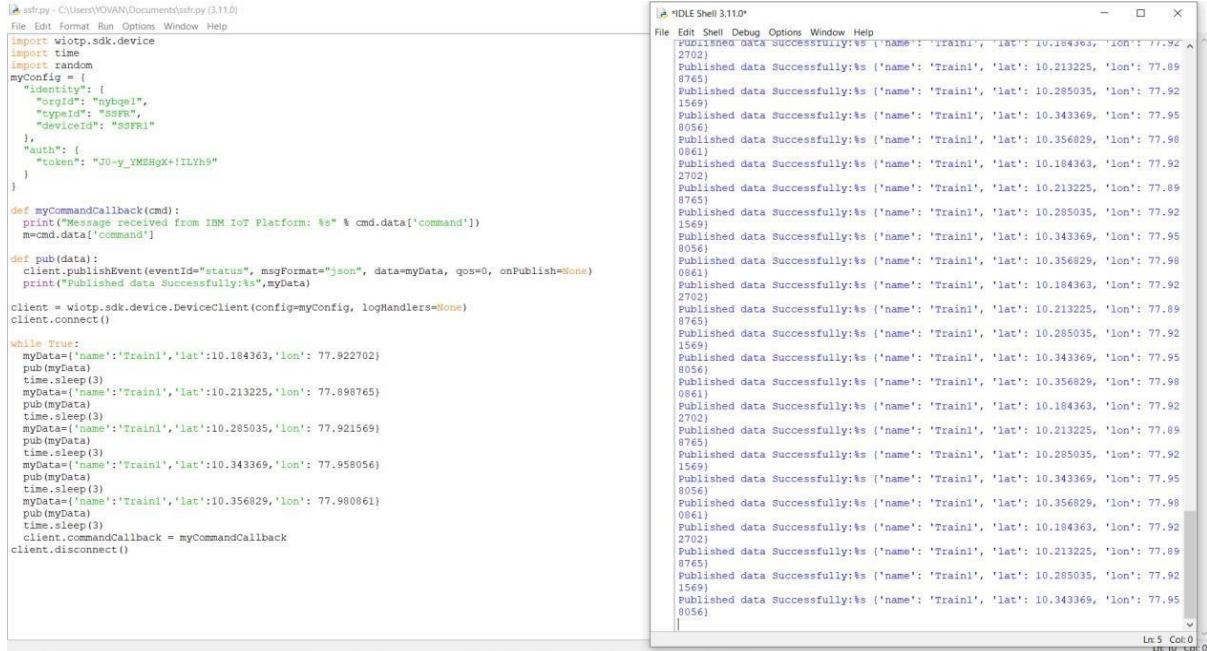


TESTING OF WEB UI

Date	10 November 2022
Team ID	PNT2022TMID01176
Project Name	Project - Smart Solution For Railways

Location Tracking:

- The python code for detecting the location of the train is made to Run.
- The live status of the train is updated in the IBM Watson IoT Platform and it is further used by the node red application.
- The location is shown in the map via the Node red UI.



The image shows two windows side-by-side. The left window is titled 'usfr.py - C:\Users\VOVAN\Documents\usfr.py (3.11.0)' and contains Python code for a device client. The right window is titled 'IDLE Shell 3.11.0*' and shows the execution of the script, with multiple 'Published data Successfully' messages outputting train location data over time.

```
File Edit Format Run Options Window Help
File Edit Shell Debug Options Window Help
Published data Successfully:ts {"name": "Train1", "lat": 10.184363, "lon": 77.92
2702}
Published data Successfully:ts {"name": "Train1", "lat": 10.213225, "lon": 77.89
8765}
Published data Successfully:ts {"name": "Train1", "lat": 10.285035, "lon": 77.92
1569}
Published data Successfully:ts {"name": "Train1", "lat": 10.343369, "lon": 77.95
8956}
Published data Successfully:ts {"name": "Train1", "lat": 10.356829, "lon": 77.98
0861}
Published data Successfully:ts {"name": "Train1", "lat": 10.184363, "lon": 77.92
2702}
Published data Successfully:ts {"name": "Train1", "lat": 10.213225, "lon": 77.89
8765}
Published data Successfully:ts {"name": "Train1", "lat": 10.285035, "lon": 77.92
1569}
Published data Successfully:ts {"name": "Train1", "lat": 10.343369, "lon": 77.95
8056}
Published data Successfully:ts {"name": "Train1", "lat": 10.356829, "lon": 77.98
0861}
Published data Successfully:ts {"name": "Train1", "lat": 10.184363, "lon": 77.92
2702}
Published data Successfully:ts {"name": "Train1", "lat": 10.213225, "lon": 77.89
8765}
Published data Successfully:ts {"name": "Train1", "lat": 10.285035, "lon": 77.92
1569}
Published data Successfully:ts {"name": "Train1", "lat": 10.343369, "lon": 77.95
8056}
Published data Successfully:ts {"name": "Train1", "lat": 10.356829, "lon": 77.98
0861}
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2702}
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8765}
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8765}
Published data Successfully:ts {"name": "Train1", "lat": 10.285035, "lon": 77.92
1569}
Published data Successfully:ts {"name": "Train1", "lat": 10.343369, "lon": 77.95
8056}
```

