

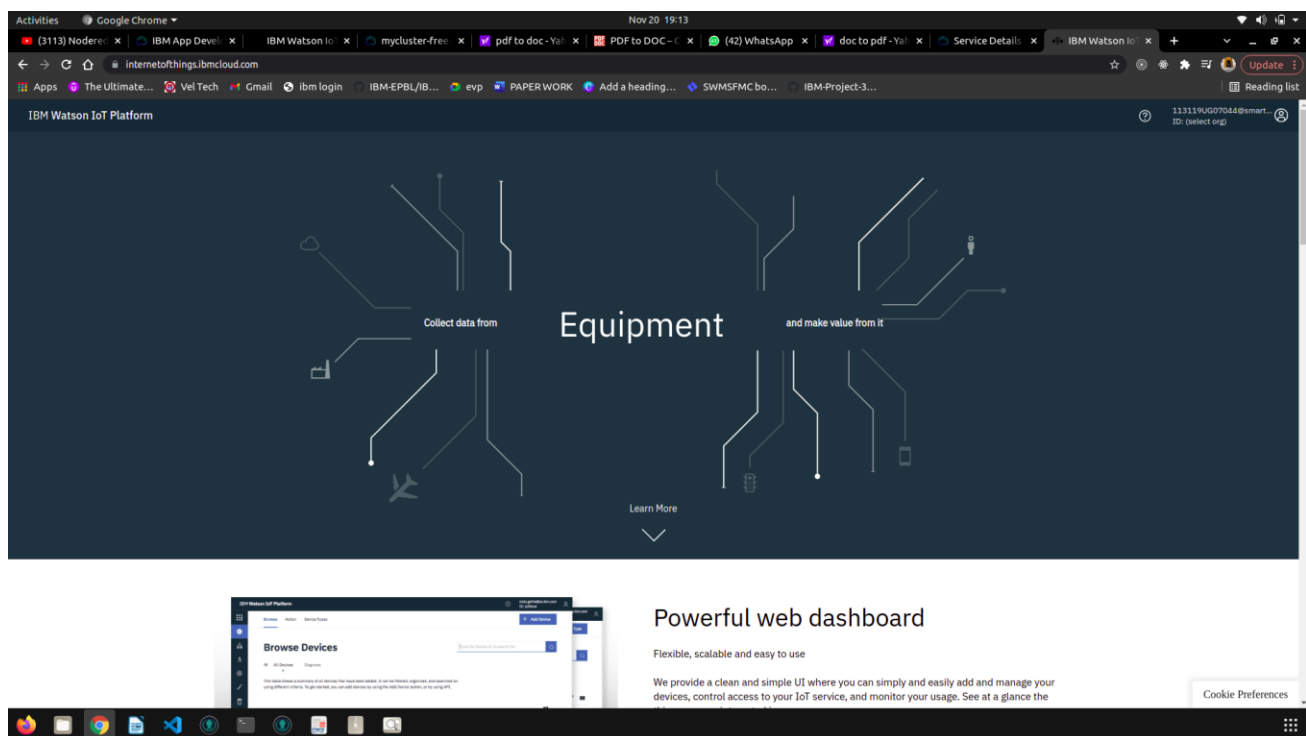
SPRINT DELIVERY – 2

Date	7 November 2022
Team ID	PNT2022TMID22555
Project Name	Smart Waste Management System for Metropolitan Cities

