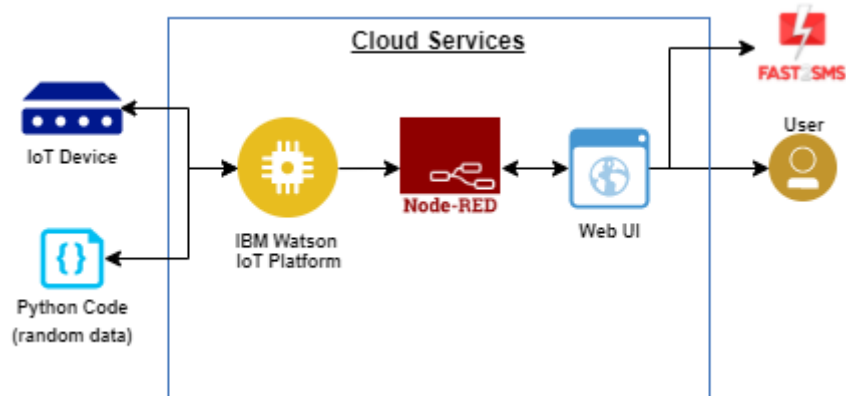


Project Development Phase Delivery of Sprint - 4

Date	13 November 2022
Team ID	PNT2022TMID20460
Project Name	IOT Based Real-Time River Water Quality Monitoring and Control System

Proposed Block Diagram:



As per proposed diagram, the sensor data sent to **IBM Watson Platform**. The data from the IBM Watson Platform has been read by Node-RED and displayed it in a Web UI.

The screenshot shows the IBM Watson IoT Platform dashboard. The 'Recent Events' tab is selected, displaying a table of live data events from a device.

Event	Value	Format	Last Received
Data	["temperature":39.3,"pH":13]	json	a few seconds ago
Data	["temperature":39.3,"pH":3]	json	2 minutes ago
Data	["temperature":39.3,"pH":10]	json	2 minutes ago
Data	["temperature":29.7,"pH":4]	json	2 minutes ago
Data	["temperature":29.7,"pH":4]	json	2 minutes ago

At the bottom of the dashboard, a status bar shows: 10 Disconnected IoT_device Device Nov 11, 2022 11:29 AM.

node-red-zsgyf-2022-11-18.eu-gb.mybluemix.net/red/#flow/acc717a0dc4b3a93

Node-RED

Flow 1

msg.payload

water monitor

temp

pH

debug

all nodes

all

11/18/2022, 7:17:23 PM node: f2f2649a.0d0d98
iot-
2/type/ESP32/id/Temperature_Sensor/evt/Data/fmt/json
: msg.payload : Object
▶ { temperature: 29.7, pH: 12 }

11/18/2022, 7:17:25 PM node: f2f2649a.0d0d98
iot-
2/type/ESP32/id/Temperature_Sensor/evt/Data/fmt/json
: msg.payload : Object
▶ { temperature: 29.7, pH: 4 }

11/18/2022, 7:17:26 PM node: f2f2649a.0d0d98
iot-
2/type/ESP32/id/Temperature_Sensor/evt/Data/fmt/json
: msg.payload : Object
▶ { temperature: 29.7, pH: 4 }

11/18/2022, 7:17:28 PM node: f2f2649a.0d0d98
iot-
2/type/ESP32/id/Temperature_Sensor/evt/Data/fmt/json
: msg.payload : Object
▶ { temperature: 39.3, pH: 10 }

11/18/2022, 7:17:29 PM node: f2f2649a.0d0d98
iot-
2/type/ESP32/id/Temperature_Sensor/evt/Data/fmt/json
: msg.payload : Object
▶ { temperature: 39.3, pH: 3 }

