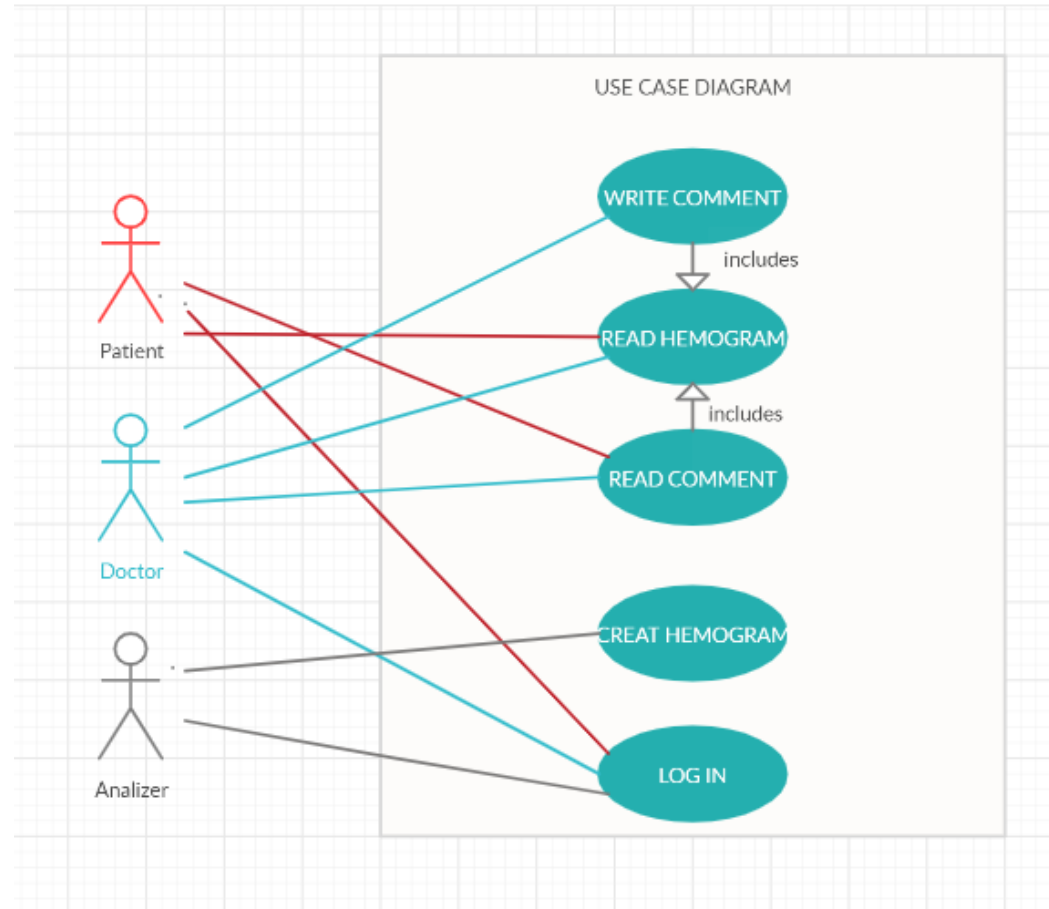


HEMOGRAM DATABASE

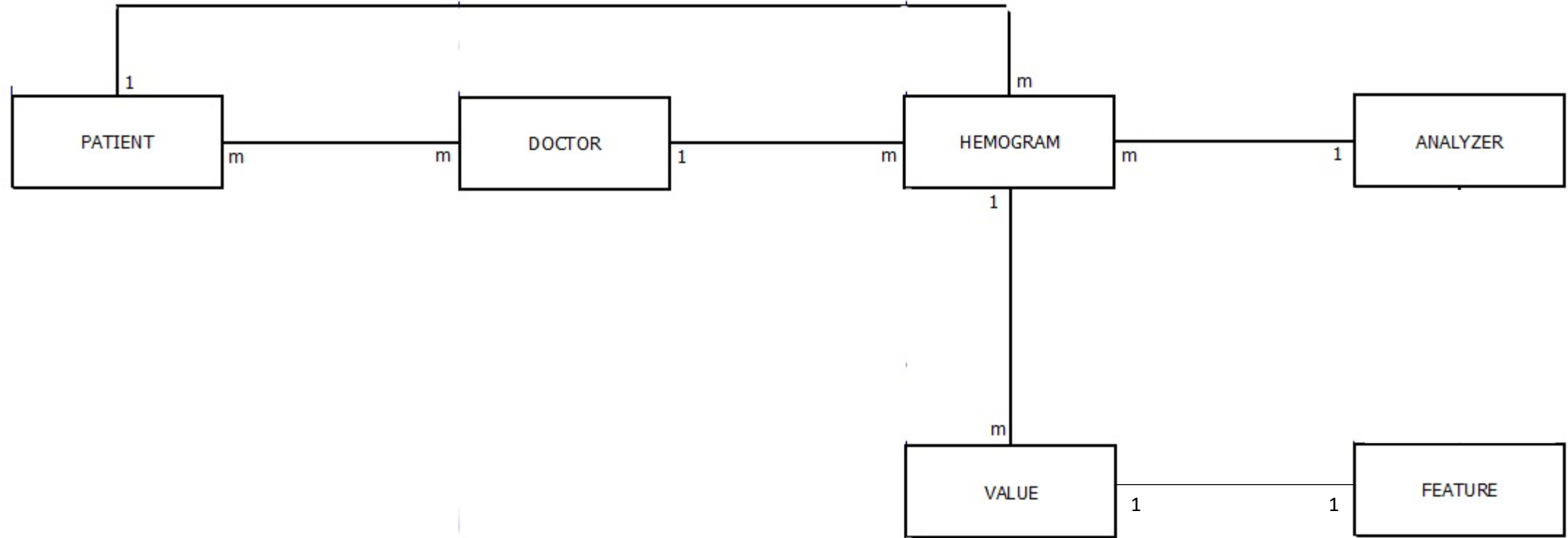


María Montes Santaolalla
Jaime Heras Gimeno
Claudia Pérez Sánchez
Matteo Taronna Nespeca

