Functional requirements

R1: The system must be able to load the database with all the previously registered patients.

R2: The system must allow the user to search for an already registered patient or register them in case they aren’t. Of a patient the receptionist registers name, surname, id, gender, age, and a special status if they have any.

R3: The system must be able to assign priority to every patient waiting in queue, this priority will depend on their age and their special status.

R4: The system must be able to separate patients depending on whether they have priority or not, assigning them a different priority depending on their characteristics.

R5: The system must be able to undo any recently made change to any of its subsystems, whether it is the database or either one of the queues.

R6: The system must give the option to the receptionist to visualize at any given moment the patients found in the facilities, the order in which they are to be called, and the option to register the exit of any of the patients.

R7: The system must be able to take any patient out of either queue in the case they are called, let other patients go on to their turns, this must be simulated by taking the time each patient is waiting and taking them out when around two minutes have passed.