

Develop a Web Application Using Node-Red Service

Use Dashboard Nodes for Creating UI(Web App)

Date	17th November 2022
Team ID	PNT2022TMID47485
Project Name	Project: Signs with Smart Connectivity for Better Road Safety.

Links:

[https://33lnun.internetofthings.ibmcloud.com/dashboard/devices/browse--IBM Watson](https://33lnun.internetofthings.ibmcloud.com/dashboard/devices/browse--IBM-Watson)

<http://169.51.206.102:30859/red/#flow/f9f308d8a3dd88b1> — Node-Red Service

<http://ai2.appinventor.mit.edu/#4753699575300096> — MIT Inventor App

The screenshot shows the MIT App Inventor web interface. The project name is "Signs with Smart Connectivity for Better Road Safety". The interface is divided into a "Blocks" panel on the left and a "Viewer" area in the center. The "Blocks" panel contains various UI components like labels, text boxes, buttons, and web nodes. The "Viewer" area displays a flowchart with logic for a timer-triggered web request to "http://169.51.206.102:30859/sensor". The flowchart includes JSON text decoding for "temp", "humid", and "visi" fields, with corresponding "look up in pairs" and "set" blocks for updating text boxes. A "Show Warnings" button is visible at the bottom left of the viewer area.

IoT-B1-1M3E (Mo... | IBM Watson IoT P... | Node-RED : 169... | IBM Cloud | Node-RED Dashb... | MIT App Inventor | 169.51.206.102... | MIT App Inventor | +

Not Secure | ai2.appinventor.mit.edu/#4753699575300096

MIT APP INVENTOR

Projects | Connect | Build | Settings | Help | My Projects | View Trash | Guide | Report an Issue | English | rsarahy103@gmail.com

Signs_with_Smart_Connectivity_for_Better_Road_Safety | Screen1 | Add Screen ... | Remove Screen | Publish to Gallery | Designer | Blocks

Blocks

- HorizontalArrangement2
 - Label2
 - TextBox1
- HorizontalArrangement3
 - Label3
 - TextBox2
- HorizontalArrangement4
 - Label4
 - TextBox3
- HorizontalArrangement5
 - Label5
- HorizontalArrangement6
 - Button1
 - Button2
- Web1
- Web2
- Clock1
- Any component

Media

Upload File ...

Viewer

set TextBox2 . Text to look up in pairs key "humid" pairs call Web1 .JsonTextDecode jsonText get responseContent

set TextBox3 . Text to look up in pairs key "visi" pairs call Web1 .JsonTextDecode jsonText get responseContent

when Button1 .Click do set Web2 . Url to "http://169.51.206.102:30859/control?command=ligh..." call Web2 .Get

when Button2 .Click do set Web2 . Url to "http://169.51.206.102:30859/control?command=ligh..." call Web2 .Get

Show Warnings

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Node-RED

Flow 1

debug

filter nodes

- switch
- change
- range
- template
- delay
- trigger
- filter
- OpenWhisk

network

- mqtt in
- mqtt out
- http in
- http response
- http request
- websocket in
- websocket out
- tcp in

Flow 1

IBM IoT (connected) -> msg.payload -> Temperature node -> Temperature

IBM IoT (connected) -> msg.payload -> Humidity node -> Humidity

IBM IoT (connected) -> msg.payload -> Visibility node -> Visibility

[get] /sensor -> httpfunctionnode -> http

Light ON -> msg.payload -> IBM IoT (connected)

Light OFF -> msg.payload -> IBM IoT (connected)

[get] /control -> http

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Screen1

Weather Monitoring

Temperature 86

Humidity 55

Visibility 40

Control

LIGHT ON

LIGHT OFF

