

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

- 1) Sensor tripped or alarm triggered.

System Responsibility

- 2) System adds whatever happened to the report.
- 3) System saves the report.

Concrete Use cases: Add to Report

Actor Intentions

- 1) Smoke Detector is triggered.

System Responsibility

- 2) System adds that the Smoke Detector was triggered, and the time it was triggered.
- 3) System saves the report.

Actor Intentions

- 1) Gas Leak Detector is triggered.

System Responsibility

- 2) System adds that the Gas Leak Detector was triggered, and the time it was triggered.
- 3) System saves the report.

Actor Intentions

- 1) A camera detects motion.

System Responsibility

- 2) System adds that one of the cameras has detected motion.
- 3) System saves the report.

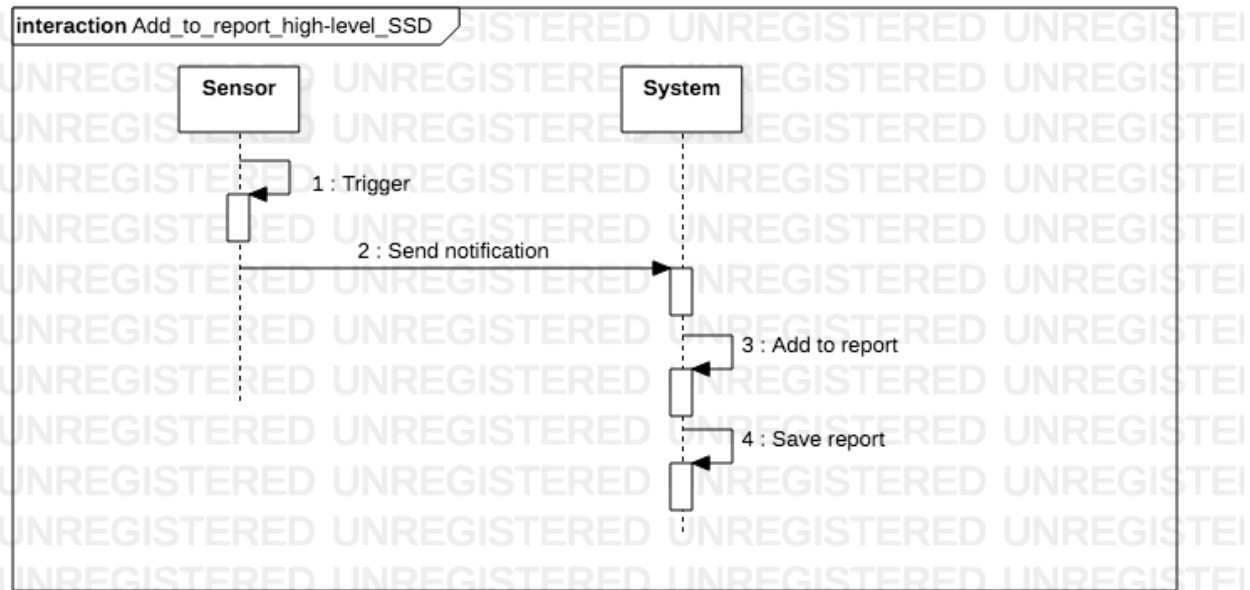
Actor Intentions

- 1) Intrusion Detector detects an intrusion.

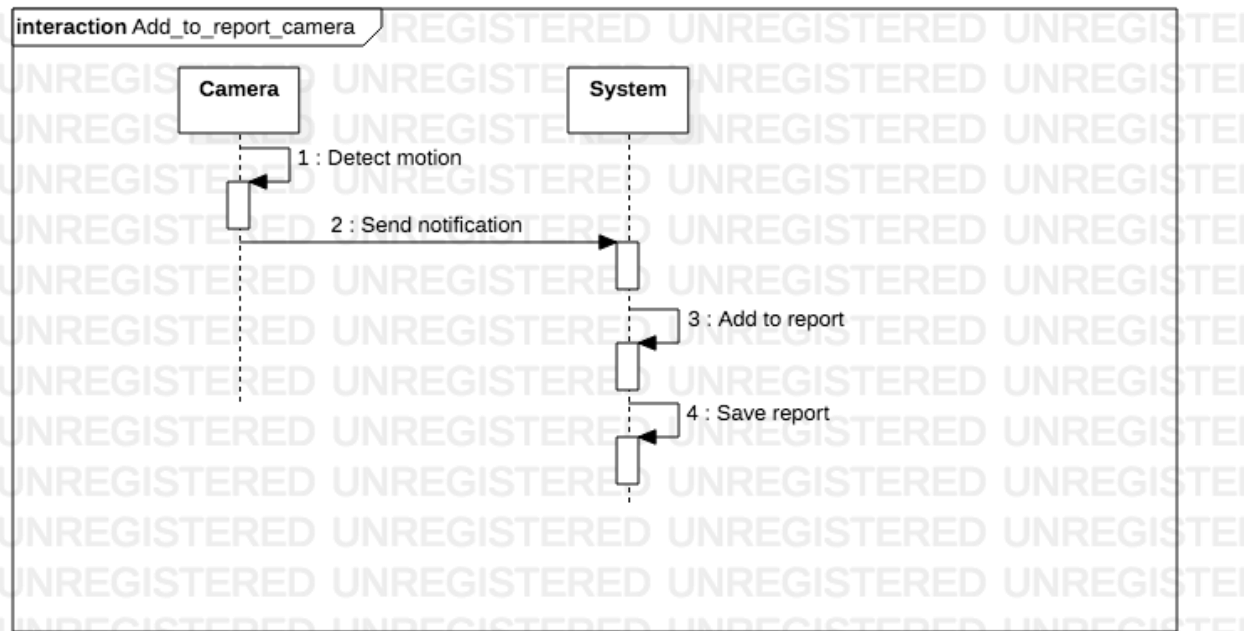
System Responsibility

- 2) System adds that there was an intrusion, and the time the intrusion occurred.
- 3) System saves the report.

High-level System Sequence Diagram:



Detail System Sequence Diagrams:



interaction Add_to_report_gas_leak

Gas Leak Detector

System

1 : Detect gas leak

2 : Send notification

3 : Add to report

4 : Save report

interaction Add_to_report_intrusion_detector

Intrusion Detector

System

1 : Detect intrusion

2 : Send notification

3 : Add to report

4 : Save report