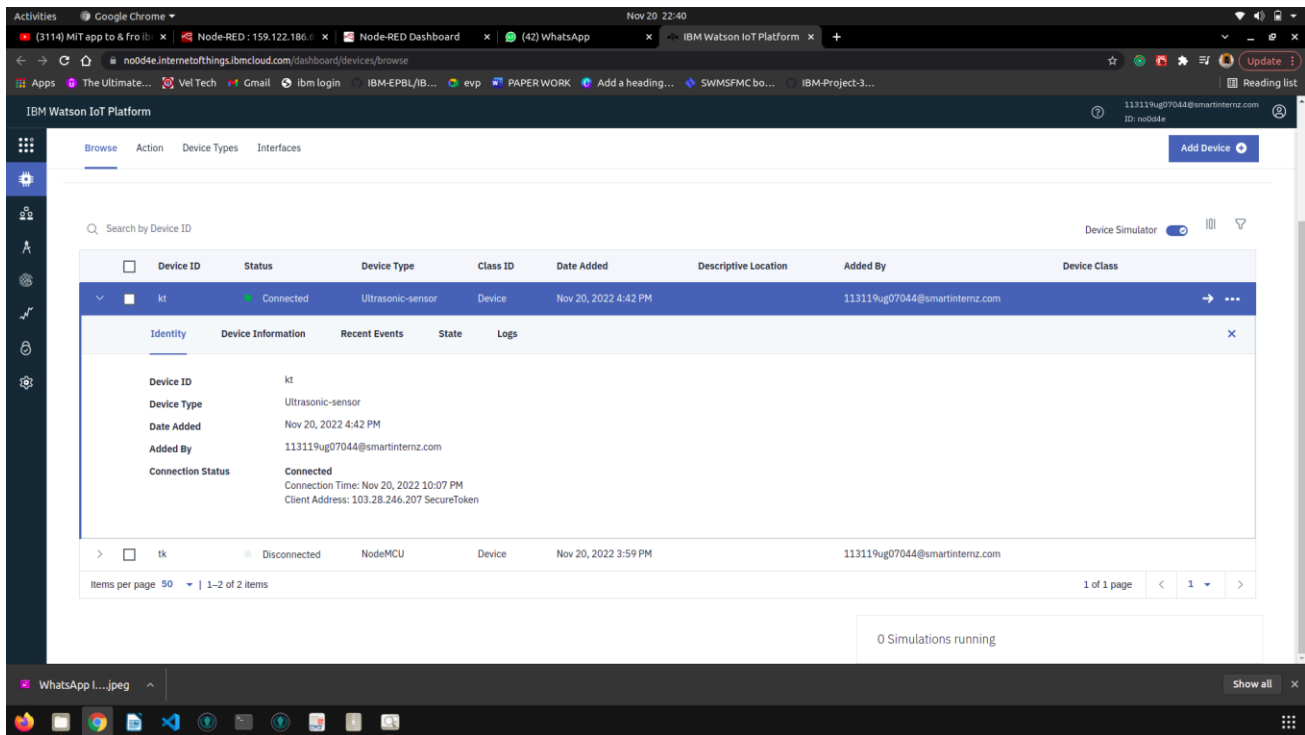
Functional Requirement: Software (create device in the iot watson platform, workflow for iot scenarios using local node red).

User story: USN – 2

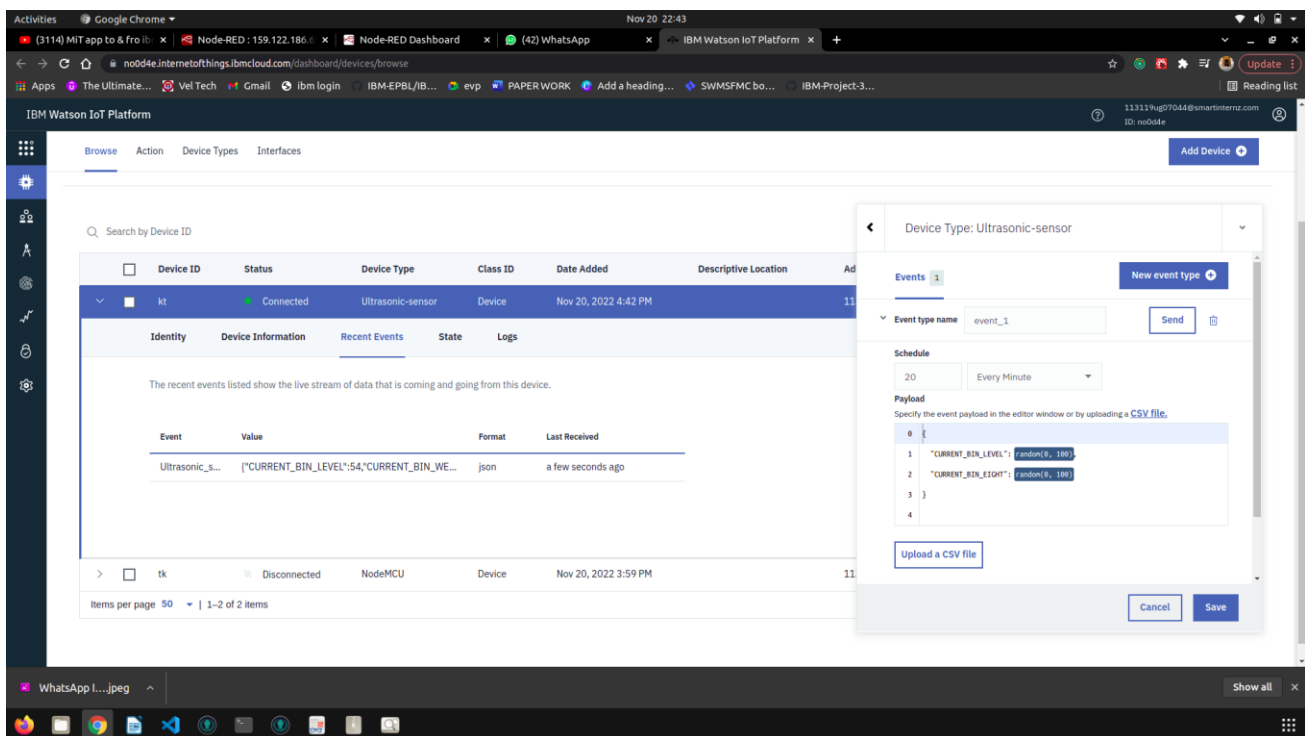
STEP-1: At First, User has to sign in to IBM Watson IOT Platform.



