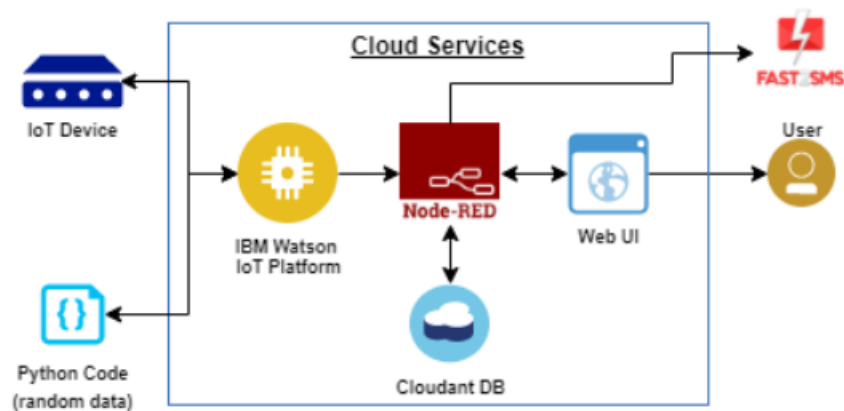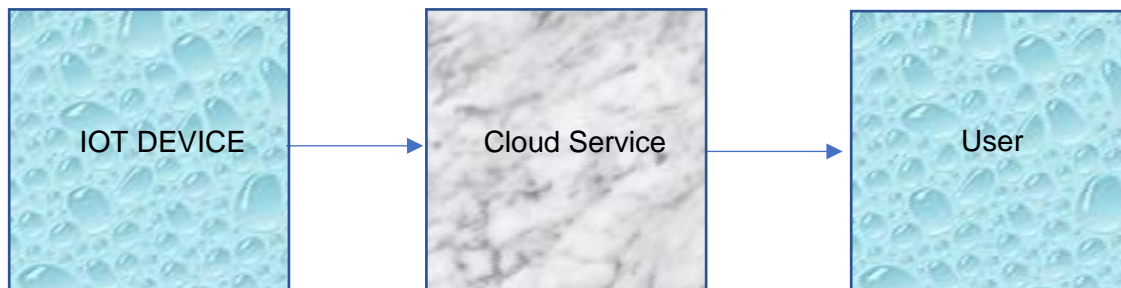# SOLUTION ARCHITECTURE

Design:

- Hole location detection in pipeline.
- Getting the location of the hole in the pipeline.
- Alerts the authorized person to fix the hole location whenever the hole is identified.
- Hole location of the pipeline can be monitored through a web App.
- We can view the location of every bin in the web application by sending GPS location from the device.

Software and system required:
- Python IDLE
- 4GB processor and OS-Windows/Linux/MAC

Block diagram:

IOT Device

```
LASER SENSOR  →  ARDUINO  ←  GPS/GSM
```

Cloud service:

```
IBM Watson  →
                 Node
                 red      ←  Web UI
Geofence    →
                          ←  Cloud DB
```