# Drug\_dispensing\_tool-user case diagram explanation.

The user case diagram for this process illustrates the various steps involved in dispensing medication, including creating the prescription, preparing the medication, and verifying the medication for accuracy. Each actor in the process has a specific role to play, and the diagram helps to ensure that all actors are aware of their responsibilities and can work together to ensure that the process runs smoothly.

This user case diagram for a drug dispensing tool involves 6 actors, namely Patient, Pharmacist, Doctor, Pharmacy, Supervisor, and Pharmaceutical Company. Each actor plays a distinct role in the process of dispensing drugs. i.e.;

The Patient is the person who requires the medication and initiates the process by visiting a doctor. The Doctor then prescribes the medication and sends it to the Pharmacy. The Pharmacy receives the prescription and prepares the medication for dispensing. The Pharmacist then checks the medication for accuracy and provides it to the Patient. Apart from that the patient can view, add or remove his/her details (patient’s national ID, names and address), make their payments and view their prescriptions.

The Pharmaceutical Company is basically responsible for producing the medication and ensuring that it meets all safety and regulatory requirements. They get their orders from various pharmacies by contracts. From the company’s view, they can view their details, their orders and their active orders.

The Supervisor is responsible for overseeing the contracts to ensure that they are carried out correctly and efficiently. They are responsible for ensuring that all actors involved in the process are following the proper procedures and protocols. In this case the system is set that each contract can just have one supervisor, but one supervisor can oversee more than one contract.

The doctor, after consultation with the patient is then able to view each of their patients’ details, create and update the patients’ prescriptions.

The Pharmacy is basically responsible for distributing the medication and ensuring that it meets all safety and regulatory requirements. They get their medication from various pharmaceutical companies by contracts and orders. From the pharmacy’s view, they can view their drug stock, set and update drug prices, make drug orders and contracts, update information on contracts or even delete them and finally, view, update or delete pharmaceutical companies.

The pharmacist is responsible for dispensing drugs, viewing a patient’s prescription, following doctor’s instruction to provide a suitable dosage on drugs dispensed,

In summary, the user case diagram for a drug dispensing tool involving 6 actors illustrates the various steps involved in the process of dispensing medication, including the roles and responsibilities of each actor. By following the proper procedures and protocols, the dispensing of medication can be carried out safely and efficiently.

<https://github.com/Mbindyo-Ryan>

<https://github.com/annKimani-ICS>