STEP-2: After sign in, User needs to Browse the Device details i.e., Device ID, Device type, Date added, Added by and Connection Status.



STEP-3: Now, User needs to Create a simulation Using type of Device and save it in Events.



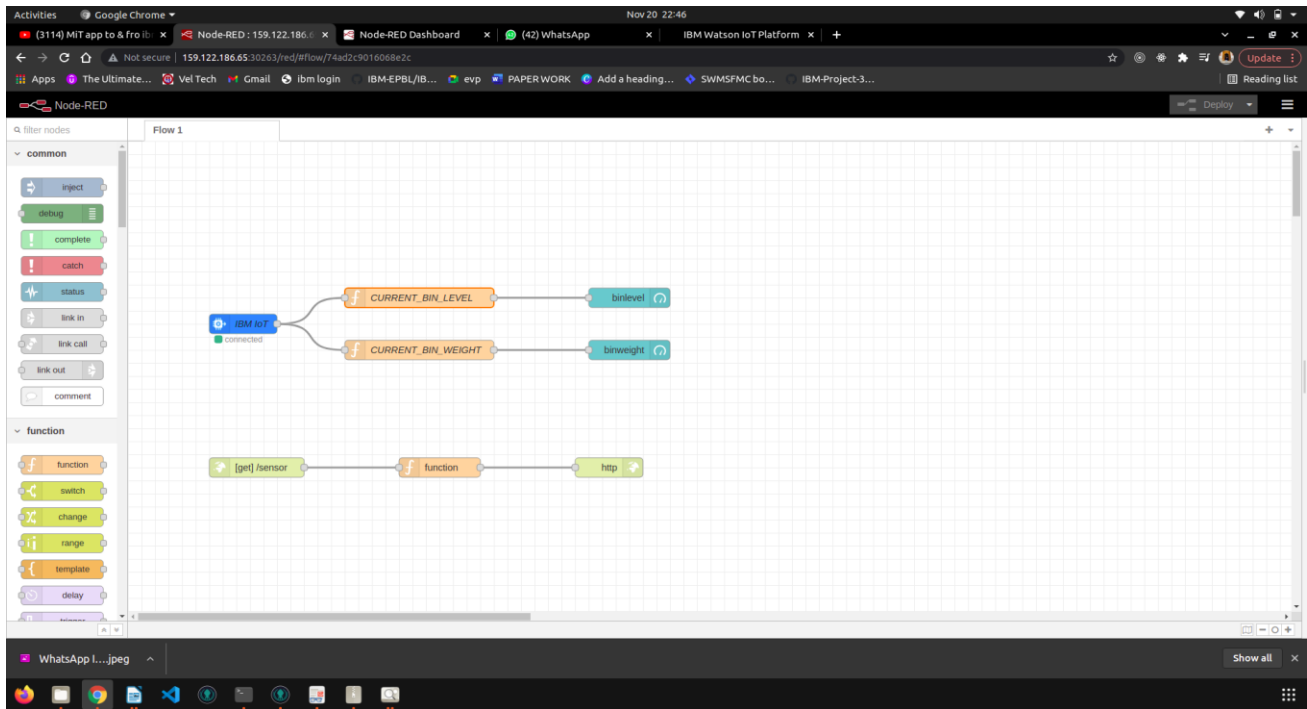
STEP-4: Further Check all the simulation which has been Uploaded in IBM Watson IOT Platform.

