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TOPIC - BANK MANAGEMENT SYSTEM

1.BRIEF OVERVIEW OF PROJECT :-

This is a project based on bank management. The program helps us to enter, display or alter the details of different accounts in the bank. Moreover and most importantly the program helps us to deposit money in the account or close the account from the bank. The program also helps us to know all the details of customers of the Bank. It includes various function programs to do the above mentioned tasks. Data file handling has been effectively used in the program. Database is a collection of interrelated data to serve multiple applications, i.e. database programs create files of information. So we see that files are worked with most inside the program itself.

DBMS :-

The software required for management of data is called DBMS. It has three models

- Relation model: It stores information in the form of rows(cardinality) and columns(degree).
- Hierarchical model: In this type of model, we have multiple records inside a single record.
- Network model: In this , the data is represented by collections of records and relationships are represented by associations.

CHARACTERISTICS OF DBMS :-

- It reduces the redundancy
- Data sharing
- Data standardization
- Reduction of data in inconsistency

TYPES OF FILES BASED ON ACCESS :-

- Sequential file
- Serial file
- Random file
- Text file
- Binary file

2.NEED FOR COMPUTERIZATION :-

The profile of Indian Banking has undergone a metamorphosis in the post nationalisation era. The change is characterised by radical transformation in its role, scope and extent of business operations and the industry has grown dramatically in size as well as complexity of operations. The banks in India have also emerged as an effective catalytic agent of socio-economic change. This massive expansion and diversification of the banking system also brought its attendant strains. Housekeeping and control functions got neglected owing to exponential increase in business. The customer service tended to deteriorate and attracted criticism. Bottlenecks developed in the flow of information compromising control and monitoring on the one hand and MIS based policy formulation on the other. This massive growth in network of branches and volume of business was achieved mostly by enlarging manpower resources. Then, this industry entered into a phase with assent on consolidation and qualitative improvement on its operations by using suitable contemporary technological tools.



3.SOFTWARE AND HARDWARE REQUIREMENT :-

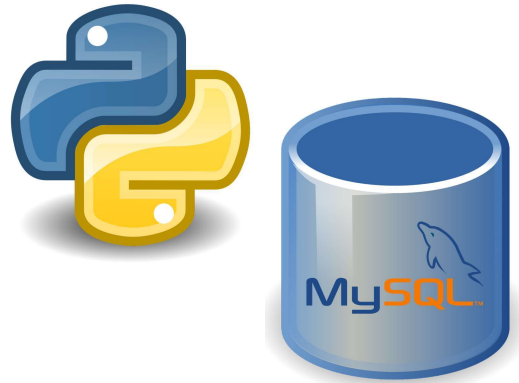
Software Specification: -

Operating system: Windows 10/8/7

Platform : Python IDLE 3.8

Database : MySQL

Languages : Python



Hardware specification: -

Processor: Dual core or above

Hard Disk: 40 GB

Ram : 1024MB

4.ADVANTAGES OF PROJECT :-

In order to meet competition, avoid obsolescence, and seize opportunities .A bank must be able to:

- Respond rapidly to new or changing information needs.
- Maintaining the past data to ensure the satisfaction of the customer.
- Reduce error
- Provide better protection
- Make work easier
- Reduce manual labour

5.SOURCE CODE IN PYTHON :-

```
# importing modules
import mysql.connector

#creating database
mydb=mysql.connector.connect (host="localhost",user="root",
passwd="Rohit@07")
mycursor=mydb.cursor()
mycursor.execute("create database if not exists bank")
mycursor.execute("use bank")

#creating required tables
mycursor.execute("create table if not exists bank_master(acno char(4) primary
key,name varchar(30),dob date,occu char(10),address varchar(200),mobilen
o char(10),adhar_no char(12),balance int(6))")
mycursor.execute("create table if not exists banktrans(acno char (4),amount
int(6),dot date,ttype char(1),foreign key (acno) references bank_master(acno))")
mydb.commit()

while(True):
    print("\nMenu
1 --> Create account
2 --> Deposit money
3 --> Withdraw money
4 --> Display account
5 --> Close Account
6 --> Exit")
    ch=int(input("Enter your choice:"))

#PROCEDURE FOR CREATING A NEW ACCOUNT OF THE APPLICANT
if(ch==1):
    print("All information prompted are mandatory to be filled")
    acno=str(input("Enter account number:"))
    name=input("Enter name(limit 35 characters):")
    dob=str(input("Enter date of birth(YYYY-MM-DD): "))
    occu=input("Enter occupation:")
    address=str(input("Enter address:"))
    mobilen= str(input("Enter mobile no.:"))
    adhar_no=str(input('Enter the Aadhar number : '))
    balance=0
    mycursor.execute("insert into bank_master
values('"+acno+"','"+name+"','"+dob+"','"+occu+"','"+address+"','"+mobilen
o+"','"+adhar_no+"','"+str(balance)+"')")
    mydb.commit()
```

```

print("Account is successfully created!!!\n")

#PROCEDURE FOR UPDATING DETAILS AFTER THE DEPOSITION OF
MONEY BY THE APPLICANT
elif(ch==2):
    acno=str(input("Enter account number:"))
    dp=int(input("Enter amount to be deposited:"))
    dot=str(input("Enter date of Transaction(YYYY-MM-DD): "))
    ttype="d"
    mycursor.execute("insert into banktrans
values('"+acno+"','"+str(dp)+"','"+dot+"','"+ttype+"')")
    mycursor.execute("update bank_master set balance=balance+'"+str(dp)+"'
where acno='"+acno+"'")
    mydb.commit()
    print("money has been deposited successully!!!\n")

#PROCEDURE FOR UPDATING THE DETAILS OF ACCOUNT AFTER THE
WITHDRAWAL OF MONEY BY THE APPLICANT

elif(ch==3):
    acno=str(input("Enter account number:"))
    wd=int(input("Enter amount to be withdrawn:"))
    dot=str(input("enter date of transaction(YYYY-MM-DD): "))
    ttype="w"
    mycursor.execute("insert into banktrans
values('"+acno+"','"+str(wd)+"','"+dot+"','"+ttype+"')")
    mycursor.execute("update bank_master set balance=balance-'"+str(wd)+"'
where acno='"+acno+"'")
    mydb.commit()

#PROCEDURE FOR DISPLAYING THE ACCOUNT OF THE ACCOUNT HOLDER
AFTER HE/SHE ENTERS HIS/HER ACCOUNT NUMBER
elif(ch==4):
    acno=str(input("Enter account number:"))
    mycursor.execute("select * from bank_master where acno='"+acno+"'")
    for i in mycursor:
        print(i)

elif(ch==5):
    acno=str(input("Enter account number:"))
    mycursor.execute("Delete from banktrans where acno='"+acno+"'")
    mycursor.execute("Delete from bank_master where acno='"+acno+"'")
    print("Account has been closed")

elif(ch==6):
    print("Thank You for using\n")

