

## PROJECT DEVELOPMENT PHASE

### PROJECT DEVELOPMENT - DELIVERY OF SPRINT 1

Date:	09 November 2022
Team ID:	PNT2022TMID00966
Name:	Real-Time RiverWater Quality Monitoring and Control System

### ABOUT OUR TOPIC:

#### REAL – TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

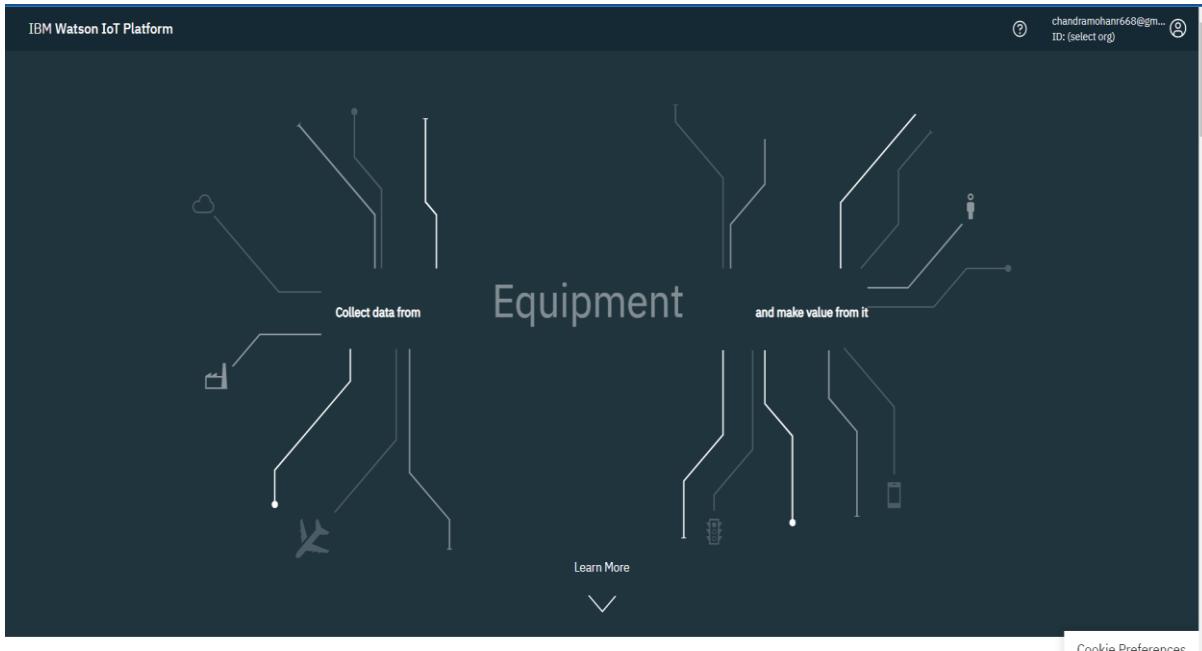
Internet of things (IoT) is an innovative technological phenomenon. It is shaping today's world and is used in different fields for collecting, monitoring and analysis of data from remote locations. IoT integrated network if everywhere starting from smart cities, smart power grids, and smart supply chain to smart wearable. Though IoT is still under applied in the field of environment it has huge potential.

Current water quality monitoring system is a manual system with a monotonous process and is very time-consuming. It is sensor-based water quality monitoring system. The main components of Wireless Sensor Network (WSN) include a microcontroller for processing the system, communication system for inter and intra node communication and several sensors. Real-time data access can be done by using remote monitoring and Internet of Things (IoT) technology.

