

Web Application Development

Team ID	PNT2022TMID43127
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

Web application development using Node-Red :

The screenshot displays the Node-RED web interface in a browser. The top navigation bar includes tabs for 'Service Details - IBM', 'IBM Watson IoT Platform', 'Node-RED: node-red', '(4) WhatsApp', 'Inbox (1,534) - sentho', and 'Node-RED Dashboard'. The address bar shows the URL: `node-red-chbau-2022-11-16.eu-gb.mybluemix.net/red/#/flow/c037c4f1547c441f`. The main workspace shows 'Flow 1' with the following components:

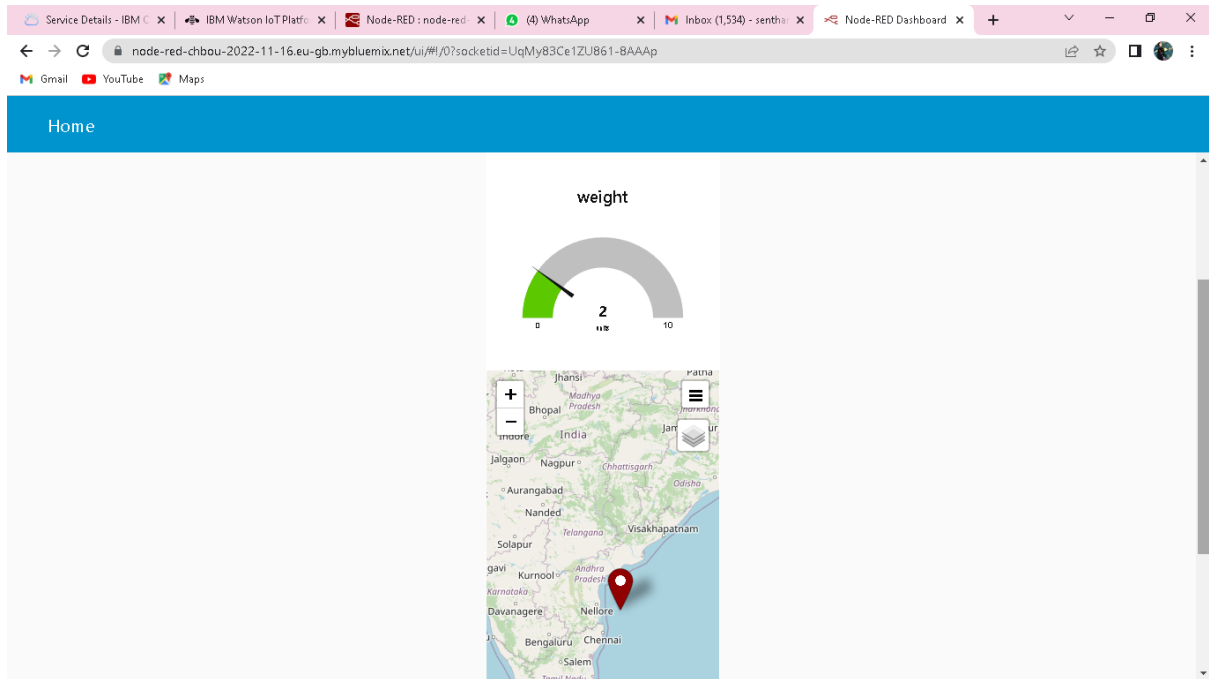
- IBM IoT** node (connected) receives input from the left.
- The flow splits into three parallel paths:
 - Bin_Level** function node connects to a **level** output node.
 - Bin_Weight** function node connects to a **weight** output node.
 - worldmap** node (connected 2) connects to a **msg payload** node.
- All three paths converge into a single **msg payload** node.

The right sidebar shows the 'debug' console with a list of messages. Each message is a JSON object representing IoT data:

```
{
  "name": "Bin_2",
  "lat": 14.092677,
  "lon": 81.188314,
  "Level": 0,
  "Weight": 10
}
```

The messages are timestamped and include a node ID (48afb44a1b636aa). The bottom status bar indicates '30°C Cloudy' and 'ENG 15:41'.

Web dashboard display for the user :



Result :

Web user interface is created successfully.