STRONG ENITITIES

PAN(uniqueDomain, phoneNumber);

equipment(serialNumber, manufacturer, model);

seriesOfData(uniqueID, name, URL)

IS A’s

wearableDevice(serialNumber, manufacturer, description);

inputSensor(serialNumber, manufacturer)

serialNumber, manufacturer : FK(wearableDevice);

actuator(serialNumber, manufacturer)

serialNumber, manufacturer : FK(wearableDevice);

person(citizenID);

patient(citizenID);

citizenID : FK(person);

doctor(professionalID, citizenID);

citizenID: FK(person);

elementsOfData(uniqueID, sequentialIndex);

uniqueID: FK(seriesOfData);

image(uniqueID, sequentialIndex);

uniqueID: FK(seriesOfData);

sequentialIndex: FK(elementsOfData);

timeSeries(uniqueID, sequentialIndex);

uniqueID: FK(seriesOfData);

sequentialIndex: FK(elementsOfData);

WEAK ENTITIES

readings(serialNumber, manufacturer, readingTimeStamp);

serialNumber, manufacturer: FK(wearableDevice);

data(serialNumber, manufacturer, readingTimeStamp, dataTimeStamp, value, name);

serialNumber, manufacturer: FK(wearableDevice);

readingTimeStamp: FK(readings);

settings(serialNumber, manufacturer,settingsTimeStamp, value, name);

serialNumber, manufacturer: FK(wearableDevice);

examPrescription(citizenID, professionalID, timeStampExam);

citizenID: FK(patient);

professionalID: FK(doctor);

studies(citizenID, professionalID, timeStampExam, description, date)

citizenID: FK(patient);

professionalID: FK(doctor);

timeStampExam: FK(examPrescription)

rectanglesOfInterest(uniqueID, sequentialIndex, x1, x2, y1, y2);

uniqueID: FK(seriesOfData);

sequentialIndex: FK(elementsOfData);

intervalOfInterest(uniqueID, sequentialIndex, t1, t2);

uniqueID: FK(seriesOfData);

sequentialIndex: FK(elementsOfData);

AGGREGATION

INSIDE

follows(citizenID, professionalID);

OUTSIDE

prescribed(citizenID, professionalID, timeStampExam);

RELATIONSHIPS

reads(serialNumber, manufacturer, readingTimeStamp);

receives(serialNumber, manufacturer, settingsTimeStamp);

connected(serialNumber, manufacturer, uniqueDomain, citizenID);

uses(description, date, serialNumber, equipmentManufacturer);

collects(description, date, uniqueID);