

# Doctor Surgery

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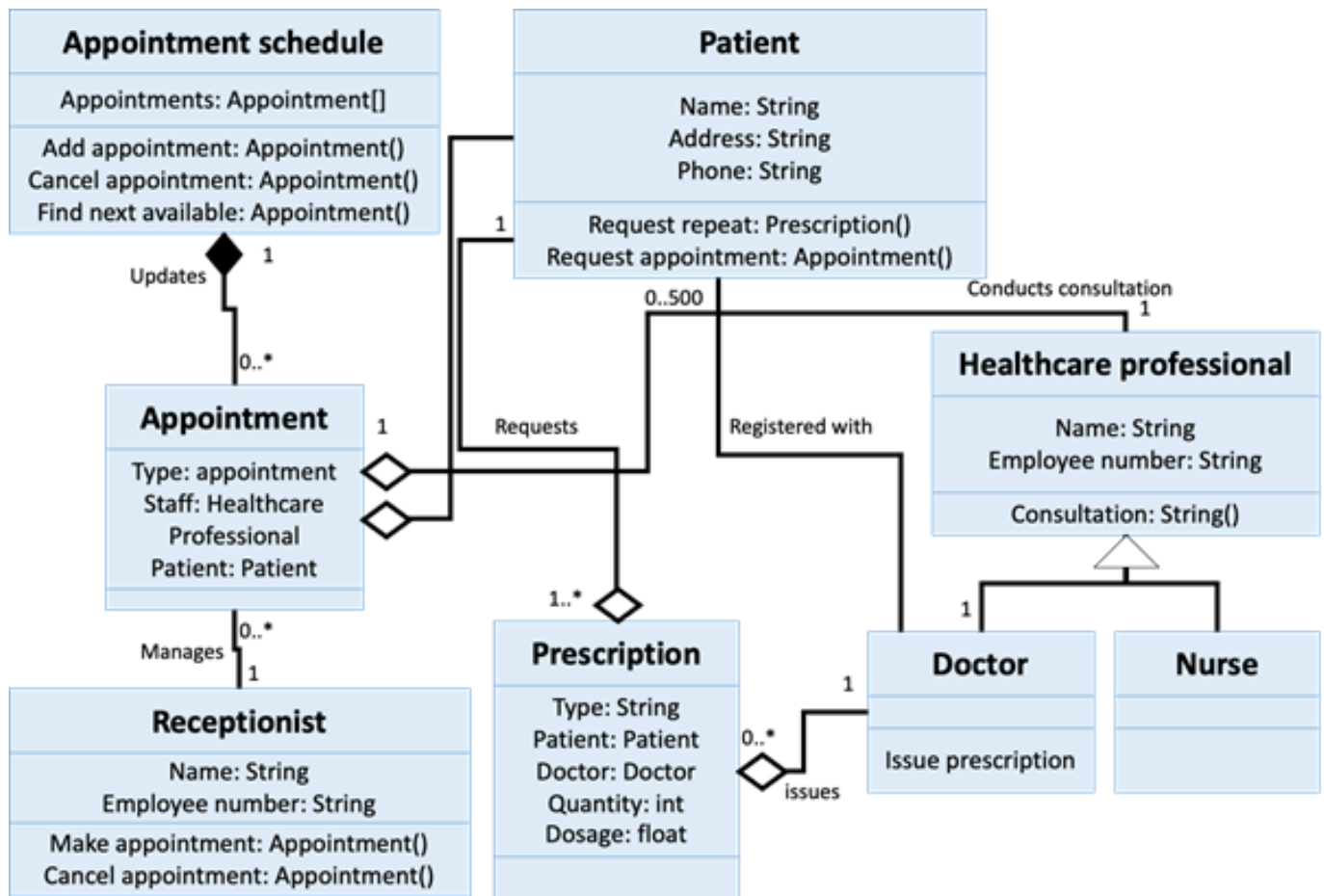
This application is designed for doctors surgery / clinic.

