Entity-Relationship Diagram
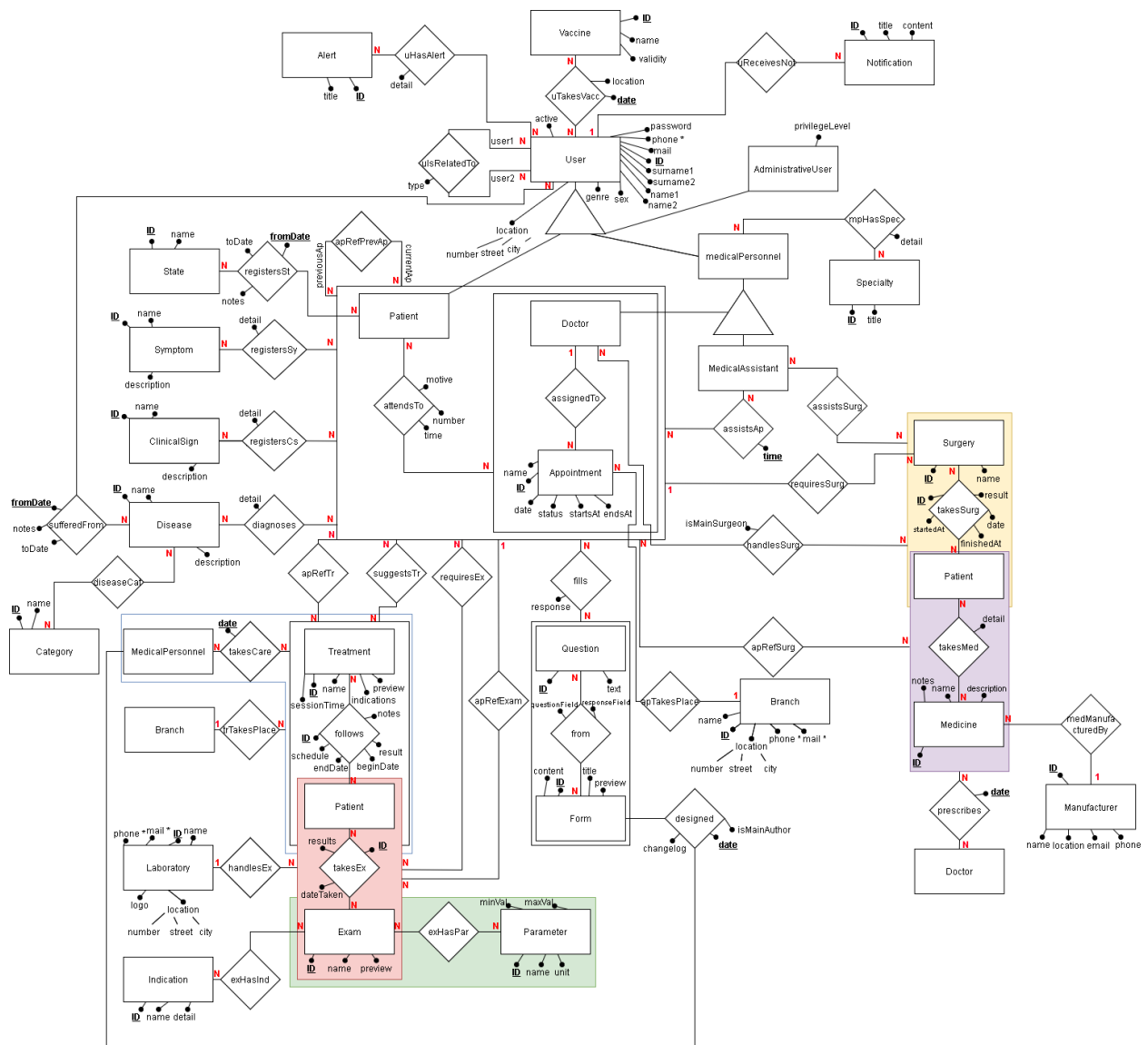
Normalized Schema

