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Introduction

This project is related to medical center having name Woodland Medic Centre is a privately run clinic that specializes in medical tourism. This system will be used by receptionists to register appointments for un-registered clients who require medical assistance. Appointments should only be booked on the current day. The system is command line interface having the functionality of following operations as follows.

Features

Woodland Medic Centre has following feature that implemented using Object Oriented Programming also known as OOP.

- Appointment register. Patient will be registered for appointment booking.
- Cancel an appointment of Doctor/Patient.
- Show a doctor's complete schedule.
- Show all doctor's schedule between two dates.
- Show a patient's appointment details.

As for the system is all about medical where doctor ,patients and receptionists interact so one doctor have only seven appointments and each one will have for 1 hour that mean total seven hour doctor will work or available for duty.

Menu Drive

Following is the menu of the Medicare system where receptionists will interact and get appointments based on the availability of doctor. See below in diagram attached

```
*****
*      MEDICARE      *
*****
1. Book an appointment.
2. Cancel an appointment.
3. View a doctor's schedule.
4. View a patient's apointment.
5.      Exit
Please enter an option:|
```

As we can see that there are multiple options where receptionists can select according to need. So depending on the option selected from the main menu as shown above, sub menus will appear as shown below based on selected options for example if receptionist select option 3 from the main menu is selected, a sub menu will appear offering the user the choice to select to view all doctors or specific doctor.

For example id option 1 is selected then a separate sub-menu will appear where the user to enter the patient's details as shown below

- First Name & Surname
- Telephone Number
- Date of Birth (DOB)
- Country of origin (country Name)

One user fill the details then system will prompt to new sub menu where they can select a time slot after which the program will show only the Doctors who are available at that chosen time. We have only four doctors who are available to work at Woodland Medic Center clinic having name as shown below.

- Dr. Emily Likova
- Dr. Stephen Marganic
- Dr. Seagal Handsome
- Dr. Lily Win

Outcome

The outcome of system is to perform all the things related to Medicare center as it mentioned.

- The system should register an appointment for the current day.
- Cancel an appointment after which the slot should be marked as available.
- View the schedule for a specific doctor.
- View the details of an appointment which should show:
- Patient's: First Name, Surname, Telephone, Date of Birth, Country of origin. Time of the appointment and the Doctor the appointment has been registered with.

Output Screenshots:

Main Menu:

This is the menu drive interface showing all the services of system.

```
*****
*           MEDICARE           *
*****
1. Book an appointment.
2. Cancel an appointment.
3. View a doctor's schedule.
4. View patient's appointment.
5. Exit.
Please enter an option.
```

Sub menu of Option 1:

Once I selected option one then it's asking complete details of patients as shown in figure.

```
*****
```

1. Book an appointment.
2. Cancel an appointment.
3. View a doctor's schedule.
4. View patient's appointment.
5. Exit.

Please enter an option.

1

Enter the Firstname:

ALi

Enter the Surname:

khan

Enter the telephone:

43749823

Enter the date of birth:

23

Enter the country of origin:

pakistan

Enter the time:

7

Registered of Dr.Seagal Handsome

Once patients details get then receptionist assigned a doctor to patients based on the availability of doctor as show in above diagram to that Dr. Seagal assigned to Ali

Option 4:

View patient details as I already registered. It also showing that which doctor is assigned to which patient.

Registered of Dr.Seagal Handsome

* MEDICARE *

1. Book an appointment.
2. Cancel an appointment.
3. View a doctor's schedule.
4. View patient's appointment.
5. Exit.

Please enter an option.

4

No patients of .Dr.Emily likova

No patients of Dr.Stephen Marganic

Patients:

Firstname:ALi khan

telephone:43749823

Date of birth:23

Country of origin: pakistan

Time:7

Patient of Dr.Seagal Handsome.

No patients of Dr.lily Win

View Doctor' appointment:

The below attached file the appointment of doctors where only one doctor has appointment while others has zero because we registered only one patients having name ali khan. So the system is working well on the appointment details of doctors as well.

```

*****
*           MEDICARE           *
*****

1. Book an appointment.
2. Cancel an appointment.
3. View a doctor's schedule.
4. View patient's appointment.
5. Exit.
Please enter an option.
3
1.Every Schedule of doctor
2.Specific Schedule of doctor
1
Dr.Emily likova
Registered appointment in current day is 0
Dr.Stephen Marganic
Registered appointment in current day is 0
Dr.Seagal Handsome
Registered appointment in current day is 1
Dr.lily Win
Registered appointment in current day is 0
.....

```

Cancel Appointment

As we registered only one patients so now I choose option 2 where it's clear that it is related to cancel appointment so as shown below that I choose option 2 then a sub menu is displayed where it again asking for that for which doctor you want to cancel so as I have to cancel for Dr. Seagal so I choose 3 and now I got messages that appointment cancel successfully.

* MEDICARE *

1. Book an appointment.
2. Cancel an appointment.
3. View a doctor's schedule.
4. View patient's appointment.
5. Exit.

Please enter an option.

2

- 1.Dr.Emily likova
- 2.Dr.Stephen Marganic
- 3.Dr.Seagal Handsome
- 4.Dr.lily Win

Please enter an option

3

Cancelled appointment of Dr.Seagal Handsome

And finally we have exit option that will terminate program.