USE CASE DIAGRAM



ER diagram



PATIENT:

- DNI
- ID
- Name
- Surname
- DoB

DOCTOR:

- Speciality
- ID
- Name
- Surname
- DoB
- WorkUser

HEMOGRAM:

- ID
- Patient ID
- Analyzer
- Doctor ID
- Comment
- Date

ANALYZER:

- Name
- Surname
- WorkUser
- ID

VALUE:

- Feature value
- Feature ID
- Hemogram ID
- ID
- Health

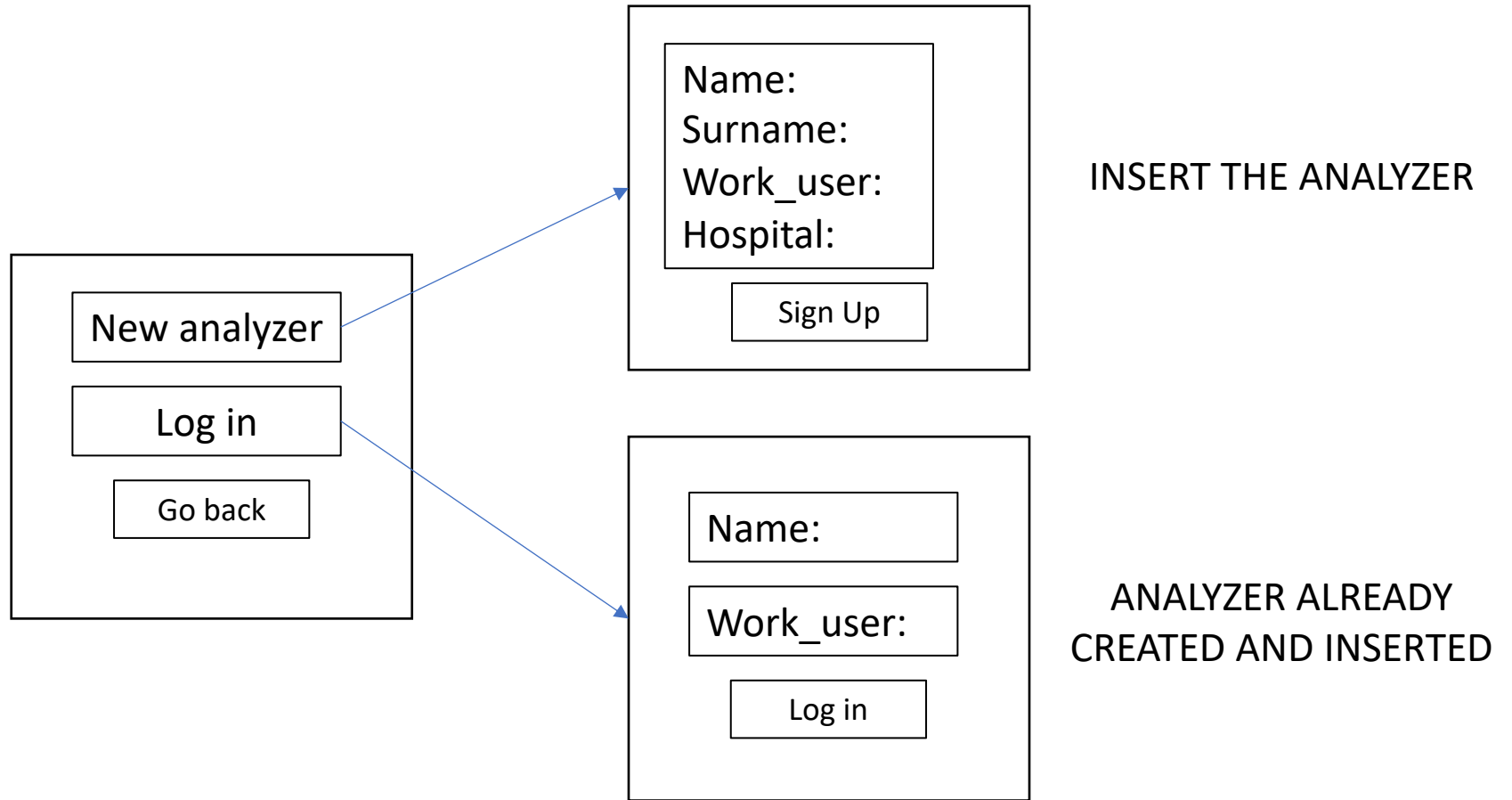
FEATURE:

- Name
- Surname
- MAX
- MIN

SQL → CREATE & INSERT

ANALYZER

- ID
- Name
- Surname
- Work_user
(UNIQUE)
- Hospital

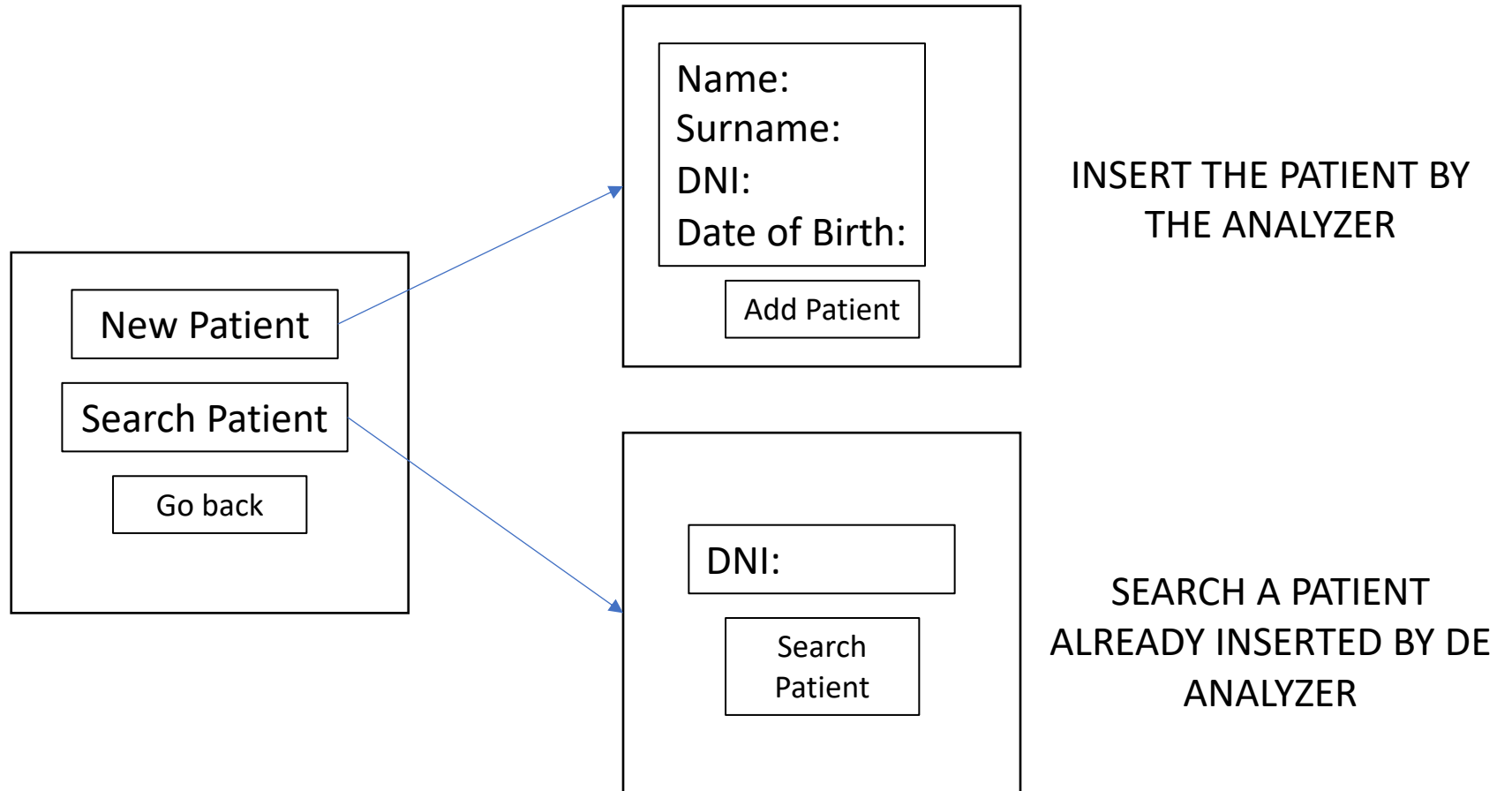


SQL → CREATE & INSERT

PATIENT

- ID
- Name
- Surname
- DNI
- Date of Birth

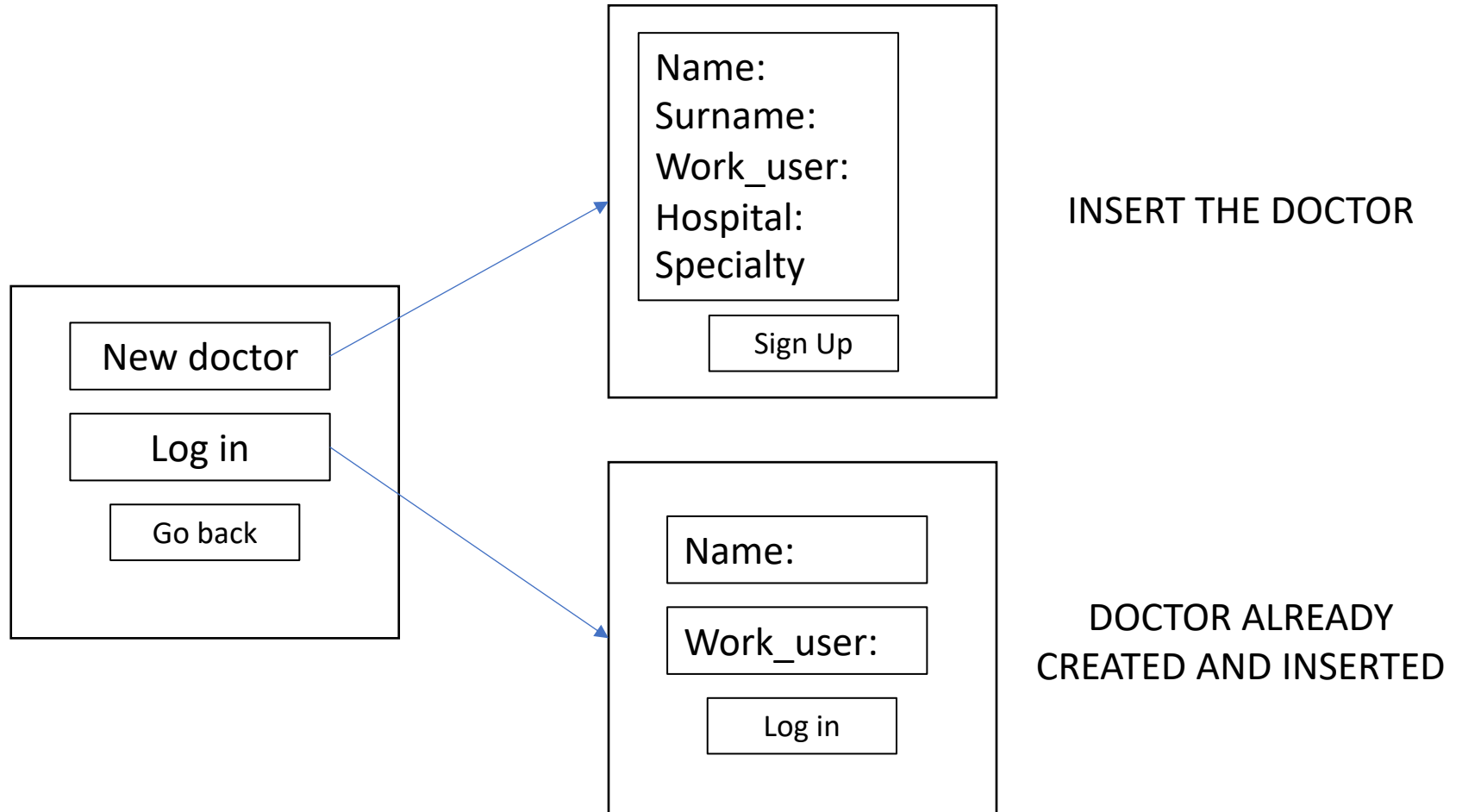
*The patient will
be inserted by
the analyzer



