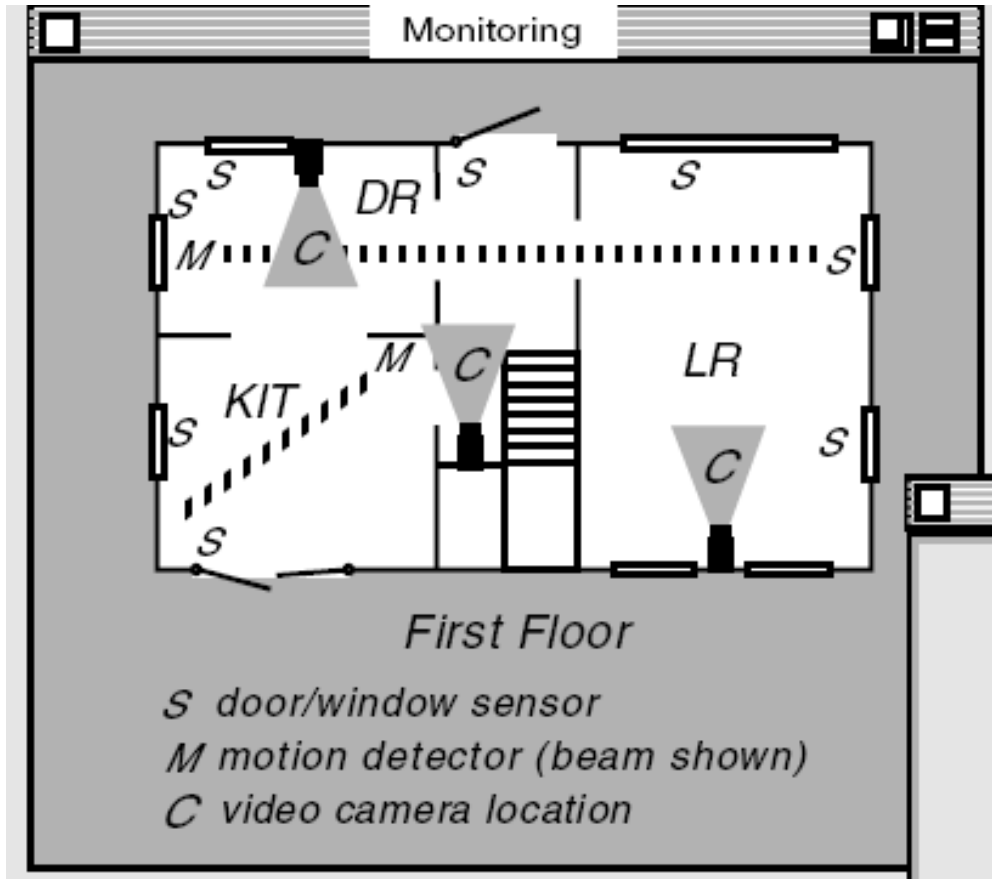


HW Announcement

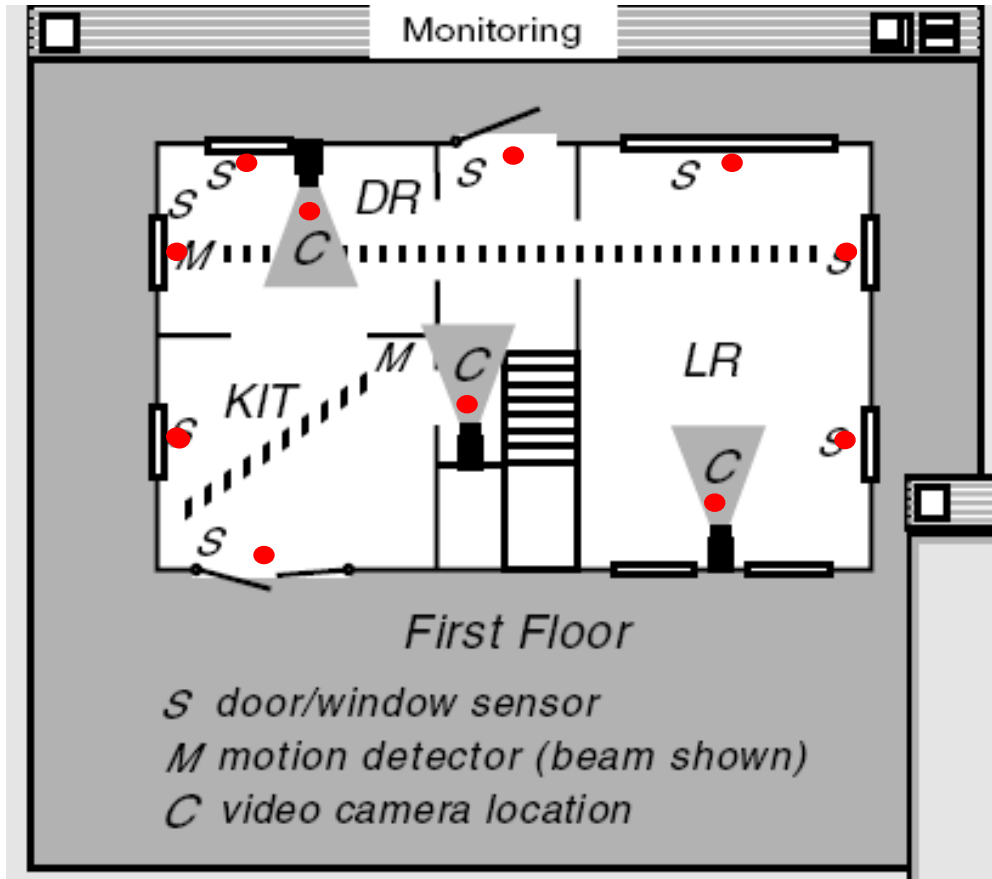
CS 350

Floor Plan



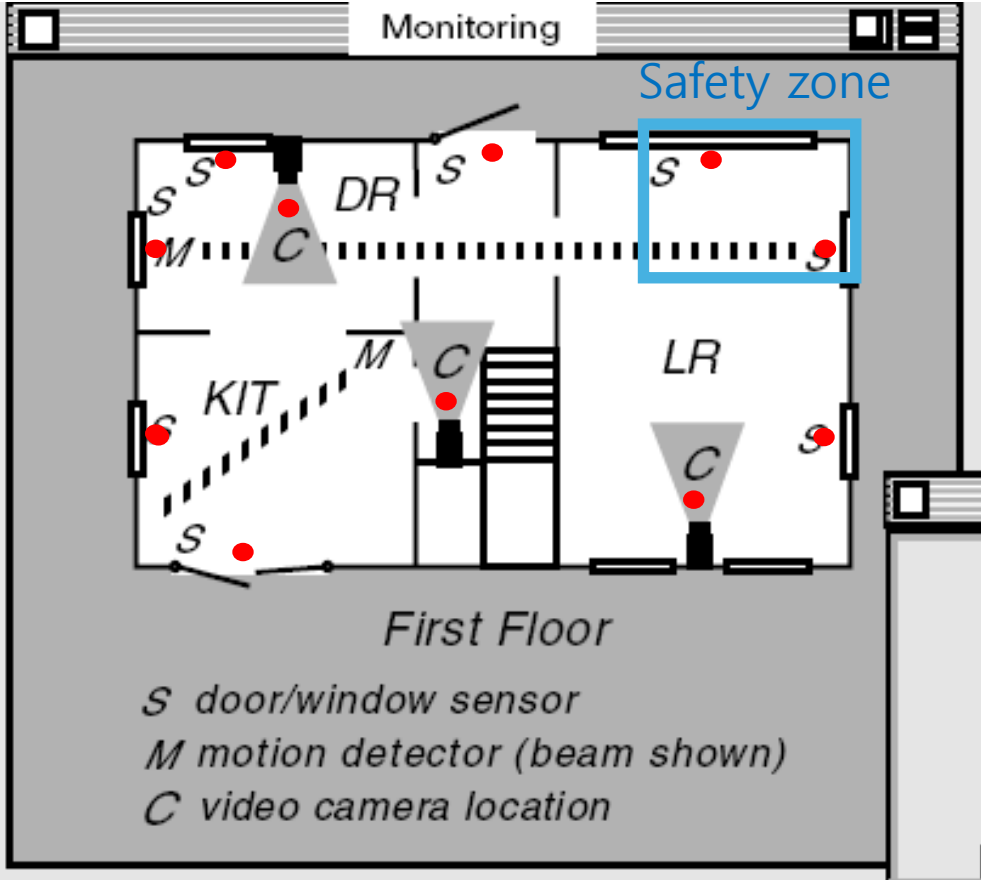
- The system operation is based on the fixed floor plan illustrated in the figure.
- All sensor locations are static and predetermined.

