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

Date	03 October 2022		
Team ID	PNT2022TMID34240		
Project Name	Project - Natural Disasters Intensity Analysis and Classification using Artificial		
	Intelligence		
Maximum	4 Marks		
Marks			

Technical Architecture:

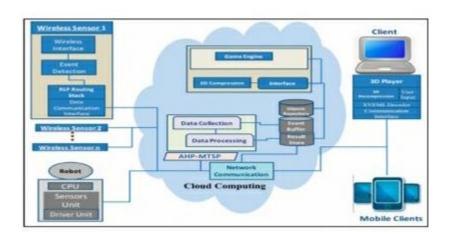


Table-1: Components & Technologies:

S.NO Technology Component Description 1. User Interface Web UI, Node -RED, MIT app IBM Platform, IBM Node red,IBMCloud 2. Application Logic-1 Create IBM Watson Platform IBM Watson, IBM Cloudant and create node-red service service,IBM node-red 3. Application Logic-2 Develop Python script to publish Python and subscribe to IBM a i platform IBM Node-Red 4. Application Logic-3 Build a web application using node-red service 5. Data Type, Configurations etc. MySQL Database 6. Cloud Database Database service on cloud IBM DB2,IBM Cloudant 7. File Storage Developing mobile application to Web UI, Python store and receive the sensors information and to react accordingly External API-1 8. Using this we can monitor the IBM Temperature Monitoring temperature parameters of the API hazardous areas in industrial plants. External API-2 Using this smart beacon devices IBM sensors 9. which will be broadcasting the temperature of that particular area. 10. Machine Learning Model Using this we can derive the object Object Recognition Model recognition model 11. Infrastructure (Server/Cloud) Application Deployment on Local IBM Cloudant, IBM IOT Platform System / Cloud Server Configuration

Table-2: Application Characteristics:

S.NO	Characteristics	Description	Technology
1.	Open source Frameworks	MIT app Inventor	MIT License
2.	Security Implementation	IBM Services	Encryptions,IBM Controls
3.	Scalable Architecture	Sensor-IOT Cloud Based Architecture	Cloud computing and AI
4.	Availability	Mobile, Laptop	MIT App
5.	Performance	Detects the Temperature, Radiation	Sensors