SQL → CREATE & INSERT

DOCTOR

- ID
- Name
- Surname
- Work_user
(UNIQUE)
- Hospital
- Specialty

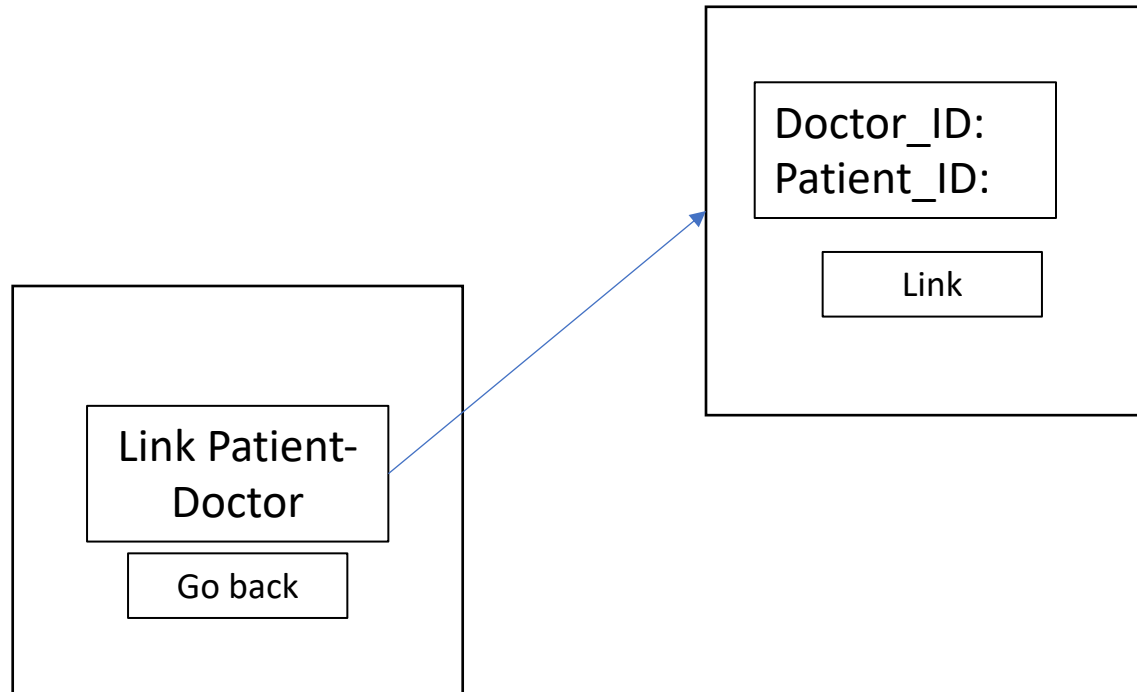


SQL → CREATE & INSERT

PATIENT-DOCTOR

- ID
- Doctor_ID
- Patient_ID

*Many patients
can have many
doctors



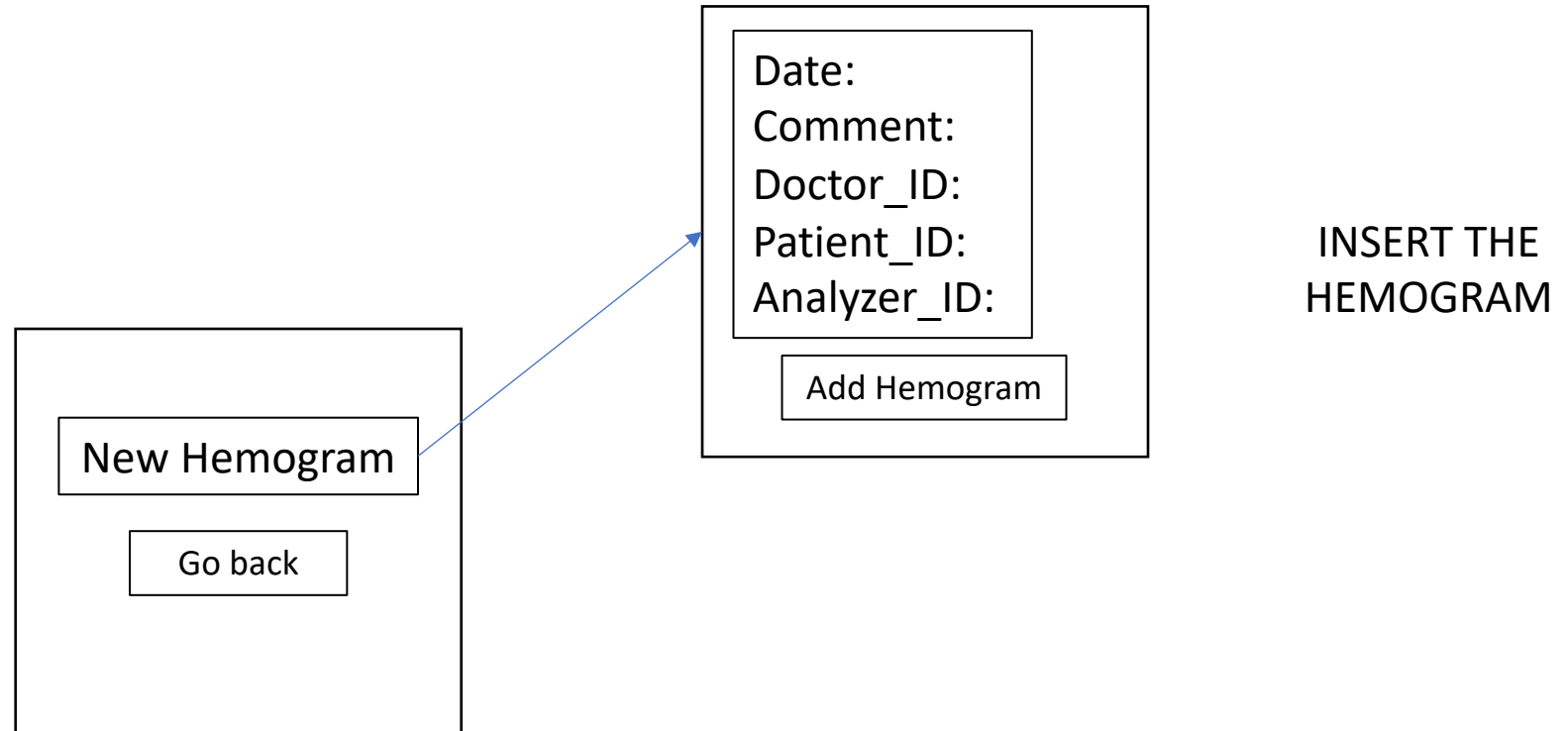
INSERT THE PATIENT-
DOCTOR CONNECTION

SQL → CREATE & INSERT

HEMOGRAM

- ID
- Date_hemogram
- Comments
- Doctor_ID
- Patient_ID
- Analyzer_ID

*Every hemogram will be linked to a specific doctor, patient and analyzer.
*Only the doctor and analyzer can modify the hemogram.



SQL → CREATE & INSERT

FEATURES

- ID
- Name
- Minimum
- Maximum

*They are already added in the tables by the program.

*They will be used by the hemogram and by the Feature Values

Example:

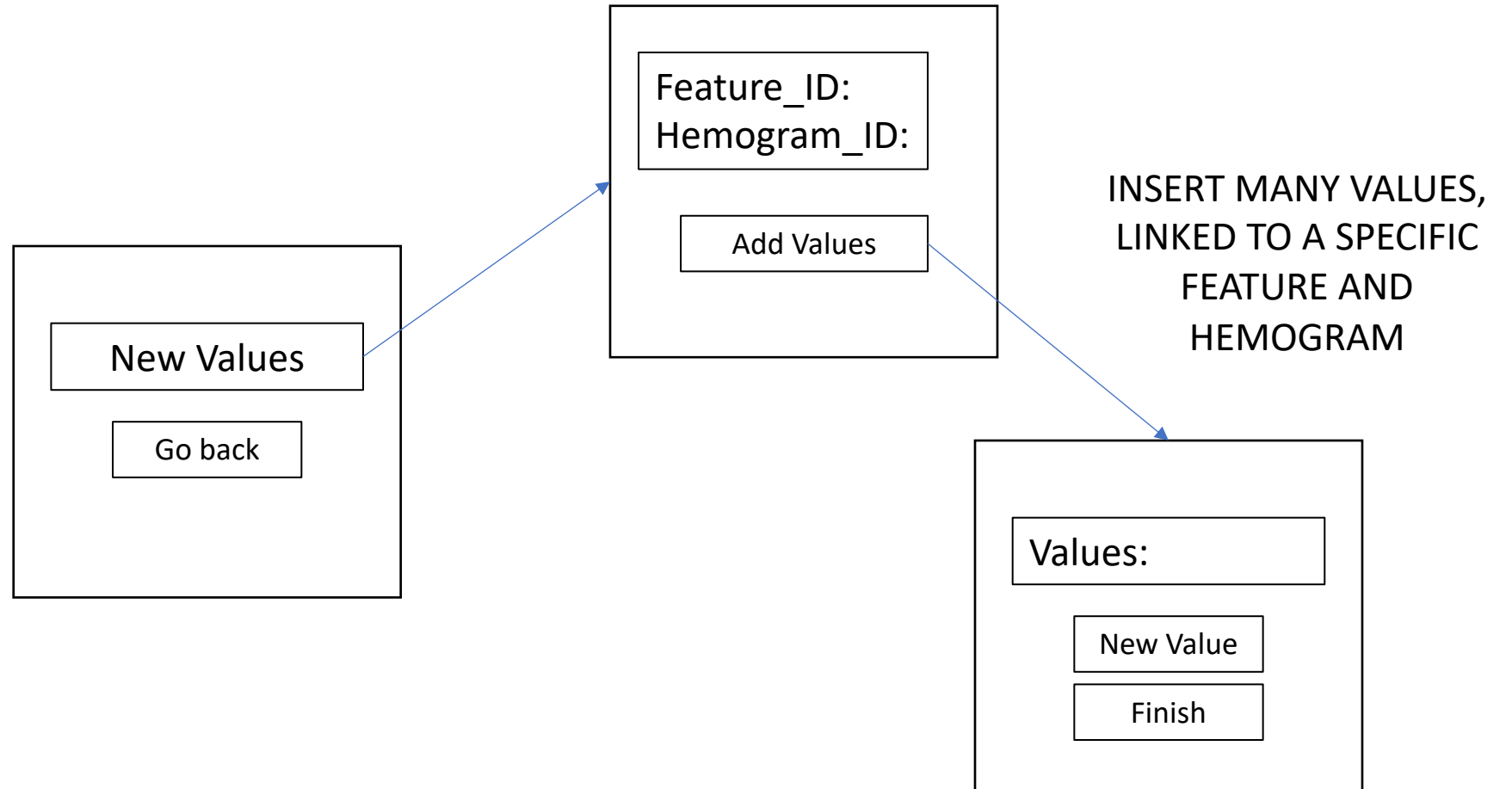
- Leukocytes → MIN: 4.8, MAX: 10.8
- Hemoglobin → MIN: 12, MAX: 16
- ...

