This represents the structure behind the process of the Project structure concerning the alert systels. The process startes with the data storage that retrieves data that is saved in the hospitals database. This is then analysed by the Alert Generator which will trigger any alert if there is an anomaly int the data. If an alert occures , the alert manager will scan to find which nurse has that specific patient as their care and will call upon it to make sure the right nurse tends to the right patient. This is why the nurses contain a series of patients as well as their records and what they should do for each condition.

AlertManager

- Nurses : ArrayList<Nurse>

+getNurseForPatient(int : patientId) :
Nurse

Nurse

- nurseId : int
-patient : ArrayList<Patient>

+getID() : int
+getPatientList():
ArrrayList<Patient>

USES

1..*

1..*

DataStorage

-DataReader = reader
-patient = Map(Integer , patient)

+addPatientData(int patientId , double measurementValue, String
recordType , long timestamp) : List<PatientRecord>
+getRecords (int patientId, long startTime , long
endTime):List<PatientRecords
+main(String[] args) : void

USES

Patient

- patientId: int
-patiebtRecords : List<PatientRecords>

+addRecord : double measurementValue, String
recordType, long timestamp
+Patient : int patients
+getRecords(Long startTime , Long
endTime) : List<PatientRecord

USES

0..*

0..*

Contains

PatientRecord

- patientId : int
-recordType : String
-measurementValue :double
-timestamp : long

+PatientRecord(int patientId , double
measurementValue, String recordType, long
timestamp) : void
+getPatientId() : int
+getRecordType : String
+getMeasurementValue() : double
+getTimeStamp() : long

AlertGenerator

- dataStorage : DataStorage

+ AlertGenerator(DataStorage dataStorage) : void
+ evaluateData (Patient patient) : void
+ triggerAlert (Alery alert) : void

uses

Alert

- patientId : String
- condition : String
- timestamp : long

+ Alert(String patientId ,
String condition , long timestamp) : void

+ getPatientId ( ) : String patientId
+ getCondition ( ) : String condition
+ getTimestamp ( ) : long timestamp