

TESTING OF WEB UI

Team ID : PNT2022TMID29870

Project : Smart Solutions 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 screenshot displays a development environment with three main components:

- Python Code (Left):** A script named `ssfr.py` using the `wiop.sdk.device` library. It defines a `myConfig` object with identity and authentication details, a `myCommandCallback` function, and a `pub` function that publishes location data (name, lat, lon) to the IBM Watson IoT Platform. A `while True` loop continuously publishes data points for a train.
- Terminal (Right):** An 'IDLE Shell 3.11.0' window showing the output of the Python script, displaying multiple 'Published data Successfully' messages with JSON payloads containing train location data.
- IBM Watson IoT Platform Dashboard (Bottom):** A web browser view of the dashboard at `https://mybq1.internetofthings.ibmcloud.com/dashboard/devices/browse`. It shows a list of devices, including 'Jeeva_Yovan' (Disconnected) and 'SSFR1' (Connected). The 'SSFR1' device is selected, showing its 'Recent Events' as a stream of location data.

The dashboard interface includes a sidebar with navigation icons, a top navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces' tabs. The 'Recent Events' section for device 'SSFR1' displays a table of events:

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 of the dashboard, it indicates '0 Simulations running'.

Node-RED interface showing a flow with an IBM IoT node connected to a debug node and a worldmap node. The debug console displays messages with coordinates for "Train1".

Flow 1:

- IBM IoT (connected)
- debug 1
- worldmap (connected 1)

Debug Console:

```
iot-2/type/SFRR/iot/SFRR1evbstatus/tml/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/SFRR/iot/SFRR1evbstatus/tml/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/SFRR/iot/SFRR1evbstatus/tml/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/SFRR/iot/SFRR1evbstatus/tml/json
msg payload: Object
{
  name: "Train1", lat: 10.343369,
  lon: 77.958056
}

16/11/2022, 11:07:00 am node: debug 1
iot-2/type/SFRR/iot/SFRR1evbstatus/tml/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/SFRR/iot/SFRR1evbstatus/tml/json
msg payload: Object
{
  name: "Train1", lat: 10.184363,
  lon: 77.922702
}
```

Live Status

Tracking

