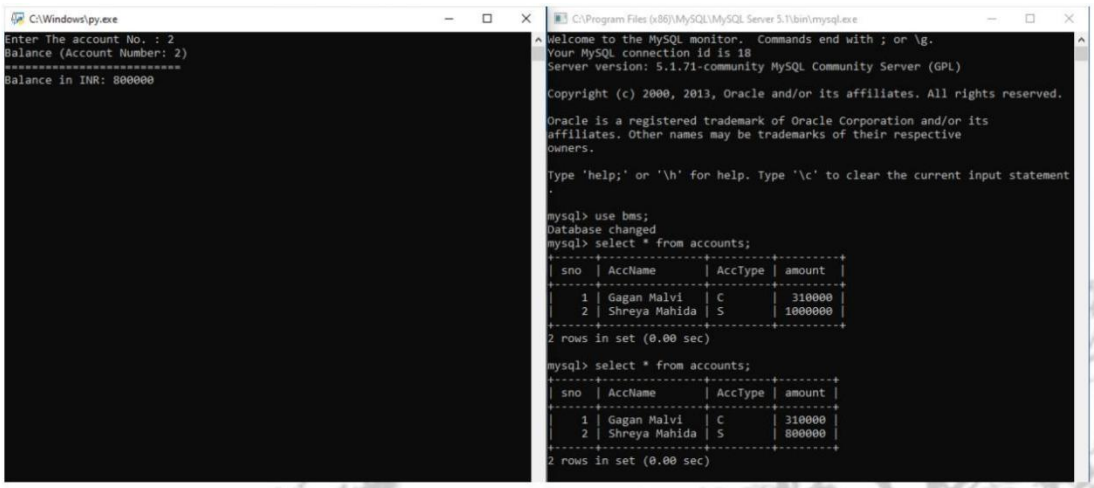
Deposit Money



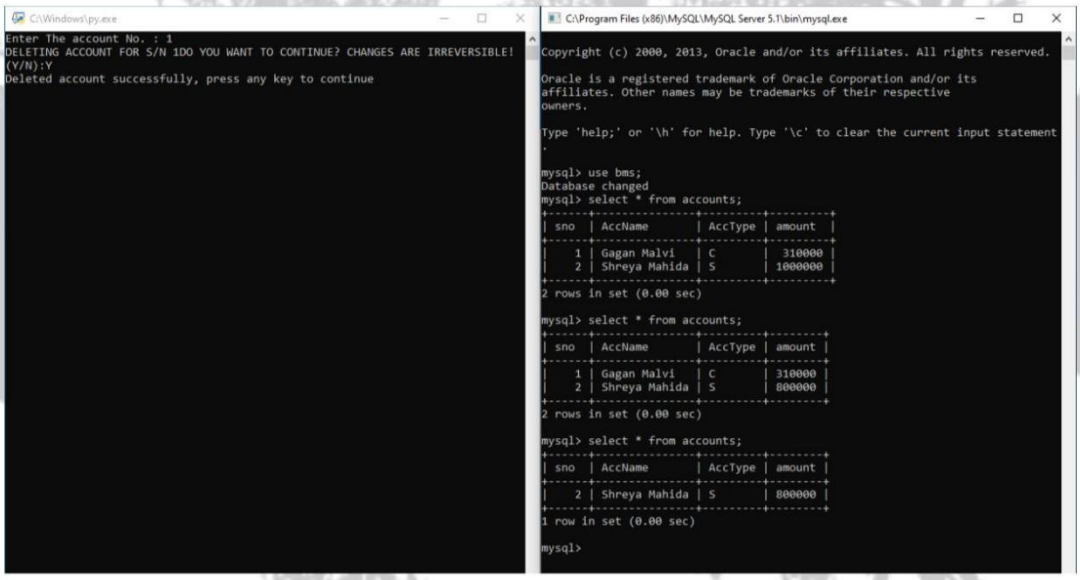
Withdraw Money



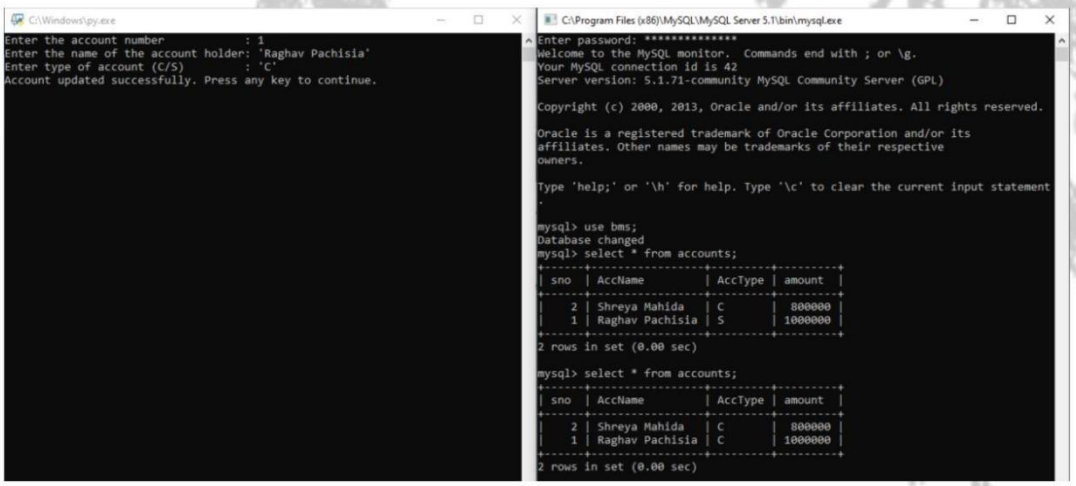
List All Account Holders



Balance Enquiry



Delete Account



Modify Account

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IP Manual

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