

SPRINT-3

Date	11 September 2022
Team ID	PNT2022TMID48274
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification.

IOT Device- Watson Communication:

Step1:

It will sensing the child's pulse rate and body temperature level, it is used to monitor by connecting to the IBM Watson account.

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area shows a list of devices, including 'dknr2022' and 'rsdeviceid'. The 'rsdeviceid' device is selected, and its 'Recent Events' tab is active. This tab displays a table of live data events, each containing 'Temperature' and 'Pulse' values in JSON format. A status message at the bottom indicates '1 Simulation running'. The Windows taskbar at the bottom shows the system time as 6:10 AM on 18-Nov-22.

Event	Value	Format	Last Received
event_1	{"Temperature":99,"Pulse":86}	json	a few seconds ago
event_1	{"Temperature":99,"Pulse":77}	json	a few seconds ago
event_1	{"Temperature":98,"Pulse":87}	json	a few seconds ago
event_1	{"Temperature":99,"Pulse":80}	json	a few seconds ago
event_1	{"Temperature":99,"Pulse":96}	json	a few seconds ago

If the child crossing the Boundry range then the alert signal is sending to the Watson account.

The screenshot shows the IBM Watson IoT Platform dashboard. The 'Recent Events' tab is selected, displaying a table of events. The table has four columns: Event, Value, Format, and Last Received. The events are all labeled 'event_1' and contain location alert data in JSON format. A status message at the bottom indicates '2 Simulations running'.

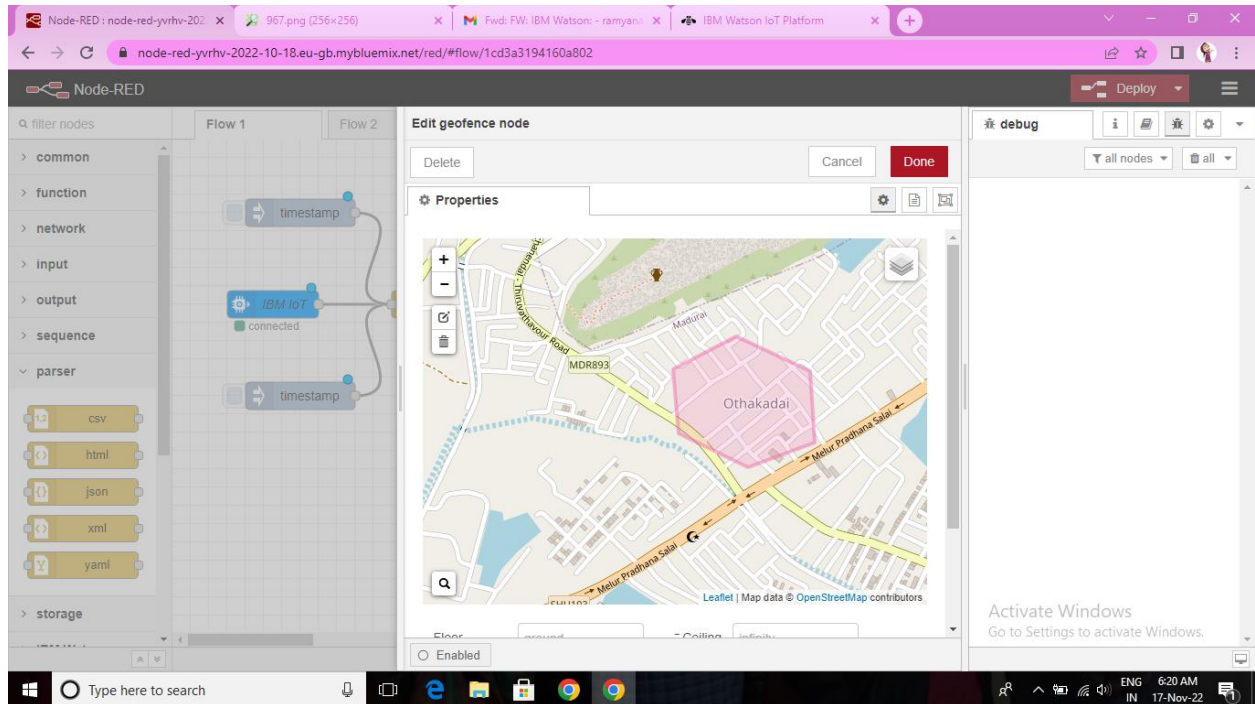
Event	Value	Format	Last Received
event_1	{"Location Alert":91.7}	json	a few seconds ago
event_1	{"Location Alert":94.6}	json	a few seconds ago
event_1	{"Location Alert":92.4}	json	a few seconds ago
event_1	{"Location Alert":93.7}	json	a few seconds ago
event_1	{"Location Alert":96.2}	json	a few seconds ago

Step2

Making a Node-red connection, the ibm input node is connected to the Watson account,

The screenshot shows a Node-RED flow diagram. The flow starts with an 'IBM IoT' input node, which is connected to two 'timestamp' nodes. These timestamp nodes are connected to 'In School' and 'Out School' nodes. The 'In School' node is connected to a 'json' node, which is then connected to an 'Enter School' function node. The 'Out School' node is connected to a 'json' node, which is then connected to a 'Leave school' function node. The 'Enter School' and 'Leave school' function nodes are connected to a 'change only' node, which is then connected to an 'IBM IoT' output node. The 'Temperature Node' and 'Pulse Node' are connected to 'gauge' nodes. A 'switch' node is also present in the flow.

The geofency node is used to locating the child leaving place



User interference of the node-red connection for temperature and pulse

<https://node-red-yvrhv-2022-10-18.eu-gb.mybluemix.net/temp/pulse>

