Cairo University SEM-team

Faculty of Engineering

Computer Engineering Department

CMP 202

Pharmacy ER Diagram

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# Problem Definition: -

#### -This system has data of all pharmacies, its location and name, the available drugs and medical instruments, and the data of their customer and employees.

#### -This application help people finding the nearest pharmacy to them and see the available medicines and instruments, and order their needs online.

#### -The application will also help the pharmacy's manager to track the data of his employees, stocks and sales, and help the employee to track the customer's data.

# Users: -

## Client

Client is the main focus in the system, He can make account on the system, then can see the pharmacies, choose the nearest one from him, see the available drugs in it and their price, and can buy them, also they can rate the services & report for any problem.

## Manager

Manager is considered as the admin of the system, He can see all the data on the system belonging to the pharmacy he works in, update data of the employees who work with him and deal with suppliers and donors, and view all reported problems.

## Employee

Employee can see items of the stock, of the pharmacy they work in, and the drugs and instruments inside it, they can see and update data of the drugs, instruments or the data of their job and also report for any problem.

## Donor

Donor has limited access to the system as He can only see the information of the patients who need donors, he can contact with the manager, report for any issue and pay for the patient or the pharmacy.

## Applicant

This is a special user of the system, this user can only view the pharmacies who need employees & apply to them.

# Entities:

## Pharmacies

The system introduces for the user all the pharmacies and all its important information that the user needs to know.

## Drugs

This entity is the drugs inside a pharmacy and all its information that the user needs to know, and this information is viewed according to the user.

## Client

This entity is the client who makes an account to be up to date with all information about his nearest pharmacy, and then he could buy the drugs he needs.

## Employee

This entity is the employee inside a pharmacy.

## Stock

It is the stock inside a pharmacy which includes all drugs and instruments of the pharmacy, and also has the information of both drugs and instruments.

## Suppliers

They are people who the pharmacies buy the drugs from.

## Instruments

They are the instruments which the pharmacies use to treat patients.

## Patients

They are people who have some disease which needs to take some drugs for a long period of time, which also need a donor some times.

## Donor

They are people who have money to give to people who need donates if they can't pay for the drugs they need.

## Sales

This entity contains all the archive of sells, all the money taken from a donor, all the sells had done with a client and all the purchases for the drugs.

## Applicant

This entity represents a user who can apply to work in pharmacies.

# Relationships:

1. Donate:

This relation describes the process of the donation which contains: a donor, a patient, one or more drug and a pharmacy.

1. Request:

Between drugs, client, pharmacy.

The client requests drugs from the pharmacy.

1. Supply:

This relation describes the process of supplying drugs from a supplier to a pharmacy.

1. Work for:

Between employee, pharmacy.

The employee works for the pharmacy.

1. Apply:

Between pharmacy, applicant.

The applicant applies for a job from the pharmacy.

1. Contain(stock-drug):

Between drugs, stock.

The stock contains drugs.

1. Contain(stock-instrument):

Between stock, instrument.

The stock contains instruments.

1. Has(pharmacy-stock):

Between pharmacy, stock.

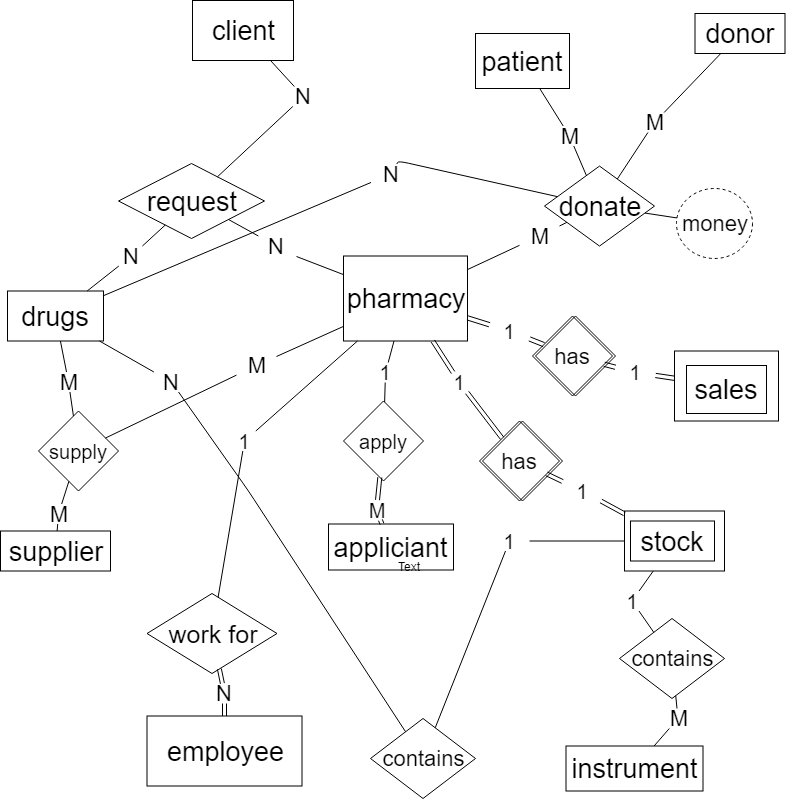
The pharmacy has a stock.