Floor Plan



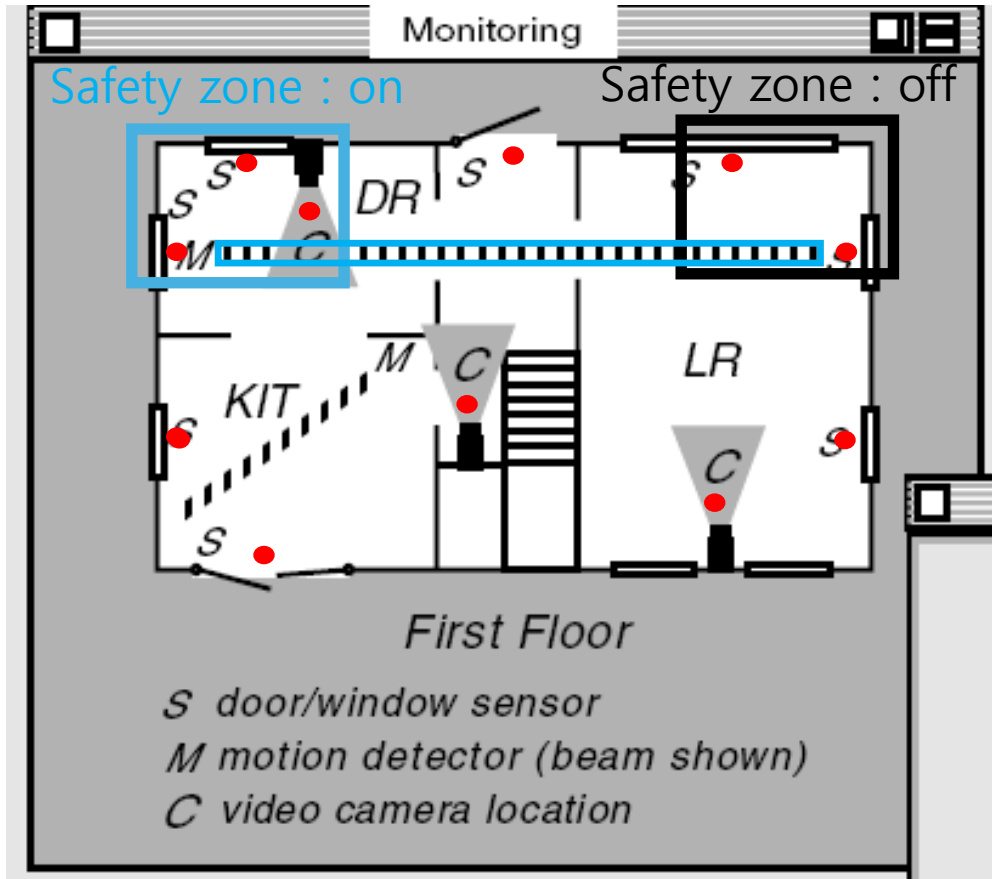
- Safety zones are defined by the inclusion of specific sensors (represented by red dots).

Floor Plan



- Safety zones are defined by the inclusion of specific sensors (represented by red dots).
- A sensor is considered 'included' in a zone even if the zone only covers the sensor point itself, not the entire fixture (e.g., the whole window).

Floor Plan



- For motion sensors, if a safety zone overlaps with any part of the sensor's detection area, the sensor is considered part of that zone.
- Sensor Deactivation Logic: A motion sensor shared by multiple zones will remain active unless all zones it belongs to are deactivated.

For implementation

- Virtual devices representing the sensors will be provided during the implementation stage.
- Simple, scenario-based test cases will be provided for validation during implementation.