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## About

This application is for doctors surgery/clinic. It provides a user-friendly command-line interface for registering patients, doctors and nurses. Also, it provides the ability to generate appointment schedules for doctors and nurses, reserve / cancel appointments for patients, write consultations and issue prescriptions. Object-Oriented programming methodology was used for this application according to a pre-established design as shown in the class diagram below. This programming methodology enables the representation of real-life objects/people. For example, patients, doctors and nurses were represented by a class for each; a Patient class for patients, A Doctor class for Doctors and a Nurse class for Nurses. Another important aspect is the need for adequate testing. Python Unit testing was used to test the most important functions like registering patients, saving data to and importing data from csv files, and finding next available appointment. In addition, dummy data was provided for user-testing most of which were generated using DumbData website (<http://dumbdata.com/>).



Data persistence was managed through csv files.

## Getting Started

The following instructions will guide you on how to run this python script.

### Prerequisites

Python 3 is needed to run this project.

If you don't have python installed on your computer, follow this link to install python on your computer [python](#).

You can check if you have python 3 installed by running the following command on the terminal (MacOS) or command prompt (Windows)

```
python --version
```

Example output:

```
Python 3.9.9
```

### Running the script

- Download the project folder [DoctorSurgery](#)
- Open the terminal on MacOS or the command prompt on Windows 7/10.
- Go to the directory that contains the project files. Example:

In MacOS:

```
cd Downloads/DoctorSurgery/
```

In Windows:

```
cd Downloads\DoctorSurgery\
```

- Run the script by typing the following command

```
python main.py
```

Main screen will look like this:

Please select one of the options below:

```
1: Receptionist
2: Nurse
3: Doctor
4: Administration
-1: To return to the previous menu
0: Quit
```

```
> █
```

## Application instructions

This program has a user-friendly CLI interface as seen above. To navigate through the application, you just need to type in the selection number, then hit enter key. The main screen is shown above. You have different options to select from.

### Option 1: Receptionist

This menu option will provide receptionist functionalities including registering patients, booking/canceling appointments and forwarding prescription repeat requests.

Please select one of the options below:

- 1: View Registered Patients
- 2: Register Patients
- 3: View Appointments
- 4: Book Appointment / Request Repeat
- 5: Cancel Appointments
- 6: Prescription Repeat Request
- 7: Generate Appointments Schedules
- 1: To return to the previous menu
- 0: Quit

#### Option 2: Nurse

This menu option will provide receptionist nurse functionalities including viewing appointments, writing consultations and viewing consultations.

Please select one of the options below:

- 1: View Registered Patients
- 2: Register Patients
- 3: View Appointments
- 4: Book Appointment / Request Repeat
- 5: Cancel Appointments
- 6: Prescription Repeat Request
- 7: Generate Appointments Schedules
- 1: To return to the previous menu
- 0: Quit

#### Option 3: Doctor

This menu option will provide doctor functionalities including viewing appointments, writing consultations and prescriptions, and viewing consultations and prescriptions.

```
1: View Appointments
2: Write a Consultation
3: Write a Prescription
4: View Consultations
5: View Prescriptions
-1: To return to the previous menu
0: Quit

> █
```

#### Option 4: Administration

This menu option will provide administration functionalities including registering doctors and nurses.

#### Option 5: Return to the main menu anywhere in the program

To return to a previous menu, you just need to type -1 followed by enter anywhere in the application.

```
Please select one of the options below:
```

```
1: Receptionist
2: Nurse
3: Doctor
4: Administration
-1: To return to the previous menu
0: Quit

> █
```

#### Option 6: Quit the program from the main menu

To quit the application completely, you just need to return to the main menu then type 0 followed by enter key.

Please select one of the options below:

- 1: Receptionist
- 2: Nurse
- 3: Doctor
- 4: Administration
- 1: To return to the previous menu
- 0: Quit

>

## Built Using

- [Python 3.9](#) - Interpreted programming language.

## Author

- [@drmohammadatieh](#)

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