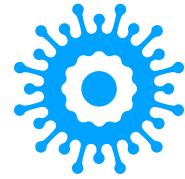
SQL → CREATE & INSERT

FEATURE VALUES

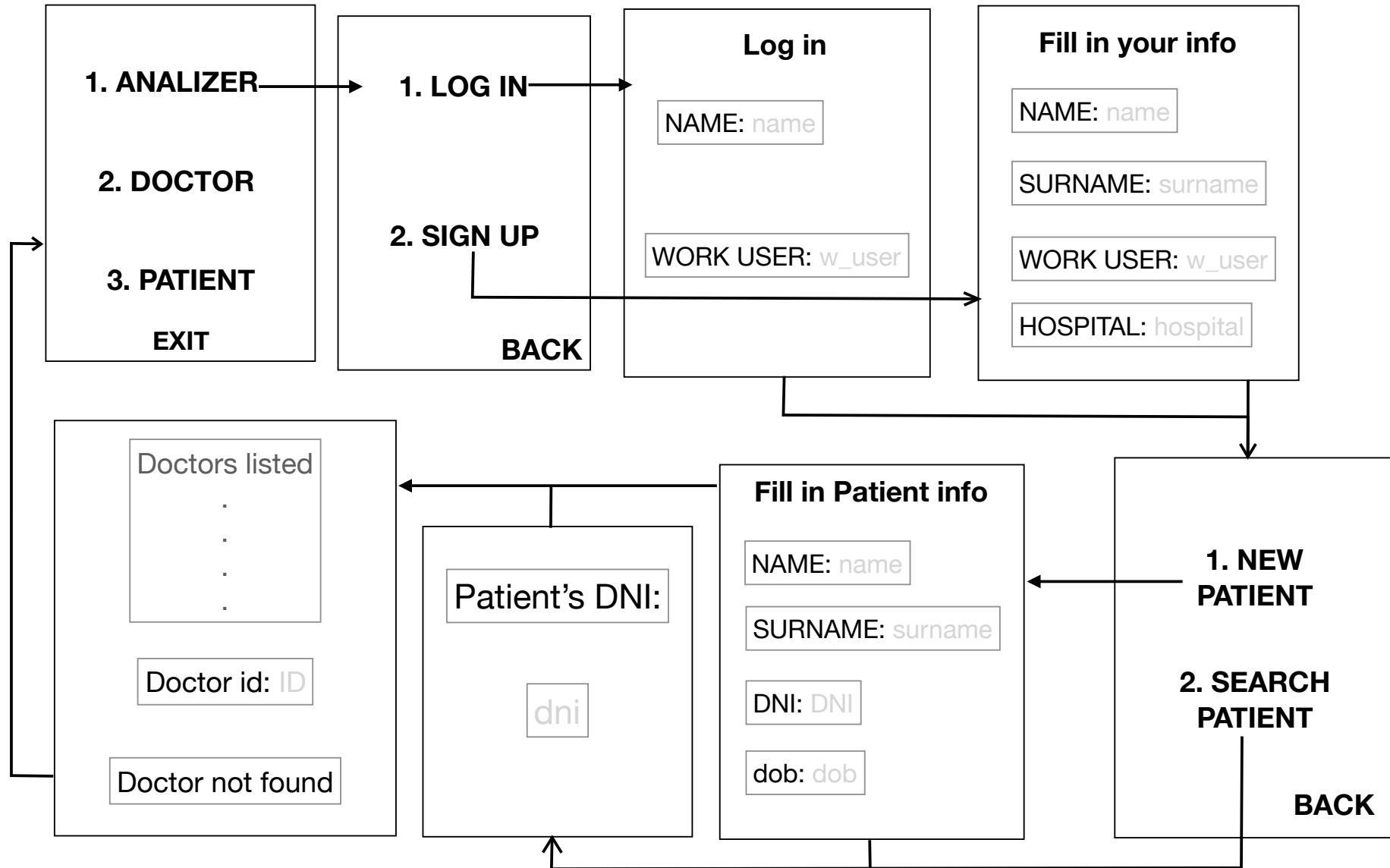
- ID
- Value
- Feature_ID
- Hemogram_ID

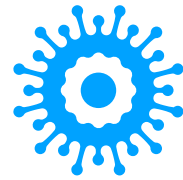
*This table will be adding the values and linking the features with an specific hemogram.





ANALIZER MENU





ANALIZER MENU

CREATE HEMOGRAM

CREATE HEMOGRAM

DATE: insert date

Leukocytes: insert value

Erythrocytes: insert value

Hemoglobin: insert value

Hematocrit: insert value

Platelets: insert value

Cholesterol: insert value

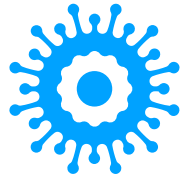
Cholesterol LDL: insert value

Triglycerides: insert value

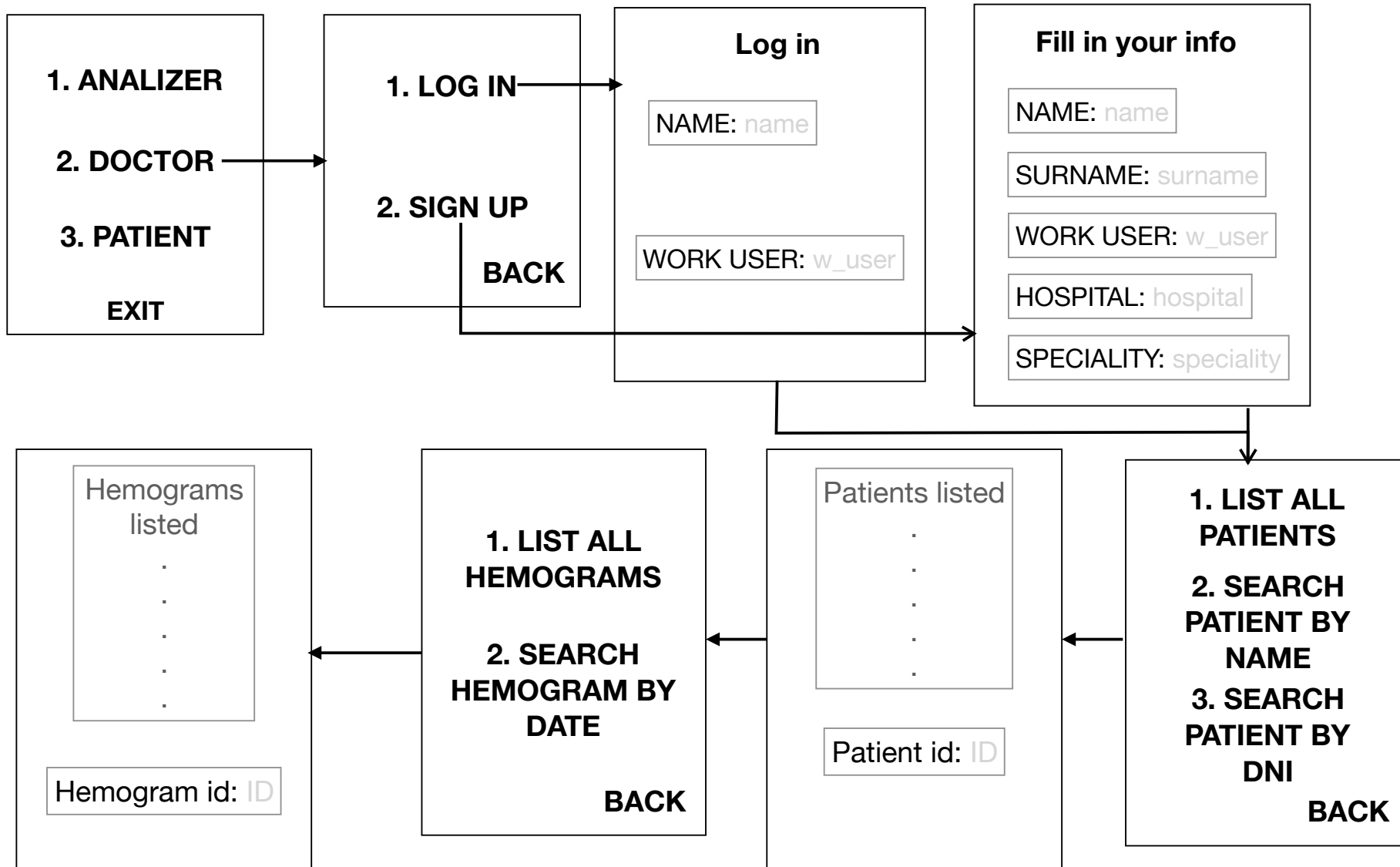
Cholesterol HDL: insert value

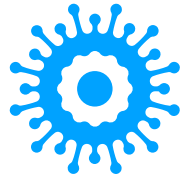
Glycemia: insert value

CREATE



DOCTOR MENU





DOCTOR MENU

READ HEMOGRAM/WRITE COMMENT

READ HEMOGRAM

Leukocytes: value

DATE: date

Erythrocytes: value

