SPRINT-2

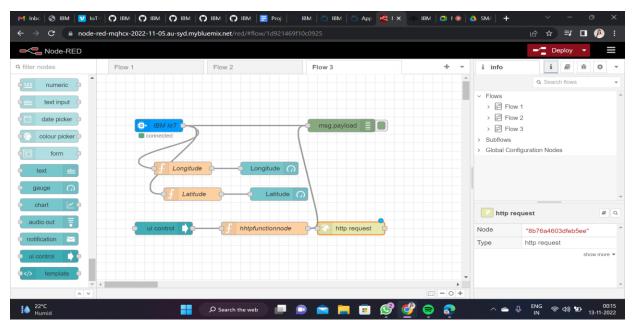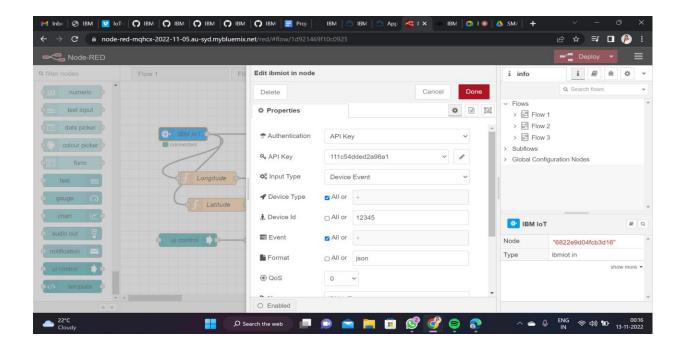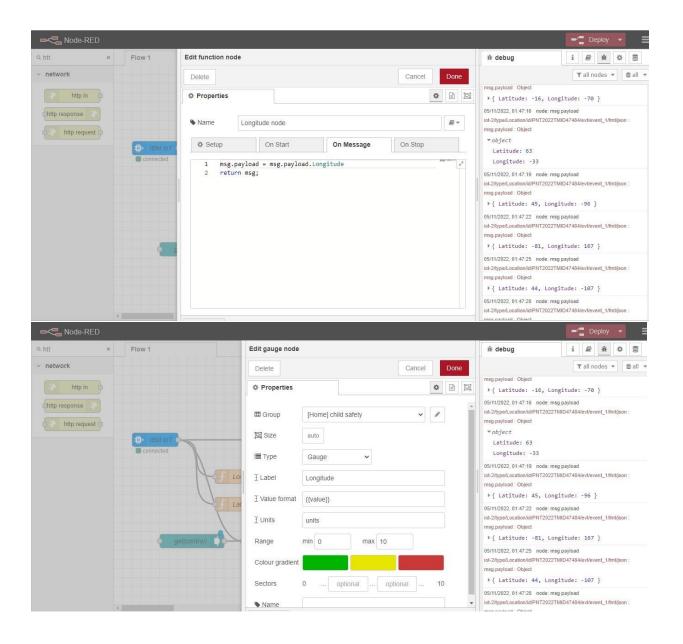| Date	10 November 2022
Team ID	PNT2022TMID25977
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Workflow for IoT scenarios using local Node-RED

Screen 1 — Node-RED: Edit function node

Node-RED   Deploy

Flow 1

Edit function node

Delete   Cancel   Done

⚙ Properties   ⚙ 📄 🔲

🏷 Name   Longitude node

⚙ Setup   On Start   **On Message**   On Stop

```
1    msg.payload = msg.payload.Longitude
2    return msg;
```

debug   i 📄 🐞 ⚙ 🗄

▼ all nodes   🗑 all ▾

msg.payload : Object
▶ { Latitude: -16, Longitude: -70 }

05/11/2022, 01:47:16 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▼ object
    Latitude: 63
    Longitude: -33

05/11/2022, 01:47:19 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: 45, Longitude: -96 }

05/11/2022, 01:47:22 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: -81, Longitude: 167 }

