



Data Types Collected

- Distance (Ultrasonic Ranger) -> Telemetry Upload
- Button status (LED Button) -> Telemetry Upload
- Video (Camera) -> Broad Cast Live Stream

Security and Privacy

- YouTube Account: Password protected + Unique to specific device + Unlisted URL
- ThingsBoard Account: Password protected + Unique to specific device

Network Protocols & Communication

- Telemetry Upload: MQTT
- Broadcast Live Stream: RTMP
- View Dashboard: HTTP
- Edge/Gateway Node -> Cloud Node: Wi-Fi
- End Device Web Browser -> Cloud Node: Wi-Fi

Components

Sensors

- Camera
- LED Button (Button aspect)
- Ultrasonic Ranger

Actuators

- LCD Screen
- LED Button (LED aspect)
- Buzzer