**Scenarios for Add to Report**

* A camera detects motion.

System adds to the report that the camera detected motion at a certain time then saves the report.

* Smoke Detector detects that there is too much smoke.

System adds to the report that there was too much smoke at a certain time then saves the report.

* Gas Leak Detector detects a gas leak somewhere inside the house.

System adds to the report that there was a gas leak at a certain time then saves the report.

* An intrusion detector detects an intrusion into the house.

System adds to the report that there was an intrusion at a certain time then saves the report.

**Essential Use Case: Add to Report**

**Actor Intentions System Responsibility**

1) Sensor tripped or alarm triggered. 2) System adds whatever happened to the report.

3) System saves the report.

**Concrete Use cases: Add to Report**

**Actor Intentions System Responsibility**

1) Smoke Detector is triggered. 2) System adds that the Smoke Detector was triggered, and the time it was triggered.

3) System saves the report.

**Actor Intentions System Responsibility**

1) Gas Leak Detector is triggered. 2) System adds that the Gas Leak Detector was triggered, and the time it was triggered.

3) System saves the report.

**Actor Intentions System Responsibility**

1) A camera detects motion. 2) System adds that one of the cameras has detected motion.

3) System saves the report.

**Actor Intentions System Responsibility**

1) Intrusion Detector detects an

intrusion. 2) System adds that there was an intrusion, and the time the intrusion occurred.

3) System saves the report.

**High-level System Sequence Diagram:**

A picture containing bottle, text, indoor

Description automatically generated

**Detail System Sequence Diagrams:**

A close up of text on a black background

Description automatically generated

A picture containing bottle, text

Description automatically generated

A picture containing bottle, text

Description automatically generated

A picture containing bottle, text, indoor

Description automatically generated