

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	26 October 2022
Team ID	PNT2022TMID02619
Project Name	Project – Industry-Specific Intelligent Fire Management System
Maximum Marks	4 Marks

Technical Architecture:

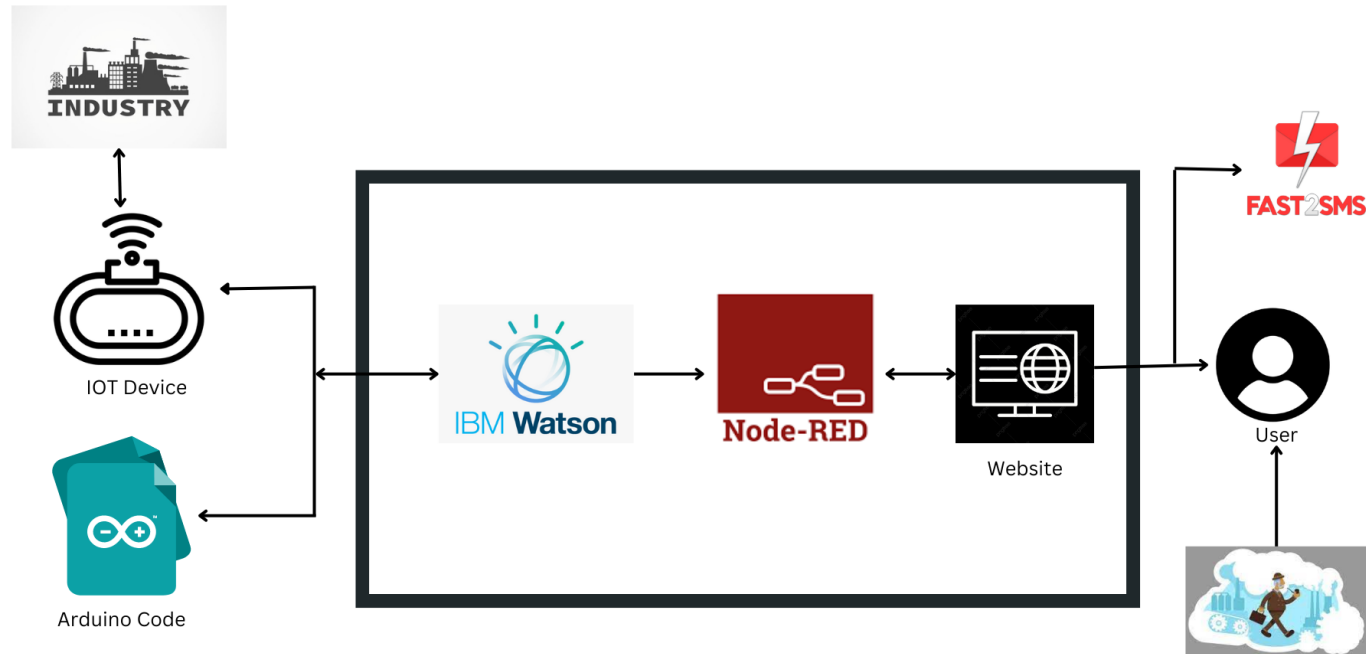


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI, Node-RED, MIT app.	IBM IOT Platform, IBM Node red, IBM Cloud.
2.	Application Logic-1	Create IBM Watson IOT platform and create Node-Red service.	IBM Watson, IBM cloud service, IBM node-red.
3.	Application Logic-2	Develop python script to publish and subscribe to IBM IOT platform.	Python.
4.	Application Logic-3	Build a web application using node-red service	IBM Node-Red.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	MIT app Inventor.	MIT License.
2.	Security Implementations	IBM Services.	Encryptions, IBM Controls.
3.	Scalable Architecture	Sensor-IOT cloud based architecture.	Cloud computing.
4.	Availability	Mobile, Laptop.	MIT app.
5.	Performance	Detects the Fire, Gas Leakage and temperature.	Sensors.