Non-Functional Requirements

1. The continuous video stream captured from CCTV cameras should be processed quickly and efficiently.
2. Probability of error in object detection should be zero or very low.
3. No relevant footage should be lost due to error in storing under any circumstance.
4. Testability: High scale testing will be done before the deployment of the application.
5. Robustness: Highly efficient and effective in all terms.
6. Reliability: Accurate feedback to be generated.
7. Portability: Easy user interface.
8. Maintainability: Easily maintainable.
9. Fault tolerance: If the device gets disconnected, warning message should be generated.
10. Extensibility: New features can be added in future if needed.
11. Compliance: Action performed with minimum latency.
12. Accessibility: Easily accessible.

Functional Requirements

1. To detect and extract relevant parts from existing CCTV footage based on specified object & motion.
2. To interface with CCTV cameras and record/store footage only where there is motion or activity relevant to us.
3. Upload the footage on cloud while recording.
4. Make the part of footage relevant to a user accessible on cloud for a given period of time.
5. Store the footage locally if internet is not available.