The screenshot shows a web-based interface for managing devices. On the left is a dark sidebar with various icons: a grid, a gear, a lock, a person, a bar chart, a gear, a gear with a checkmark, a gear with a minus sign, and a gear with a question mark.

The main area has a header with tabs: Browse, Action, Device Types, and Interfaces. There is also an "Add Device" button and a "Device Simulator" toggle switch.

A search bar at the top says "Search by Device ID".

The main content area displays a table of devices:

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	Jeeva_Yovan	Disconnected	Watson	Device	28 Oct 2022 19:58	
▼	SSFR1	Connected	SSFR	Device	16 Nov 2022 10:32	→ ...

Below the table, there is a section titled "Recent Events" with tabs: Identity, Device Information, Recent Events (which is selected), State, and Logs.

The "Recent Events" section contains the following table:

Event	Value	Format	Last Received
status	{"name": "Train1", "lat": 10.285035, "lon": 77.9215...}	json	a few seconds ago
status	{"name": "Train1", "lat": 10.213225, "lon": 77.8987...}	json	a few seconds ago
status	{"name": "Train1", "lat": 10.184363, "lon": 77.9227...}	json	a few seconds ago
status	{"name": "Train1", "lat": 10.356829, "lon": 77.9808...}	json	a few seconds ago
status	{"name": "Train1", "lat": 10.343369, "lon": 77.9580...}	json	a few seconds ago

At the bottom right of the main content area, it says "0 Simulations running".

Service Details - IBM Watson IoT Node-RED Node-RED : node MIT App Inventor Cloudant Dashboard Sprint 3.pdf IBM-EPBL/IBM-EPBL Node-RED Dashboard Deploy

127.0.0.1:1880/#flow/c9ddf2195fb5643c

Node-RED

Flow 1 Flow 2

```

graph LR
    IoT((IBM IoT)) --> Debug1[debug 1]
    Debug1 --> Worldmap[worldmap]
    
```

filter nodes

- date picker
- colour picker
- form
- text
- gauge
- chart
- audio out
- notification
- ui control
- template
- worldmap

location

- worldmap
- worldmap in
- tracks
- convex - hull

Deploy

debug

all nodes all

```

iot-2/type/SSFR/d/SSFR1/evl/status/lml/json
msg payload : Object
  > { name: "Train1", lat: 10.184363,
  lon: 77.922702 }

16/11/2022, 11:06:53 am node: debug 1
iot-2/type/SSFR/d/SSFR1/evl/status/lml/json
msg payload : Object
  > { name: "Train1", lat: 10.213225,
  lon: 77.898765 }

16/11/2022, 11:06:55 am node: debug 1
iot-2/type/SSFR/d/SSFR1/evl/status/lml/json
msg payload : Object
  > { name: "Train1", lat: 10.285035,
  lon: 77.921569 }

16/11/2022, 11:06:57 am node: debug 1
iot-2/type/SSFR/d/SSFR1/evl/status/lml/json
msg payload : Object
  > { name: "Train1", lat: 10.343369,
  lon: 77.958856 }

16/11/2022, 11:07:00 am node: debug 1
iot-2/type/SSFR/d/SSFR1/evl/status/lml/json
msg payload : Object
  > { name: "Train1", lat: 10.356829,
  lon: 77.980861 }

16/11/2022, 11:07:03 am node: debug 1
iot-2/type/SSFR/d/SSFR1/evl/status/lml/json
msg payload : Object
  > { name: "Train1", lat: 10.184363,
  lon: 77.922702 }

```

Service Details - IBM Watson IoT Node-RED Node-RED : node MIT App Inventor Cloudant Dashboard Sprint 3.pdf IBM-EPBL/IBM-EPBL Node-RED Dashboard Deploy

127.0.0.1:1880/ui/#/0?socketId=jQBt3KgjE1dXCNPAAAn

Live Status

Tracking

Leaflet | Map data © OpenStreetMap contributors.