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Date Created: July 16, 2025

Course: ITT103

GitHub Public URL to Code: https://github.com/Soneka791/upha.soneka.program

1. PURPOSE OF THE PROGRAM:

This is a simple console-based Hospital Management System written in Python. The system allows the user to manage patients and doctors, book and cancel appointments, view profiles and schedules, and generate billing for appointments.

Main features include:

- Add a new patient

- Add a new doctor

- Book an appointment

- Cancel an appointment

- View patient profiles

- View doctor schedules

- Generate appointment bills

- Exit the system

2. HOW TO RUN THE PROGRAM:

To run the program, follow these steps:

1. Ensure you have Python installed on your computer.

You can download it from https://www.python.org/downloads/

2. Save the program in a .py file (e.g., `hospital\_system.py`).

3. Open a terminal or command prompt and navigate to the location of your file.

4. Run the script using the command:

Downloaded Python

5. Follow the on-screen menu prompts to interact with the system.

3. REQUIRED MODIFICATIONS:

Before running the system, make sure you do the following:

- Implement or import a hospital class with methods such as:

- add\_patient(name, age, gender)

- add\_doctor(name, age, gender)

- book\_appointment(patient\_id, doctor\_id, date, time)

- cancel\_appointment(patient\_id, doctor\_id, date, time)

- generate\_bill(appointment\_id)

- As well as access to hospital.patients and hospital.doctors dictionaries.

- Create the necessary Patient and Doctor classes with methods like view\_profile() and view\_schedule().

4. ASSUMPTIONS OR LIMITATIONS:

- The program assumes that all input is entered correctly. There is limited input validation (e.g., for date formats or ID existence).

- The data is not saved to a database or file — it's all stored in memory. Once the program closes, all data is lost.

- No login or authentication system is implemented.

- This is a single-user, command-line application designed for learning and demonstration purposes.

“I CERTIFY THAT I HAVE NOT GIVEN OR RECEIVED ANY UNAUTHORIZED ASSISTANCE ON THIS ASSIGNMENT”.