

Obstetrics database:

-Requirements Elicitation:

- User stories:

Targets: Obstetrician, Pregnant, Manager, Laboratory staff

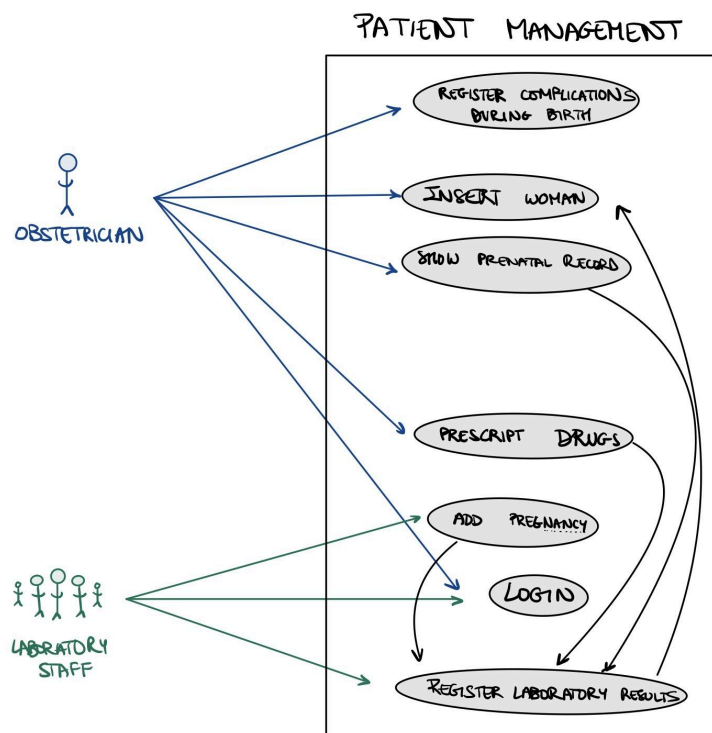
- As an obstetrician, I want to know the laboratory results, in order to check if there is any risk of miscarriage.
- As a pregnant, I would like to know my gestation week, in order to know my due date.

- Use cases:

- Insert women:
 - Actor: Obstetrician
 - Description: The obstetrician registers women on the data.
 - If the patient is already registered due to previous pregnancies: add another pregnancy date.
 - Postconditions: The woman will undergo a pregnancy test.
- Add pregnancy:
 - Actor: Obstetrician
 - Description: The user registers pregnancy data, date of conception, type of conception and other relevant details.
 - Preconditions: Pregnant must be registered in the database, just if the laboratory results are positive.
- Register laboratory results:
 - Actor: Laboratory staff
 - Description: The user registers laboratory results associated with a particular pregnancy.
 - Preconditions: Pregnancy must be registered in the database.
- Prescript drugs:
 - Actor: Obstetrician
 - Description: The obstetrician registers drugs prescribed during pregnancy.
 - Preconditions: Pregnancy must be registered in the database.
- Login:
 - Actor: Obstetrician and laboratory staff
 - Description: The obstetrician and laboratory staff can login
 - Preconditions: The system needs to be created.

- Register complications during birth:
 - Actor: Obstetrician
 - Description: Any complications related to birth are recorded. Allows additional details to be registered in text format.
 - Preconditions: Birth must be registered in the database.
- Show prenatal record:
 - Actor: Obstetrician
 - Description: The obstetrician accesses the patient's prenatal history, viewing all events related to her pregnancy, prenatal visits, laboratory results, prescriptions and delivery details.
 - Preconditions: Birth must be registered in the database.

-UML Case Diagram:



-Requirements List:

1. Functional system does:
 - REQ.1: The obstetrician and the laboratory staff can login.
 - REQ.2: A woman can be inserted by the obstetrician on the database.
 - REQ.3: The laboratory staff register laboratory results.

- REQ.4: If the laboratory results are positives, a pregnancy is added to the database by the obstetrician.
- REQ.5: Drugs can be prescribed by the obstetrician.
- REQ.6: The prenatal record can be displayed by the obstetrician.
- REQ.7.: The obstetrician can register complications during birth.

2. Non Functional: How the system does:

NFREQ.1: The system is programmed in Java.

- NFREQ.2:A pregnancy can only be added if the laboratory results test positive.

-Traceability Matrix:

X	REQ.1	REQ.2	REQ.3	REQ.4	REQ.5	REQ.6	REQ.7	NFREQ.1	NFREQ.2
U.C. 1		X		X			X		
U.C. 2				X			X		X
U.C. 3			X						
U.C. 4					X				
U.C. 5	X								
U.C. 6							X		
U.C. 7						x			

U.C. 1: Insert woman

U.C. 2: Add pregnancy

U.C. 3: Register laboratory results

U.C. 4: Prescript drugs

U.C. 5: Login

U.C. 6: Register complications during birth

U.C. 7:Show prenatal record