

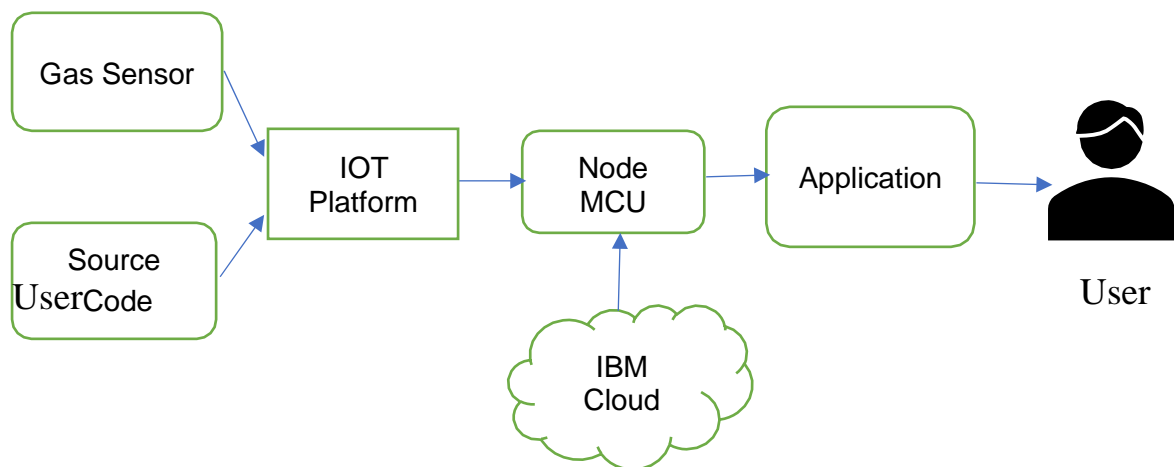
## Project Design Phase-I Solution Architecture

|               |                               |
|---------------|-------------------------------|
| Date          | 16 September 2022             |
| Team ID       | PNT2022TMID13963              |
| Project Name  | Gas Leakage Monitoring System |
| Maximum Marks | 4 Marks                       |

### SOLUTION ARCHITECTURE:

- ✓ In most industries, one of the key parts of any safety plan for reducing risks to personnel and plant is the use of early-warning devices such as gas detectors.
- ✓ These can help to provide more time in which to take remedial or protective action.
- ✓ They can also be used as part of a total, integrated monitoring and safety system for an industrial plant.
- ✓ Rapid expansion of oil and gas industry leads to gas leakage incidents which are very serious and dangerous. Solutions need to be found out at least to minimize the effects of these incidents since gas leaks also produce a significant financial loss.
- ✓ The challenges are not only to design a prototype of the device that can only detect but also automatically respond to it whenever the leakage occurs.

### SOLUTION ARCHITECTURE DIAGRAM:



**Fig1., ARCHITECTURE & DATA FLOW OF NEWS TRACKER APPLICATION**