UML CLASS DIAGRAM FOR PROJECT TASK 4

PatientRecord

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

+ getPatientId(): int
+ getMeasuremetnValue(): double
+ getRecortType(): String
+getTimestamp(): long

Alert

-patientID: String
-condition: String
-timestamp: long

+ getPatientId(): String
+ getCondition(): String
+ getTimestamp(): long

AlertGenerator

- dataStorage: DataStorage

+evaluateData(patient: Patient): void
- checkBloodPressureAlerts(records: List<PatientRecords>): void
- checkBloodSaturationAlerts(records: List<PatientRecords>): void
-checkHypotxemiaAlert(records: List<PatientRecords>): void
-triggerAlert(alert: Alert): void

Patient

- patientId: int
- patientRecords: List<PatientRecord>

+ addRecord(measurementValue: fouble,
recordType: String, timestamp: long): void
+ getRecords(startTime: long, endTime:
long, recordType: String):
List<PatientRecord>
+ getRecords(startTime: long, endTime:
long): List<PatientRecord>
+ getRecords(): List<PatientRecord>

DataStorage

- patientMap: Map<Integer, Patient>

+ addPatientData(patientId: int,
measurementValue: double, recordType:
String, timestamp: long): void
+ getRecords(patientId: int, startTime:
long, endTime: long, recordType: String):
List<PatientRecord>
+ getAllPatients(): List<Patient>

FileDataReader

- filePath: String

+readData(dataStorage: DataStorage):
void

<<IDataReader>>

-readData(dataStorage: DataStorage):
void