

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

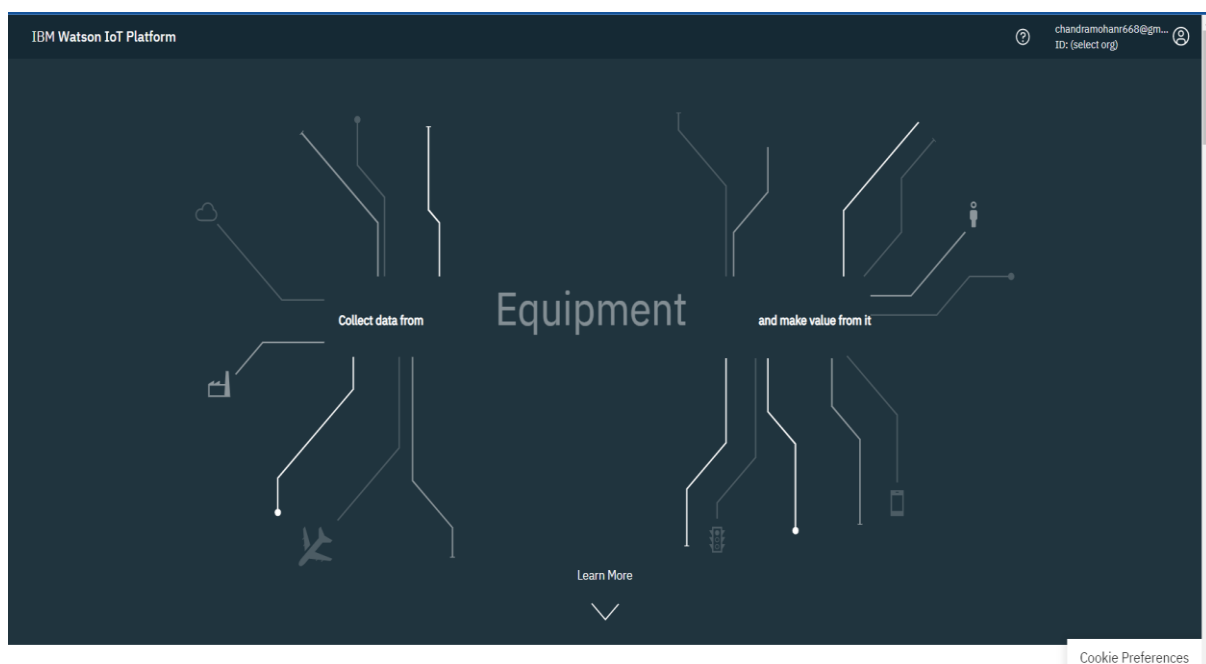
Internet of things (IoT) is an innovative technological phenomenon. It is shaping today's world and is used in different fields for collecting, monitoring and analysis of data from remote locations. IoT integrated network is everywhere starting from smart cities, smart power grids, and smart supply chain 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: xmmpcv

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

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chandramohanr668@gmail.com

ID: xtmjpcv

Browse

Action

Device Types

Interfaces

Add Device +

Temperature_Monitoring

Disconnected

Water_quality_monitoring

Device

4 Nov 2022 11:23

→ ...

Identity

Device Information

Recent Events

State

Logs

X

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