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Simple User Interface for Front End

There were two reasons to choose python as the frontend choice.

1.   It is very easy to connect to a PostgreSql database. (read below)

b.Create the main window (container)

c.Add any number of widgets to the main window

d.Apply the event Trigger on the widgets.

Execution:

Viewing the patient details:


```
C:\Windows\System32\cmd.exe - python3  main.py                                                          —   □   ×

C:\Users\deepti\Downloads>python3 main.py
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 1


These are the following tables available for you to see
1 )  Patientsfillhistory
2 )  Medicalhistory
3 )  Patient
4 )  Patientsattendappointments
5 )  Appointment
6 )  Schedule
7 )  Diagnose
8 )  Doctor
9 )  Doctorviewshistory
10 )  Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 3


You are now viewing the patient table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(101, 'pa1@gmail.com', 'pa1', 'Patient1', 'Andhra Pradesh', 'Female')
(102, 'pa2@gmail.com', 'pa2', 'Patient2', 'ghsd', 'male')
(103, 'pa3@gmail.com', 'pa3', 'patient3', 'sdjfb', 'male')
(104, 'pa4@gmail.com', 'pa4', 'patient4', 'sdf', 'female')
(105, 'pa5@gmail.com', 'pa5', 'patient5', 'dfg', 'male')
(106, 'pa6@gmail.com', 'pa6', 'patient6', 'ddfs', 'female')
Welcome to the Hospital Database System
```

Activate Windows
Go to Settings to activate Windows.

Deleting records

```
C:\Windows\System32\cmd.exe - python3 main.py

(106, 'pa6@gmail.com', 'pa6', 'patient6', 'ddfs', 'female')
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 4


Which table would you want to delete the records from
1 )   Patientsfillhistory
2 )   Medicalhistory
3 )   Patient
4 )   Patientsattendappointments
5 )   Appointment
6 )   Schedule
7 )   Diagnose
8 )   Doctor
9 )   Doctorviewshistory
10 )   Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 3
You are now using the patient table.
Enter the id of the record you want to delete :   102
Record deleted successfully
Press any character to continue h
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 1
```

Inserting Records:

```
C:\Windows\System32\cmd.exe - python3 main.py

These are the following tables available for you to see
1 )   Patientsfillhistory
2 )   Medicalhistory
3 )   Patient
4 )   Patientsattendappointments
5 )   Appointment
6 )   Schedule
7 )   Diagnose
8 )   Doctor
9 )   Doctorviewshistory
10 )   Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 3


You are now viewing the patient table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(101, 'pa1@gmail.com', 'pa1', 'Patient1', 'Andhra Pradesh', 'Female')
(103, 'pa3@gmail.com', 'pa3', 'patient3', 'sdjfb', 'male')
(104, 'pa4@gmail.com', 'pa4', 'patient4', 'sdf', 'female')
(105, 'pa5@gmail.com', 'pa5', 'patient5', 'dfg', 'male')
(106, 'pa6@gmail.com', 'pa6', 'patient6', 'ddfs', 'female')
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 2


Which table would you want to insert data into
1 )   Patientsfillhistory
2 )   Medicalhistory
3 )   Patient
```

Which table would you want to insert data into
1) Patientsfillhistory
2) Medicalhistory
3) Patient
4) Patientsattendappointments
5) Appointment
6) Schedule
7) Diagnose
8) Doctor
9) Doctorviewshistory
10) Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 3

You are now using the patient table.
Input the values in tuple form : (1022, 'pa221@gmail.com', 'pa122', 'Patient1', 'Andhra Pradesh', 'Female')
Is the input correct? (y/n) y
Record added successfully..
Press any character to continue d
Welcome to the Hospital Database System

To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 1

These are the following tables available for you to see
1) Patientsfillhistory
2) Medicalhistory
3) Patient
4) Patientsattendappointments
5) Appointment
6) Schedule

Viewing Patients File History:

```
These are the following tables available for you to see
1 )   Patientsfillhistory
2 )   Medicalhistory
3 )   Patient
4 )   Patientsattendappointments
5 )   Appointment
6 )   Schedule
7 )   Diagnose
8 )   Doctor
9 )   Doctorviewshistory
10 )  Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 3



You are now viewing the patient table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(101, 'pa1@gmail.com', 'pa1', 'Patient1', 'Andhra Pradesh', 'Female')
(103, 'pa3@gmail.com', 'pa3', 'patient3', 'sdjfb', 'male')
(104, 'pa4@gmail.com', 'pa4', 'patient4', 'sdf', 'female')
(105, 'pa5@gmail.com', 'pa5', 'patient5', 'dfg', 'male')
(106, 'pa6@gmail.com', 'pa6', 'patient6', 'ddfs', 'female')
(1022, 'pa221@gmail.com', 'pa122', 'Patient1', 'Andhra Pradesh', 'Female')
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 1


These are the following tables available for you to see
```

