HEALTHCARE APPOINTMENT BOOKING

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PROBLEM :

- Create , Read , Update , Delete doctor appointments.

- Send remainders.

- Generate doctor availability reports.

- Handle booking of healthcare appointments with remainders for patients and doctors.

- Create appointment handling features and send remainders ..implement doctor

Solution :

- Used the concept of OOP's

- Implemented the concept of multiple inheritance.

- Defined three classes namely ADMIN , DOCTOR , PATIENT.

- Classes DOCTOR and PATIENT inherit class ADMIN.

- ADMIN consists of a CONSTRUCTOR to initialize values.

- DOCTOR contains methods namely availability method , send _remainder method.

- PATIENT contains send _ remainder method , display method and input methods .

- Use of while loop to choose options between create appointment , delete appointment , send remainder

- And displaying as shown ......

PSEUDOCODE :

- import datetime

- create admin class init fun

- create doctor class-init ,availability ,send_reminder methods

- create patient class-init , send_reminder methods

- appointment input

- multiple inheritance

- create doctor ,patient objects

- while loop

- patient name input if not name break phone email input

- call append method using patients obj

- display method for appointments ,details

- while loop if option 1 elif option 2 elif option 3 elif option 4 else break

Output :

```
Enter appointment date (YYYY-MM-DD HH:MM): 2024-09-26 09:45
Enter patient name (leave empty to finish): ANKUSH
Enter patient phone number: 123-456-7890
Enter patient email: ankush@gmail.com
Enter patient name (leave empty to finish): DIA
Enter patient phone number: 987-654-3210
Enter patient email: dia@gmail.com
Enter patient name (leave empty to finish):
CURRENT TIME: 2024-09-26 21:28:05.262148
```

- Inputting the requirements like name , phone number, email.

DISPLAY THE DETAILS

```
SELECTED APPOINTMENT DATE: 2024-09-26 09:45

Doctor is Available

APPOINTMENT DETAILS:

Doctor Details:
Doctor name: Dr. XYZ
Phone number: 123-456-7890
Email: dr.xyz@example.com

SCHEDULED PATIENTS FOR - 2024-09-26 09:45

Patient name: ANKUSH
Phone number: 123-456-7890
Email: ankush@gmail.com

Patient name: DIA
Phone number: 987-654-3210
Email: dia@gmail.com
```

- Displaying the registered patients on particular time (including doctor and patients)

CONFIRMING THE APPOINTMENT

```
Select an option:
1. Confirm appointments
2. Delete appointment
3. Send reminders

4.EXIT

1

APPOINTMENTS CONFIRMED

Appointment added for ANKUSH with Dr. XYZ at 2024-09-26 09:45:00

Appointment added for DIA with Dr. XYZ at 2024-09-26 09:45:00
```

- Patient appointment confirmation process.
- Using option1 (confirm appointments).

DELETING THE APPOINTMENT

```
Select an option:
1. Confirm appointments
2. Delete appointment
3. Send reminders

4.EXIT

2

APPOINTMENT DELETED
```

- Patient appointment deletion process.
- Using option2(delete appointment).

SEND REMAINDERS

```
Select an option:
1. Confirm appointments
2. Delete appointment
3. Send reminders

4.EXIT

3
Reminder sent to ANKUSH for appointment on 2024-09-26 09:45.
Reminder sent to DIA for appointment on 2024-09-26 09:45.
Reminder sent to Dr. Dr. XYZ for appointment on 2024-09-26 09:45.
```

- Process of sending remainders to patients and doctor.
- Using option3(send remainder).

EXIT THE APPLICATION

```
Select an option:
1. Confirm appointments
2. Delete appointment
3. Send reminders


4.EXIT


4
```

- Exit appointment registering process.
- Using option4(EXIT)