

BankAccountManagement

October 31, 2024

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[20]: #Add user-id and password to file
class AddUser:
    def __init__(self):
        self.UsernamePassword=self.LoadCredentials()

    def LoadCredentials(self):
        credentials={}
        try:
            with open("User Credentials.txt") as data:
                for line in data:
                    Username,Password=line.strip().split(":")
                    credentials[Username]=Password
        except FileNotFoundError:
            pass
        return credentials

    def Add_Username(self):
        Username=input("Enter a user name for login:")
        Password=input("Enter a password (do not share this with anyone):")
        if Username not in self.UsernamePassword:
            self.UsernamePassword[Username]=Password
            print("User added successfully")
        else:
            print("This user name already exist!! Please select another one")
            self.StoreCredentials()
    def StoreCredentials(self):
        with open("User Credentials.txt","w") as data:
            for Username, Password in self.UsernamePassword.items():
                data.write(f"{Username}:{Password}\n")

User1=AddUser()
User1.Add_Username()
User1.StoreCredentials()
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Enter a user name for login: Jitha

Enter a password (do not share this with anyone): 360

User added successfully

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[29]: #Depositing and withdrawing
class BankAccount:
    def __init__(self,account_holder):
        self.account_holder=account_holder
        self.balance=0
        self.accountNumber=0
        self.pin=0
        self.credentials=self.LoadCredentials()
    def LoadCredentials(self):
        credentials={}
        try:
            with open("User Credentials.txt") as data:
                for line in data:
                    Username,Password=line.strip().split(":")
                    credentials[Username]=Password
        except FileNotFoundError:
            pass
        return credentials

    def deposit_amount(self):
        Username=input("Enter your username")
        Password=input("Enter your password")
        if Username in self.credentials:
            if self.credentials[Username]==Password:
                amount=int(input("Enter the amount to deposit:"))
                if amount<0:
                    print("The amount should be positive")
                elif amount>0:
                    self.balance=self.balance+amount
                    print(f"Successfully deposited {amount} new balance is:{self.
↵balance}")
            else:
                print("Incorrect password")
        else:
            print("Bad credentials")
    def withdraw_amount(self):
        Username=input("Enter your username")
        Password=input("Enter your password")
        if Username in self.credentials:
            if self.credentials[Username]==Password:
                amount=int(input("Enter the amount to withdraw:"))
                if 0<amount<self.balance:
                    self.balance=self.balance-amount
                    print(f"Withdrawing {amount} from account")
                elif amount>self.balance:
                    print("The amount is insufficient. You cannot withdraw")
                elif amount<0:
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        print("The amount should be positive")
    else:
        print("Incorrect password")
    else:
        print("User does not exist")

    def get_balance(self):
        print(f"Balance amount is {self.balance}")
Account1=BankAccount("Shani")
print(f"Account holder name is: {Account1.account_holder}")
Account1.deposit_amount()
Account1.withdraw_amount()
Account1.get_balance()

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Account holder name is: Shani

Enter your username shani

Enter your password 456

Enter the amount to deposit: 10000

Successfully deposited 10000 new balance is:10000

Enter your username shani

Enter your password 456

Enter the amount to withdraw: 1000

Withdrawing 1000 from account

Balance amount is 9000

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