Viewing Appointment details:

```
C:\Windows\System32\cmd.exe - python3  main.py


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : 1


These are the following tables available for you to see
1 )  Patientsfillhistory
2 )  Medicalhistory
3 )  Patient
4 )  Patientsattendappointments
5 )  Appointment
6 )  Schedule
7 )  Diagnose
8 )  Doctor
9 )  Doctorviewshistory
10 )  Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 5



You are now viewing the appointment table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(1, datetime.date(2021, 1, 19), datetime.time(9, 0), datetime.time(10, 0), 'Done')
(2, datetime.date(2021, 5, 22), datetime.time(10, 0), datetime.time(11, 0), 'Done')
(3, datetime.date(2021, 11, 16), datetime.time(14, 0), datetime.time(15, 0), 'Done')
(4, datetime.date(2021, 9, 20), datetime.time(22, 0), datetime.time(23, 30), 'Cancelled')
(5, datetime.date(2021, 12, 9), datetime.time(10, 0), datetime.time(11, 0), 'Ongoing')
(6, datetime.date(2021, 1, 19), datetime.time(18, 0), datetime.time(18, 30), 'Ongoing')
Welcome to the Hospital Database System


To view contents to table press (1)
```

Diagnose Register

```
To delete records of table press (4)
Press any other key to exit
Enter your choice : 1


These are the following tables available for you to see
1 )   Patientsfillhistory
2 )   Medicalhistory
3 )   Patient
4 )   Patientsattendappointments
5 )   Appointment
6 )   Schedule
7 )   Diagnose
8 )   Doctor
9 )   Doctorviewshistory
10 )   Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 7



You are now viewing the diagnose table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(1, 5, 'Bloating', 'Ibuprofen as needed')
(2, 2, 'Muscle soreness', 'Stretch morning/night')
(3, 6, 'Vitamin Deficiency', 'Good Diet')
(4, 1, 'Bloating', 'Ibuprofen as needed')
(5, 6, 'Muscle soreness', 'Stretch morning/night')
(6, 4, 'Vitamin Deficiency', 'Good Diet')
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice : _
```

Doctors Schedule:

```
These are the following tables available for you to see
1 )  Patientsfillhistory
2 )  Medicalhistory
3 )  Patient
4 )  Patientsattendappointments
5 )  Appointment
6 )  Schedule
7 )  Diagnose
8 )  Doctor
9 )  Doctorviewshistory
10 )  Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 10



You are now viewing the docshaveschedules table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(6, 1)
(2, 2)
(2, 3)
(3, 4)
(4, 5)
(5, 6)
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice :
```

Doctor's View History:

```
C:\Windows\System32\cmd.exe - python3 main.py

To delete records of table press (4)
Press any other key to exit
Enter your choice : 1


These are the following tables available for you to see
1 )  Patientsfillhistory
2 )  Medicalhistory
3 )  Patient
4 )  Patientsattendappointments
5 )  Appointment
6 )  Schedule
7 )  Diagnose
8 )  Doctor
9 )  Doctorviewshistory
10 )  Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 9



You are now viewing the doctorviewshistory table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(1, 5)
(2, 2)
(3, 6)
(4, 1)
(5, 6)
(6, 4)
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice :
```

Viewing Schedules:

```
These are the following tables available for you to see
1 )  Patientsfillhistory
2 )  Medicalhistory
3 )  Patient
4 )  Patientsattendappointments
5 )  Appointment
6 )  Schedule
7 )  Diagnose
8 )  Doctor
9 )  Doctorviewshistory
10 )  Docshaveschedules

Enter the name or number associated with the table to see the contents or type menu to go back: 6




You are now viewing the schedule table.
To see all data in table press 1
To check particular record in table press 2
Enter choice : 1
Showing all records
(1, datetime.time(9, 0), datetime.time(17, 0), datetime.time(12, 0), 'Tuesday')
(2, datetime.time(10, 0), datetime.time(18, 0), datetime.time(12, 0), 'Friday')
(3, datetime.time(17, 0), datetime.time(23, 0), datetime.time(20, 0), 'Saturday')
(4, datetime.time(9, 0), datetime.time(12, 0), datetime.time(10, 30), 'Sunday')
(5, datetime.time(9, 0), datetime.time(17, 0), datetime.time(12, 0), 'Wednesday')
(6, datetime.time(17, 0), datetime.time(23, 0), datetime.time(20, 0), 'Friday')
Welcome to the Hospital Database System


To view contents to table press (1)
To add records to table press (2)
To update records of table press (3)
To delete records of table press (4)
Press any other key to exit
Enter your choice :
```

Database Migration And Support

If due to performance issues, or any other requirements, if we need to migrate current database then we would prefer Neo4j.

We can get the best out of graph database Neo4j when

1. large amounts of data. According to a survey Hospitals produce 50 petabytes of data per year.

2. has intricately structured high value relationships

3. and is constantly evolving.

Since our data follows all the three points, we would probably migrate it to the neo4j graph database.