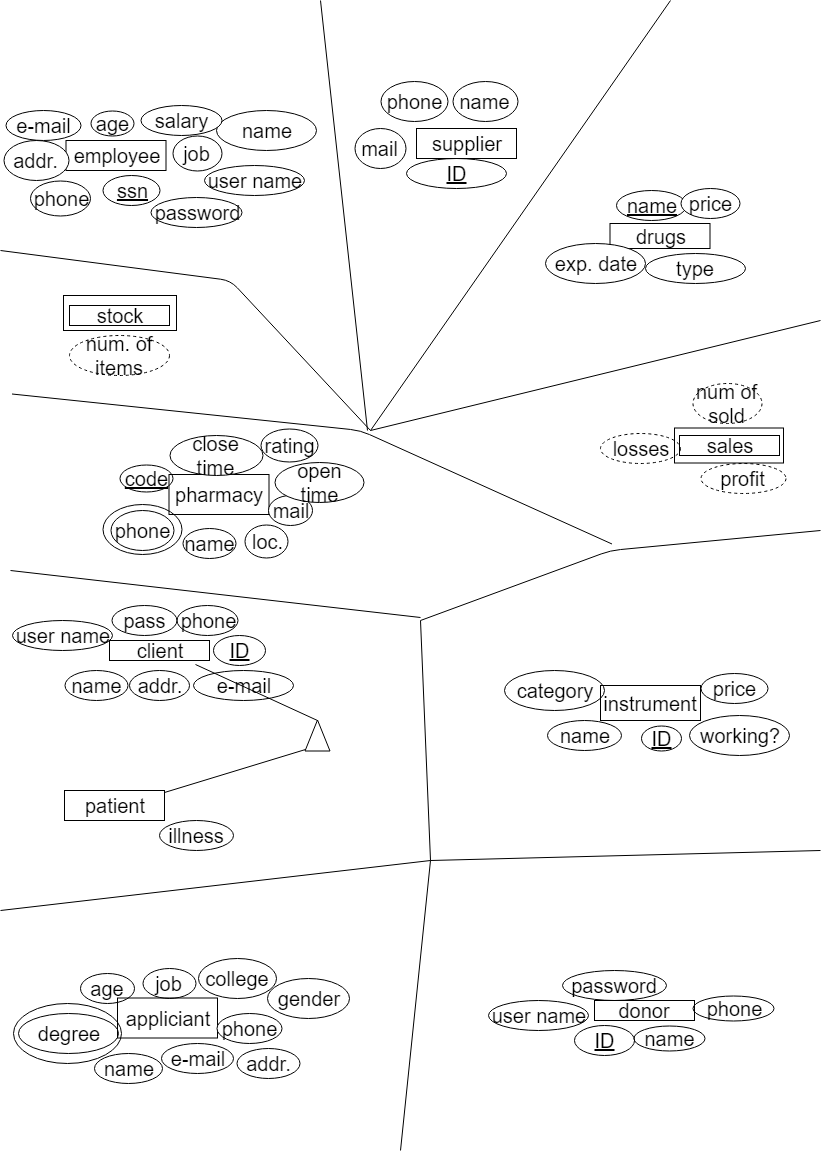
1. Has(pharmacy-sales):

Between pharmacy, sales.

The pharmacy represents sales.

**ER Diagram**

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