

REPORT: HOMEWORK 3

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- **State the name of your application:**

Medical Appointment Management System

- **State your information:**

A web application that helps schedule and manage medical appointments for patients and doctors. The main point of the application is that the patients can book their appointments on their own.

- **Describe the problem (approximately 2 paragraphs) and your solution (approximately 2 paragraphs). Try to answer questions such as: what is the problem that is being addressed, who are the main users, and how is the application being used:**

Problem:

The inefficient process of scheduling and managing medical appointments.

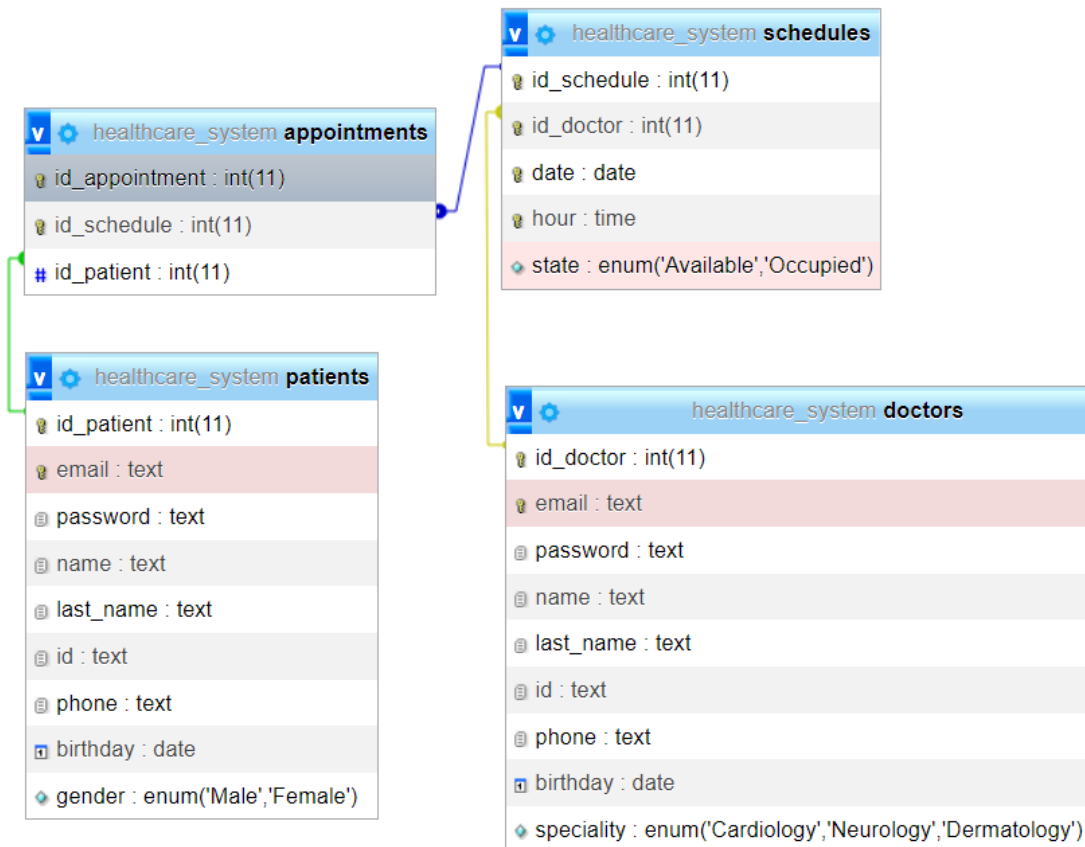
In the old times, patients must call or visit clinics to book appointments, leading to waiting times and potential scheduling conflicts. Also, doctors face challenges in managing their schedules and keeping track of appointments manually. This could result in some problems as missed appointments, patient dissatisfaction, and inefficient use of healthcare resources.

Solution:

A good solution is the Medical Appointment Management System, a web application that speeds up the appointment scheduling process for patients and doctors.

Patients can search for available doctors by speciality, check dates, and schedule appointments with one of the doctors of that speciality that is available. On the other hand, doctors can check their appointments and with whom they have it. In future and more complex versions, this could also have reminders, medical history of the patient...

- **Show your database schema graphically: list tables, their attributes, and relations, and if applicable, explain non-trivial attributes. I suggest making the graphical schema representation with PHPMysqlAdmin Designer;**



The only thing that may not be trivial is the table schedules. This table represents the schedules of a doctor, and, in the beginning, all schedules have the state available. If any appointment is done, one trigger would change the state to Occupied (of the table schedules).

• List the sitemap of your application.

