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

Date	17 October 2022	
Team ID	PNT2022TMID54363	
Project Name	ne Project Real-Time river Water Quality	
	Monitoring and Control System	
Maximum Marks	4 Marks	

Technical Architecture:

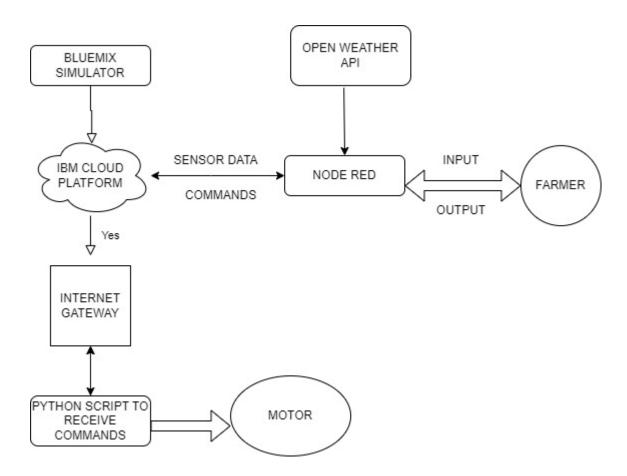


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Received data from sensors	The data collected form the sensor units placed in river sides	ESP32 wifi module
2.	Web interface	The collected data were displayed visually	HTML,CSS, javascript
3.	database	datatype	MySQL
4.	Cloud database	Database service on cloud	IBM cloud
5.	Data storage	File storage requirements	IBM Block storage

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	PH level monitoring	The PH level of river water can be monitored via placing sensors in rivers	PH-sensor
2.	Temperature monitoring	The temperature of river water can be monitored	Temperature sensor
3.	Pollution monitoring	The clarity and purity of river water can be monitored	Conductive sensor
4.	Soil level monitoring	The amount of soil mixed in river water can be measured	Turbidity sensor