05/11/2022, 01:47:25 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: 44, Longitude: -107 }

05/11/2022, 01:47:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :

Screen 2 — Node-RED: Edit gauge node

Node-RED   Deploy

Flow 1

Edit gauge node

Delete   Cancel   Done

⚙ Properties   ⚙ 📄 🔲

▦ Group   [Home] child safety   ✎

🔲 Size   auto

≡ Type   Gauge

Ī Label   Longitude

Ī Value format   {{value}}

Ī Units   units

Range   min 0   max 10

Colour gradient   🟩 🟨 🟥

Sectors   0   …   optional   …   optional   …   10

🏷 Name

debug   i 📄 🐞 ⚙ 🗄

▼ all nodes   🗑 all ▾

msg.payload : Object
▶ { Latitude: -16, Longitude: -70 }

05/11/2022, 01:47:16 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▼ object
    Latitude: 63
    Longitude: -33

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iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
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05/11/2022, 01:47:22 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: -81, Longitude: 167 }

05/11/2022, 01:47:25 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: 44, Longitude: -107 }

05/11/2022, 01:47:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :

Top screenshot (Node-RED - Edit gauge node):

Node-RED — Deploy

Q htt — Flow 1 — debug — i

~ network

http in
http response
http request

IBM IoT
connected

Lo
Lat

get(control)

Edit gauge node

Delete — Cancel — Done

⚙ Properties — ⚙ 📄 🔲

▦ Group — [Home] child safety — ✏

🔲 Size — auto

☰ Type — Gauge

I Label — Lattitude

I Value format — {{value}}

I Units — units

Range — min 0 — max 10

Colour gradient — [green] [yellow] [red]

Sectors — 0 … optional … optional … 10

🏷 Name

debug panel:

msg.payload : Object
▶ { Latitude: -16, Longitude: -70 }

05/11/2022, 01:47:16 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▼ object
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05/11/2022, 01:47:22 node: msg payload
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05/11/2022, 01:47:25 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: 44, Longitude: -107 }

05/11/2022, 01:47:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object

Bottom screenshot (Node-RED - Edit function node):

Node-RED — Deploy

Q htt — Flow 1 — debug — i

~ network

http in
http response
http request

IBM IoT
connected

Edit function node

Delete — Cancel — Done

⚙ Properties — ⚙ 📄 🔲

🏷 Name — Latitude node

⚙ Setup | On Start | **On Message** | On Stop

```
1  msg.payload = msg.payload.Latitude
2  return msg;
```

debug panel:

msg.payload : Object
▶ { Latitude: -16, Longitude: -70 }

05/11/2022, 01:47:16 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▼ object
  Latitude: 63
  Longitude: -33

05/11/2022, 01:47:19 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: 45, Longitude: -96 }

05/11/2022, 01:47:22 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: -81, Longitude: 167 }

05/11/2022, 01:47:25 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object
▶ { Latitude: 44, Longitude: -107 }

05/11/2022, 01:47:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object

Node-RED

Deploy

htt ×

network
- http in
- http response
- http request

Flow 1

IBM IoT
connected

Edit function node

Delete | Cancel | Done

Properties

Name: httpfunctionnode

Setup | On Start | **On Message** | On Stop

```
1  msg.payload={"longitude":global.get(long)
2
3                    "latitude": global.get(lati)}
4  return msg;
```

debug

all nodes | all

msg.payload : Object
▶{ Latitude: -16, Longitude: -70 }

05/11/2022, 01:47:16 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
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▼object
    Latitude: 63
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msg.payload : Object
▶{ Latitude: 44, Longitude: -107 }

05/11/2022, 01:47:28 node: msg payload
iot-2/type/Location/id/PNT2022TMID47484/evt/event_1/fmt/json :
msg.payload : Object

Home

child safety

Lattitude

0   3   10
        units

Longitude

0   0   10
        units