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area shows a table of devices with columns: Device ID, Status, Device Type, Class ID, Date Added, Descriptive Location, Added By, and Device Class. A device with ID 'kt' is highlighted, and its details are shown in a modal window. The modal includes tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Recent Events' tab is active, displaying a list of events with columns: Event, Value, Format, and Last Received. The events are from an 'Ultrasonic_s...' device, showing 'CURRENT_BIN_LEVEL' values. A 'Device Simulator' toggle is visible in the top right of the modal. At the bottom right, a status box indicates '0 Simulations running'.

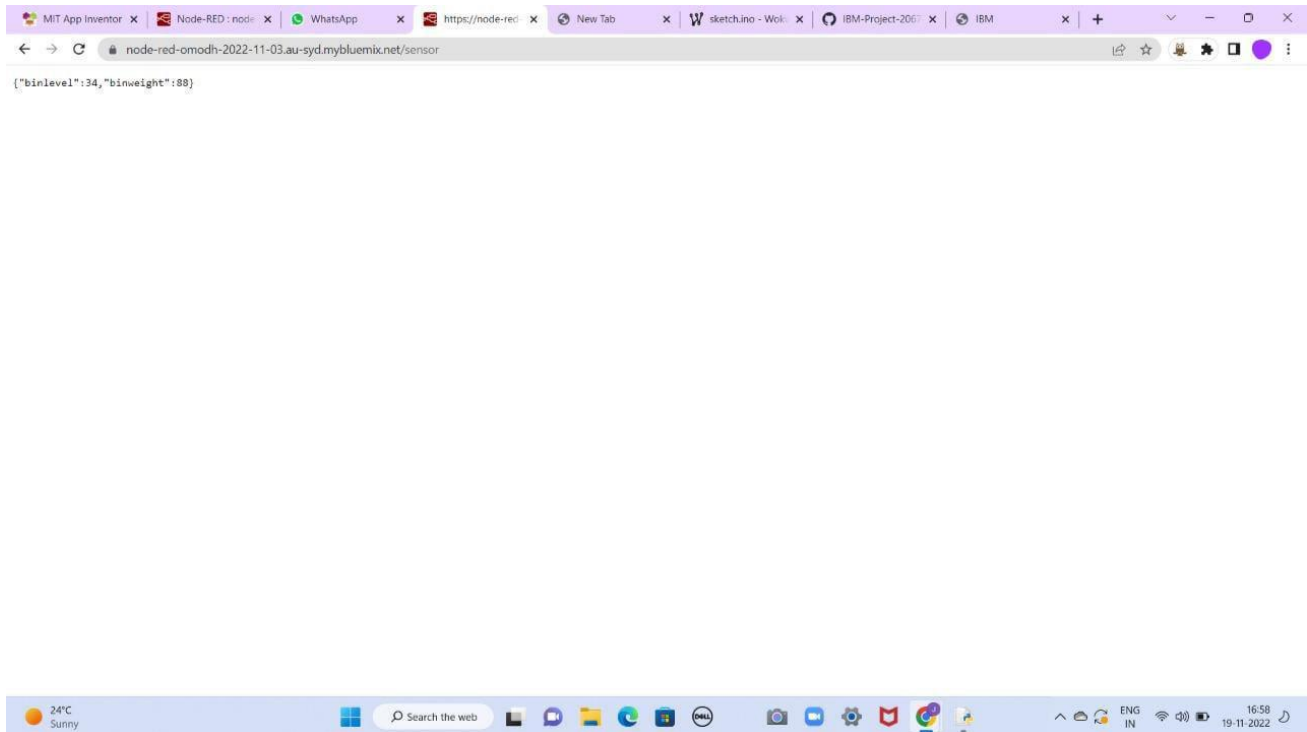
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By	Device Class
kt	Connected	Ultrasonic-sensor	Device	Nov 20, 2022 4:42 PM		113119ug07044@smartinternz.com	

