## -patientld: String -vitalType: String **AlertGenerator** -lowerLimit: double -dataStorage: DataStorage -upperLimit: double +evaluateData(patient: Patient): +isExceeded(value: double): void boolean -triggerAlert(alert: Alert): void **DataStorage** -patientMap: Map<Integer, Patient> AlertManager +addPatientData(patientId: int, measurementValue: double, -activeAlerts: List<Alert> recordType: String, timestamp: long): void +sendAlert(alert: Alert): void +getRecords(patientId: int, +getActiveAlerts(): List<Alert> startTime: long, endTime: long): List<PatientRecord> +getAllPatients(): List<Patient> **Alert** ° 0..\* -patientld: String **Patient** -condition: String 0..\* -timestamp: long -patientId: int -patientRecords: +getPatientId(): String List<PatientRecord> +getCondition(): String +getTimestamp(): long +addRecord(measurementValue: double, recordType: String, timestamp: long): void +getRecords(startTime: long, endTime: long): List<PatientRecord> 0..\* **PatientRecord** -patientId: int -recordType: String -measurementValue: double -timestamp: long +getPatientId(): int +getMeasurementValue(): double +getTimestamp(): long

+getRecordType(): String

AlertThreshold