User (**CI**, password, name1, name2, surname1, surname2, sex, gender, email, phone, locationCity, locationStreet, locationNumber)

uReceivesNot (**IDNot,** CIUser)

uHasAlert(**IDAlert, CIUser**, detail)

uTakesVaccine (**IDVacc, CIUser, date**)

uIsRelatedTo (**CIUser1, CIUser2**, type)

uSufferedFrom (**CIU, IDDisease, fromDate**, toDate, notes)

UserPhone (**CI, phone**)

Patient (**CI**)

attendsTo (**CIPa, IDAp**, motive, number, time)

registersSt(**CIPa, IDState, fromDate**, toDate, notes)

follows (**CIPa, IDTreatment, IDFollows,** beginDate, endDate, schedule, result)

takesMed (**CIPa, IDMed**, detail)

takesEx (**CIPa, IDExam, IDExTaken, CIPa**, dateTaken, results)

takesSurg (**CIPa, IDSurg, IDTakenSurg,** date, startedAt, finishedAt, result)

MedicalPersonnel (**CI**)

mpHasSpec (**CIMp, IDSpec**, detail)

takesCare (**CIMP, IDTreatment, IDFollows, CIPa, date**)

designed (**IDForm, CIMP**, isMainAuthor, date, changelog)

Specialty (**ID**, title)

Doctor (**CI**)

assignedTo (**IDAp,** CIDoc)

handlesSurg (**IDSurg, IDTakenSurg, CIPatient, CIDoc**)

prescribes (**IDMed, CIPatient, CIDoc, date**)

MedicalAssistant (**CI**)

assistsAp (**IDAp, CIPa, CIMA, time**)

assistsSurg (**IDSurg, IDtakenSurg, CIPatient, CIMA**)

Administrative (**CI**, privilegeLevel)

Form (**ID,** title, preview, content)

from (**IDQuestion, IDForm**, questionField, responseField)

Question (**ID,** text)

Appointment (**ID,** name, fecha, state, timeBegins, timeEnds)

apTakesPlace (**IDAp**, IDBranch)

apRefPrevAp (**IDCurrAp, IDPrevAp, CIPaPrevAp, CIPaCurrAp**)

apRefExam (**IDExam, IDTakenExam, CIPaExam, CIPaAp, IDAp**)

apRefTr (**IDTreatment, IDFollows, CIPaTr, CIPaAp, IDAp**)

registersSy (**IDAp, CIPaAp, IDSy**, detail)

registersCs (**IDAp, CIPaAp, IDCs**, detail)

diagnoses (**IDAp, CIPaAp, IDDis**, detail)

fills (**IDAp, CIPa, IDQuestion**, response)

suggestsTr(**IDTreatment, IDFollows, CIPaTr, CIPaAp, IDAp**)

requiresEx (**IDExam, IDTakenExam, CIPaExam, CIPaAp, IDAp**)

Branch (**ID,** name, phoneNumber, locationCity, locationStreet, locationNumber)

trTakesPlace (**IDTreatment, IDFollows, CIMP, CIPa, date**, IDBranch)

Symptom (**ID,** name, description)

ClinicalSign (**ID,** name, description)

Disease (**ID,** name, description)

diseaseCat (**IDDisease, IDCat**)

Category (**ID,** name)

Treatment (**ID,** name, preview, indications, avgSessionTime)

Surgery (**ID,** name)

Medicine (**ID,** name, description, notes)

manufacturedBy(**IDMed**, IDManufacturer)

Manufacturer (**ID,** name, locationCountry, locationCity, locationStreet, locationNumber, email, phoneNumber, logo)

Vaccine (**ID,** name, validity)

Exam (**ID,** name, notes)

exHasPar(**IDEx, IDParam**)

exHasInd(**IDEx, IDInd**)

Parameter (**ID,** name, measureUnit, refMinValue, refMaxValue)

Indication (**ID,** name, description)

Laboratory (**ID,** name, phoneNumber, email, locationCountry, locationCity, locationStreet, locationNumber, email, phoneNumber, logo)

handlesEx(**IDEx, IDExTaken, CIPa,** IDLab)

State (**ID,** name)

Alert (**ID,** title)

Notification (**ID,** title, content)