Event	Value	Format	Last Received
Ultrasonic_s...	("CURRENT_BIN_LEVEL":55,"CURRENT_BIN_WE...	json	a few seconds ago
Ultrasonic_s...	("CURRENT_BIN_LEVEL":26,"CURRENT_BIN_WE...	json	a few seconds ago
Ultrasonic_s...	("CURRENT_BIN_LEVEL":48,"CURRENT_BIN_WE...	json	a minute ago
Ultrasonic_s...	("CURRENT_BIN_LEVEL":24,"CURRENT_BIN_WE...	json	2 minutes ago
Ultrasonic_s...	("CURRENT_BIN_LEVEL":54,"CURRENT_BIN_WE...	json	2 minutes ago

STEP-5: Connect Node-RED setup for data transmission from IBM Watson IOT platform to Node-RED dashboard & the given values will be displayed at the right side of the Screen.



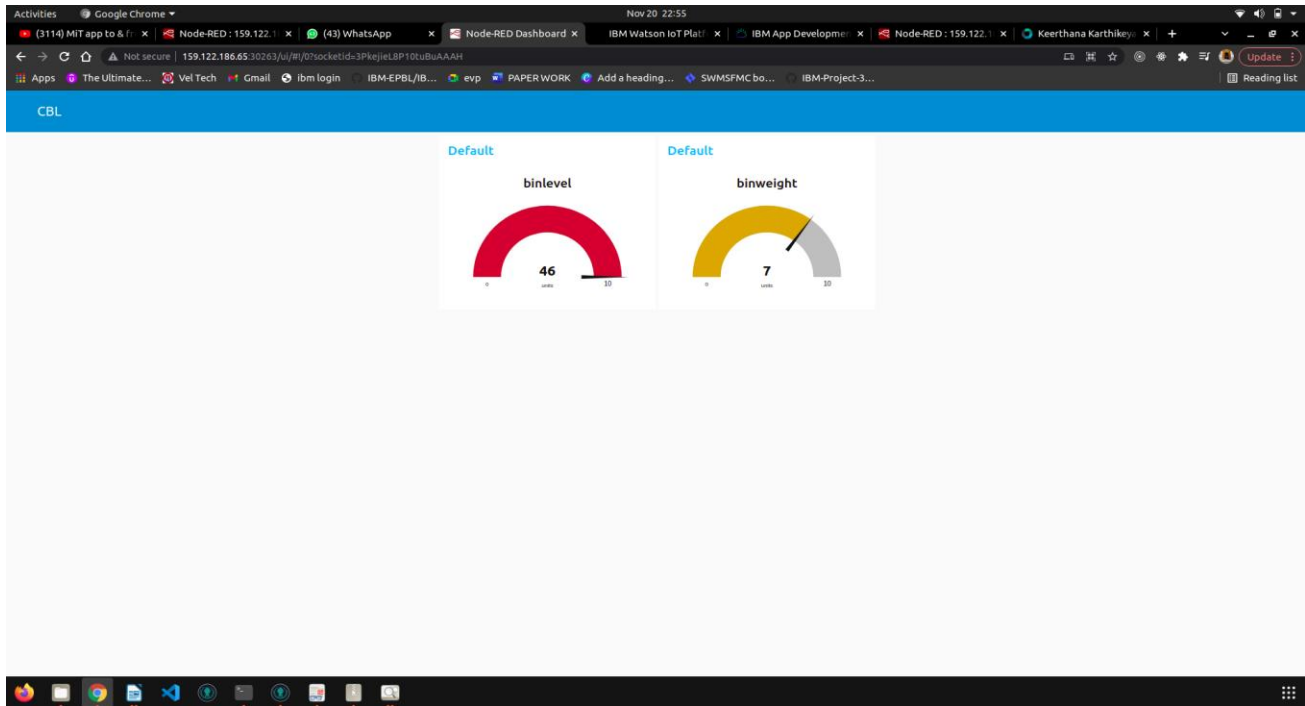
STEP-6: Further it shows the Random IBM simulated values from IBM device.



STEP-7: The below link is regarding Simulation of Node-RED and Simulated Values From IBM Device.

<http://159.122.186.65:30263/red/#flow/74ad2c9016068e2c>

STEP-8: Finally, it shows Output of Smart Bin in Smart Waste Management System (Bin Weight & Bin Level).



STEP-9: The below link is regarding the final output of Smart Bin.

<http://159.122.186.65:30263/ui/#!/0?socketid=3PkejieL8P10tuBuAAAH>