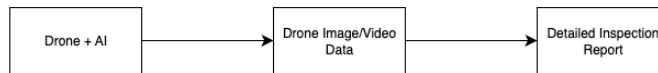# User Stories

- As an inspector I want to automatically identify damages on an exterior of a building, so I can create a more accurate inspection report and save time.
- As a property manager, I want to receive alerts and notifications about new damage on my buildings, so I can contact and schedule maintenance if needed.
- As a drone operator I want to get a clear visual output, so I can guide the drone to capture more detailed imagery of the issue.
- As a property manager I want to have a record of the building's condition over time, so I can track the issues and justify repair cost with insurance.
- As an insurance claim adjuster, I want to receive a verified report of damage, so I can process claims faster and more accurate.
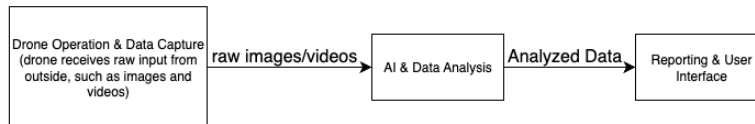
Diagrams

- **Project Title:** Automated Drone-Based Building Damage Detection
- **Goal Statement:** To use an AI-powered drone system to inspect buildings, detect exterior damage, and generate a comprehensive report for building inspectors and property managers.

D0:

| Drone + AI | → | Drone Image/Video Data | → | Detailed Inspection Report |

D1:

| Drone Operation & Data Capture (drone receives raw input from outside, such as images and videos) | raw images/videos → | AI & Data Analysis | Analyzed Data → | Reporting & User Interface |

D2:

AI & Data Analysis Module

Raw Image/Video Data → | Image Pre-processing | → | Damage Detection & Classification | → | Data Annotation & Geo-tagging | Analyzed Damage Data → | Reporting & User Interface |