```

break

else:

print("\nHy! That's Not A Number\n")

6.OUTPUT :-

Menu

- 1 --> Create account
- 2 --> Deposit money
- 3 --> Withdraw money
- 4 --> Display account
- 5 --> Close Account
- 6 --> Exit

Enter your choice:1

All information prompted are mandatory to be filled

Enter account number:2345

Enter name(limit 35 characters):Suraj

Enter date of birth(YYYY-MM-DD): 2005-05-07

Enter occupation:Stu

Enter address:AntopHill

Enter mobile no.:9876543219

Enter the Aadhar number : 123412341234

Account is successfully created!!!

Menu

- 1 --> Create account
- 2 --> Deposit money
- 3 --> Withdraw money
- 4 --> Display account
- 5 --> Close Account
- 6 --> Exit

Enter your choice:2

Enter account number:2345

Enter amount to be deposited:2000

Enter date of Transaction(YYYY-MM-DD): 2020-07-27

money has been deposited successully!!!

Menu

- 1 --> Create account
- 2 --> Deposit money
- 3 --> Withdraw money
- 4 --> Display account

5 --> Close Account
6 --> Exit
Enter your choice:3
Enter account number:2345
Enter amount to be withdrawn:100
enter date of transaction(YYYY-MM-DD): 2023-12-31

Menu

1 --> Create account
2 --> Deposit money
3 --> Withdraw money
4 --> Display account
5 --> Close Account
6 --> Exit
Enter your choice:4
Enter account number:2345
(('2345', 'Suraj', datetime.date(2005, 5, 7), 'Stu', 'AntopHill', '9876543219',
'123412341234', 1900))

Menu

1 --> Create account
2 --> Deposit money
3 --> Withdraw money
4 --> Display account
5 --> Close Account
6 --> Exit
Enter your choice:1
All information prompted are mandatory to be filled
Enter account number:6789
Enter name(limit 35 characters):Amit
Enter date of birth(YYYY-MM-DD): 1999-01-26
Enter occupation:GovtEmp
Enter address:Badlapur
Enter mobile no.:9873216549
Enter the Aadhar number : 987654321987
Account is successfully created!!!

Menu

1 --> Create account
2 --> Deposit money
3 --> Withdraw money
4 --> Display account
5 --> Close Account
6 --> Exit
Enter your choice:2

Enter account number:6789
Enter amount to be deposited:3000
Enter date of Transaction(YYYY-MM-DD): 2022-11-19
money has been deposited successully!!!

Menu

- 1 --> Create account
- 2 --> Deposit money
- 3 --> Withdraw money
- 4 --> Display account
- 5 --> Close Account
- 6 --> Exit

Enter your choice:6

Thank You for using

7.MYSQL TABLE :-

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 32
Server version: 8.0.32 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bank
Database changed
mysql> select * from bank_master;
+-----+-----+-----+-----+-----+-----+-----+-----+
| acno | name  | dob       | occu  | address | mobileno | adhar_no | balance |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 2345 | Suraj | 2005-05-07 | Stu   | AntopHill | 9876543219 | 123412341234 | 1900 |
| 6789 | Amit  | 1999-01-26 | GovtEmp | Badlapur | 9873216549 | 987654321987 | 3000 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from banktrans;
+-----+-----+-----+-----+
| acno | amount | dot       | ttype |
+-----+-----+-----+-----+
| 2345 | 2000   | 2020-07-27 | d     |
| 2345 | 100    | 2023-12-31 | w     |
| 6789 | 3000   | 2022-11-19 | d     |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```