

Hospital Management System Project

Project Introduction:

This project aims to create a simplified hospital management system using Python. The system focuses on recording patient and doctor data and validating inputs using regular expressions, while applying object-oriented (OOP) principles such as class creation and inheritance.

Project Objectives:

Record patient and doctor data.

Verify email addresses, phone numbers, and names.

Display patient and doctor information.

Use special expressions to validate input data.

System Design :

Person: The Go class represents a person (containing name, email address, age, and phone number).

Patient: Inherits from Person along with additional attributes such as patient number and disease.

Doctor: Inherits from Person along with additional attributes such as doctor number and specialty.

The system connects to a database (such as SQLite).

Requirements:

Add/view/edit/delete/search for patients and doctors.

Define a specialist doctor for each patient.

Define the number of patients per doctor.

Search for doctors by specialty.

Disease research for patients.

Export periodic reports for both doctors and patients as PDF and Excel files.

Doctor login.

"Bonus" graphical user interface

Important Notes:

Copied and similar files will receive a zero mark.

A maximum of three students are allowed to participate in the project.

Please send a copy of the project to the email address:

J-alhadid@aiu.edu.sy

The deadline for submission is Monday, May 12, 2025, and Wednesday, May 14, 2025.

Good luck.

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