To develop the Application using given deliverables

To create IBM Watson Cloud and to link with the application developed  To create Nord Red Service

To express the Python Code and simulate successfully in IBM Cloud



## DEVICE CREATION PAGE

IBM Watson IoT Platform

chandramohanr668@gmail.com  
ID: xmppcv

Browse Action Device Types Interfaces Add Device +

Search by Device ID Device Simulator

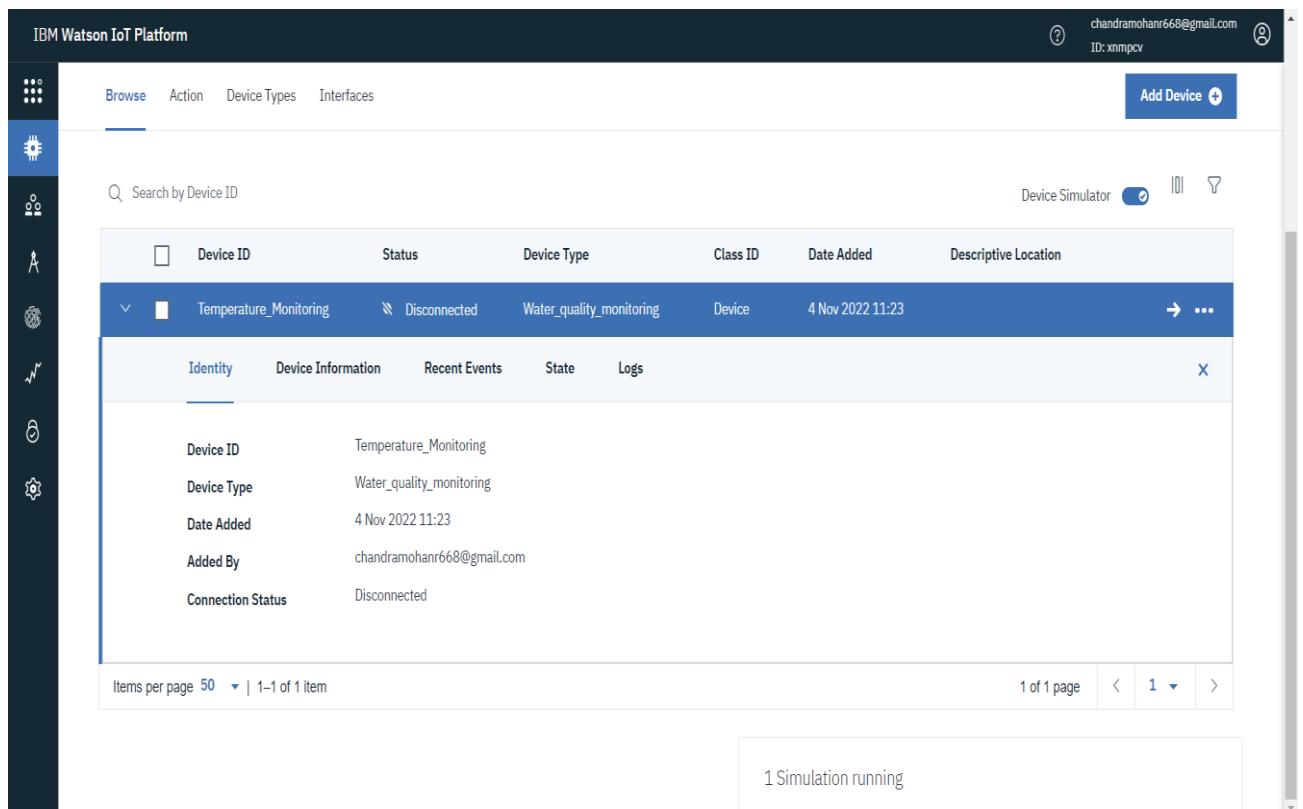
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
Temperature_Monitoring	Disconnected	Water_quality_monitoring	Device	4 Nov 2022 11:23	

Identity Device Information Recent Events State Logs

Device ID: Temperature\_Monitoring  
Device Type: Water\_quality\_monitoring  
Date Added: 4 Nov 2022 11:23  
Added By: chandramohanr668@gmail.com  
Connection Status: Disconnected

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1 Simulation running



IBM Watson IoT Platform

chandramohanr668@gmail.com  
ID: xmppcv

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Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
Temperature_Monitoring	Disconnected	Water_quality_monitoring	Device	4 Nov 2022 11:23	

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"Temperature":13,"Humidity":20}	json	a few seconds ago
event_1	{"Temperature":98,"Humidity":65}	json	a minute ago
event_1	{"Temperature":1,"Humidity":29}	json	a minute ago
event_1	{"Temperature":50,"Humidity":52}	json	a minute ago
event_1	{"Temperature":90,"Humidity":56}	json	a minute ago

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1 Simulation running