Hemoglobin: value

Hematocrit: value

Platelets: value

Cholesterol: value

Cholesterol LDL: value

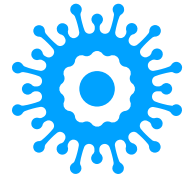
Triglycerides: value

Cholesterol HDL: value

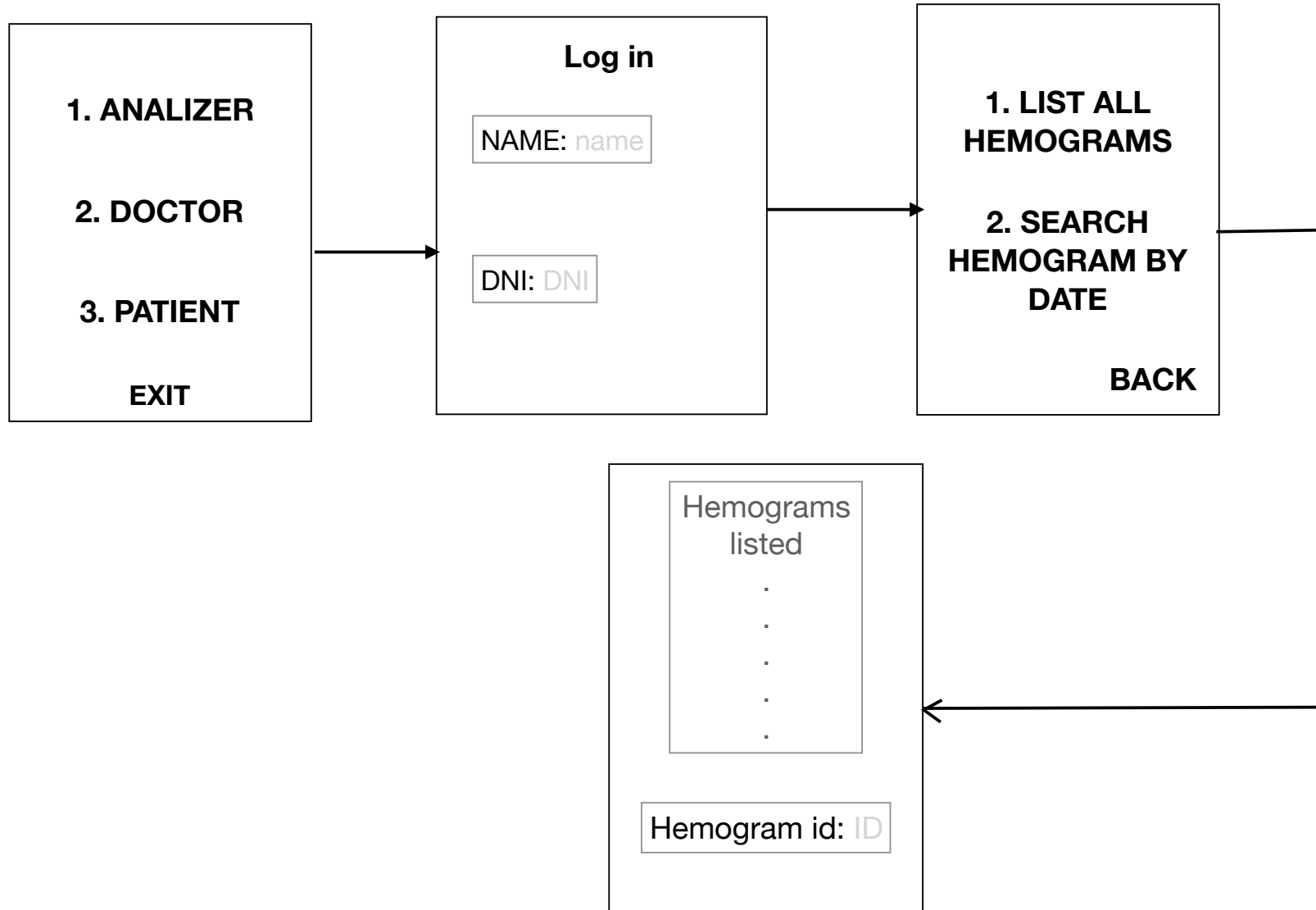
Glycemia: value

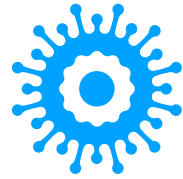
SPACE
FOR
COMMENTS

SAVE



PATIENT MENU





PATINET MENU

READ HEMOGRAM

READ HEMOGRAM

Leukocytes: value DATE: date

Erythrocytes: value

Hemoglobin: value

Hematocrit: value

Platelets: value

Cholesterol: value

Cholesterol LDL: value

Triglycerides: value

Cholesterol HDL: value

Glycemia: value

COMMENTS

BACK



That's all Folks!