

Develop A Mobile Application Using MIT app

Use Dashboard Nodes For Creating UI (Mobile App)

Date	11 November 2022
Team ID	PNT2022TMID45387
Project Name	Project – Gas leakage monitoring and alerting system for industries

Step 1: Generated link is pasted

<https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/sensor>

<https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/control?command=Light%20on>

<https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/control?command=Light%20off>

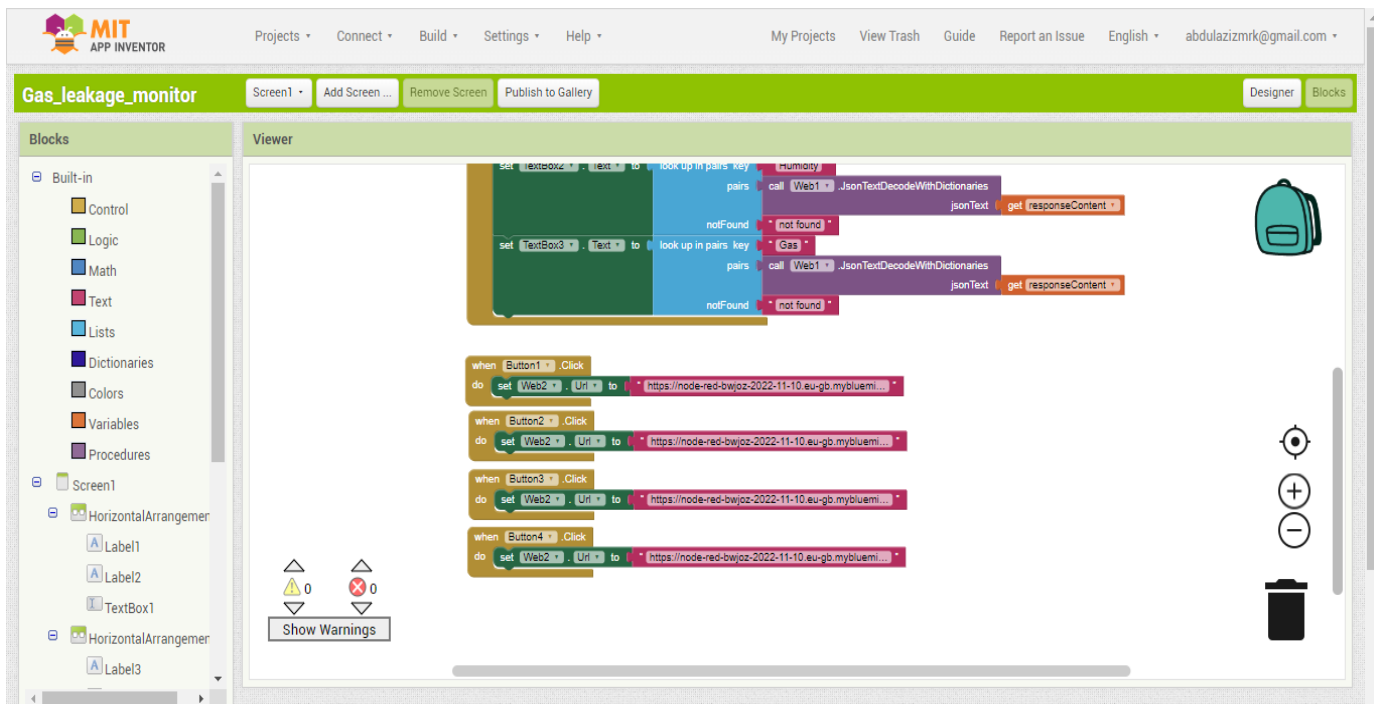
<https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/control?command=Sprinkle%20on>

<https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/control?command=Sprinkle%20off>

Step 2: Paste the links in the sensor and button blocks and the results of blocks of backend is shown

The screenshot shows the MIT App Inventor interface for a project named "Gas_leakage_monitor". The interface is divided into several sections:

- Top Bar:** Includes the MIT App Inventor logo, navigation links (Projects, Connect, Build, Settings, Help), and user information (My Projects, View Trash, Guide, Report an Issue, English, and the user email).
- Project Name:** "Gas_leakage_monitor".
- Blocks Panel (Left):** A list of built-in blocks categorized into Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. The "Screen1" category is expanded, showing "HorizontalArranger", "Label1", "Label2", "TextBox1", and "Label3".
- Viewer Panel (Right):** The main workspace for visual programming. It contains several blocks:
 - when Clock1.Timer** block with a **do** block containing:
 - set Web1.Uri to** block with the URL "https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/sensor".
 - call Web1.Get** block.
 - when Web1.GetText** block with a **do** block containing three parallel logic paths:
 - look up in pairs** block with key "Temperature", followed by **call Web1.JsonTextDecodeWithDictionaries** and **get responseContent**.
 - look up in pairs** block with key "Humidity", followed by **call Web1.JsonTextDecodeWithDictionaries** and **get responseContent**.
 - look up in pairs** block with key "Gas", followed by **call Web1.JsonTextDecodeWithDictionaries** and **get responseContent**.
 - when Button1.Click** block with a **do** block containing:
 - set Web2.Uri to** block with the URL "https://node-red-bwjz-2022-11-10.eu-gb.mybluemix.net/control?command=Light%20on".
- Bottom Left:** A "Show Warnings" button.



Step 3: The final input using MIT app inventor is displayed:

