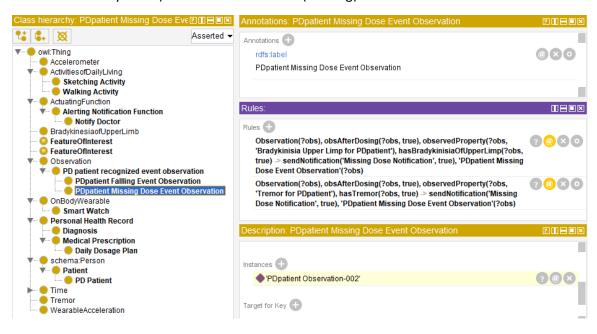Class hierarchy and Rules for recognizing missing dose event observations (based on detected Tremor and Bradykinisia). Notification to doctor (alerting) is fired.

Class hierarchy: PDpatient Missing Dose Eve

Asserted

- owl:Thing
  - Accelerometer
  - ActivitiesofDailyLiving
    - Sketching Activity
    - Walking Activity
  - ActuatingFunction
    - Alerting Notification Function
      - Notify Doctor
  - BradykinesiaofUpperLimb
  - FeatureOfInterest
  - FeatureOfInterest
  - Observation
    - PD patient recognized event observation
      - PDpatient Fallling Event Observation
      - PDpatient Missing Dose Event Observation
  - OnBodyWearable
    - Smart Watch
  - Personal Health Record
    - Diagnosis
    - Medical Prescription
      - Daily Dosage Plan
  - schema:Person
    - Patient
      - PD Patient
  - Time
  - Tremor
  - WearableAcceleration

Annotations: PDpatient Missing Dose Event Observation

Annotations

rdfs:label
PDpatient Missing Dose Event Observation

Rules:

Rules

Observation(?obs), obsAfterDosing(?obs, true), observedProperty(?obs, 'Bradykinisia Upper Limp for PDpatient'), hasBradykinisiaOfUpperLimp(?obs, true) -> sendNotification('Missing Dose Notification', true), 'PDpatient Missing Dose Event Observation'(?obs)

Observation(?obs), obsAfterDosing(?obs, true), observedProperty(?obs, 'Tremor for PDpatient'), hasTremor(?obs, true) -> sendNotification('Missing Dose Notification', true), 'PDpatient Missing Dose Event Observation'(?obs)

Description: PDpatient Missing Dose Event Observation

Instances
'PDpatient Observation-002'

Target for Key

Individuals and observation assertions for a patient (PDpatient-002).

Individuals: PDpatient Observation-(

- Bradykinisia Upper Limp for PDpatient
- Daily Dosage Plan 3 Times
- Daily Dosage Plan 4 Times
- Falling Notification
- Missing Dose Notification
- Patient Movement
- PDpatient Observation-001
- PDpatient Observation-002
- PDpatient-001
- PDpatient-001 Health Record
- PDpatient-002
- PDpatient-002 Health Record
- Samsung Galaxy Watch 46MM-SM-R800
- Samsung Sensor Accelerometer 22
- SketchingActivity-01
- SketchingActivity-02
- Time of First Dosage
- Time of Forth Dosage
- Time of Second Dosage
- Time of Third Dosage
- Tremor for PDpatient
- Wearable Acceleration for PD movement

Annotations: PDpatient Observation-002

Annotations

rdfs:label
PDpatient Observation-002

Description: PDpatie

Types
- Observation
- 'PDpatient Missing Dose Event Observation'

Same Individual As

Different Individuals

Property assertions: PDpatient Observation-002

Object property assertions
- observedProperty 'Tremor for PDpatient'
- observedProperty 'Bradykinisia Upper Limp for PDpatient'
- observedProperty 'Wearable Acceleration for PD movement'
- madeBySensor 'Samsung Sensor Accelerometer 22'
- hasFeatureOfInterest PDpatient-002
- hasFeatureOfInterest 'Patient Movement'

Data property assertions
- hasBradykinisiaOfUpperLimp true
- obsAfterDosing true
- hasTremor false
- 'dose time' "2022-08-04T12:42:12.150Z"^^xsd:dateTime