

### Use Dashboard Nodes for Creating UI (Web Apps)

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Project Name	Smart waste management system for metropolitan cities

Step 1: Open Node red and pick and place blocks according to python script flow Step2: Make sure necessary blocks are installed in Node Red Step 3: After creating the flow click on deploy Step 4: Output is displayed in Nodered Debug window Step 5: Also, web UI can also be seen by the URL followed by/ui

**Screenshots: NODE – RED FLOW**

## NODE – RED UI

The screenshot displays the Node-RED web interface in a browser. The top navigation bar includes a 'Deploy' button and a menu icon. The left sidebar contains a 'filter nodes' search bar and two categories of nodes: 'common' (inject, debug, complete, catch, status, link in, link call, link out, comment) and 'function' (function, switch, change). The main workspace, titled 'Flow 1', shows a flow diagram with the following components:

- An 'IBM IoT' node (blue) with a 'connected' status, which branches into three parallel paths.
- A 'function' node (orange) connected to a 'bin info' node (teal).
- A 'Bin level' node (orange) connected to a 'Bin Level' node (teal).
- A 'Bin weight' node (orange) connected to a 'Bin weight' node (teal).
- A '[get] /smartbin' node (green) connected to an 'http func' node (orange), which is then connected to an 'http' node (green).

The right sidebar features a 'debug' console with a dropdown menu set to 'all nodes'. It displays a series of log messages, each preceded by a timestamp and node ID. The messages show the state of the flow, including warnings about undefined values for 'Bin level(X)', 'Bin weight(kg)', 'Latitude', and 'Longitude'.

```
11/13/2022, 8:33:54 PM node: d1f50440413a61ee  
08.2f8pepythoncodeId252525evtrdata/frn/json - msg payload:  
string[100]  
* "Bin level(X) is undefined and Bin weight(kg) is  
undefined" at Latitude:undefined and  
Longitude:undefined"  
11/13/2022, 8:33:56 PM node: d1f50440413a61ee  
08.2f8pepythoncodeId252525evtrdata/frn/json - msg payload:  
string[100]  
* "Bin level(X) is undefined and Bin weight(kg) is  
undefined" at Latitude:undefined and  
Longitude:undefined"  
11/13/2022, 8:33:57 PM node: d1f50440413a61ee  
08.2f8pepythoncodeId252525evtrdata/frn/json - msg payload:  
string[100]  
* "Bin level(X) is undefined and Bin weight(kg) is  
undefined" at Latitude:undefined and  
Longitude:undefined"  
11/13/2022, 8:37:46 PM node: d1f50440413a61ee  
08.2f8pepythoncodeId252525evtrdata/frn/json - msg payload:  
string[110]  
* "Bin level(X) is 89 and Bin weight(kg) is 1212" at  
Latitude:13.079432333387782 and  
Longitude:80.2441255624143"
```

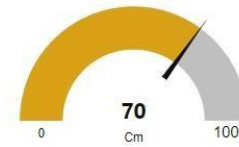
Distance 1



LOAD CELL 1



Distance 2



LOAD CELL 2



Distance 3



LOAD CELL 3



Distance 4



LOAD CELL 4

