



***ONpharma***

# Problem Definition

Patients and their relatives from over the world suffer from the problem of visiting doctors and having to hold all the patient's previous prescriptions, scans and analyses or more often having to memorize all the patient's medical records and allergies.

ONpharma presents a solution for these problems by holding all these stuff for them in a fully structured form. Nevertheless, it establishes a secure connection between the patient and the doctor to provide a professional examination process for both sides.

ONpharma provides many other functionalities such as allowing the patient to search for medicines in nearby pharmacies and suggesting alternatives - in case of medicine shortage- directly from the patient's digital prescription.

ONpharma can also be used by pharmacists to better control and manage pharmacies by showing current medicines in the stock, suggesting medicines' alternatives, handling cash and a lot more.



## Users

- Holds the all users' accounts and common personal information e.g. Google account

## Doctors

- The doctor must be a user, to be a doctor he should specify more information such as his degree and clinic address

## Pharmacists

- The pharmacist must be a user, he can just be a pharmacist working in a pharmacy or a Manager who can manage the pharmacy and the pharmacists working in it

## Patients

- Patients can use the system to keep their medical information such as scans, analysis, prescriptions and chronic diseases

## Pharmacies

- Holds all pharmacies' information such as name, address and most importantly the stock

## Items

- Items are the objects held by the stock; they represent any item available in the pharmacy from antibiotics to cosmetics

## Stocks

- Holds all the items in the pharmacy and specifying the quantity of each one

## Scans

- Holds the scans of every patient in the database

## Analysis

- Holds the analysis of every patient in the database

## Prescriptions

- Holds the prescriptions of every patient in the database

## Chronic diseases

- Holds the chronic diseases of every patient in the database

## Total Purchase

- Holds the total cash money for the day

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## List of Relationships

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### *IS a*

- The user can be both patient and doctor or both patient and pharmacist

### Manages

- The Pharmacist can be a manager to manage the pharmacy and other pharmacists
- The pharmacy manages its own stock

### *Works for*

- The pharmacist works for a pharmacy

### Has

- The patient has scans, analyses, prescriptions and chronic diseases

### Contain

- The stock contains items

### Earns

- The farmacy Earns money

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## List of Users

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### Pharmacist

- Can either by a manager or a normal pharmacist.
- The normal pharmacist has a control over the stock and manages the normal purchase operations.
- The manager has the same privileges as the normal pharmacist but, manages the normal pharmacists themselves and own the pharmacy.

### Doctor

- Responsible for examining the patient and update his medical history.

### Patient

- Can store all his medical information in one place to ease the examination process.



