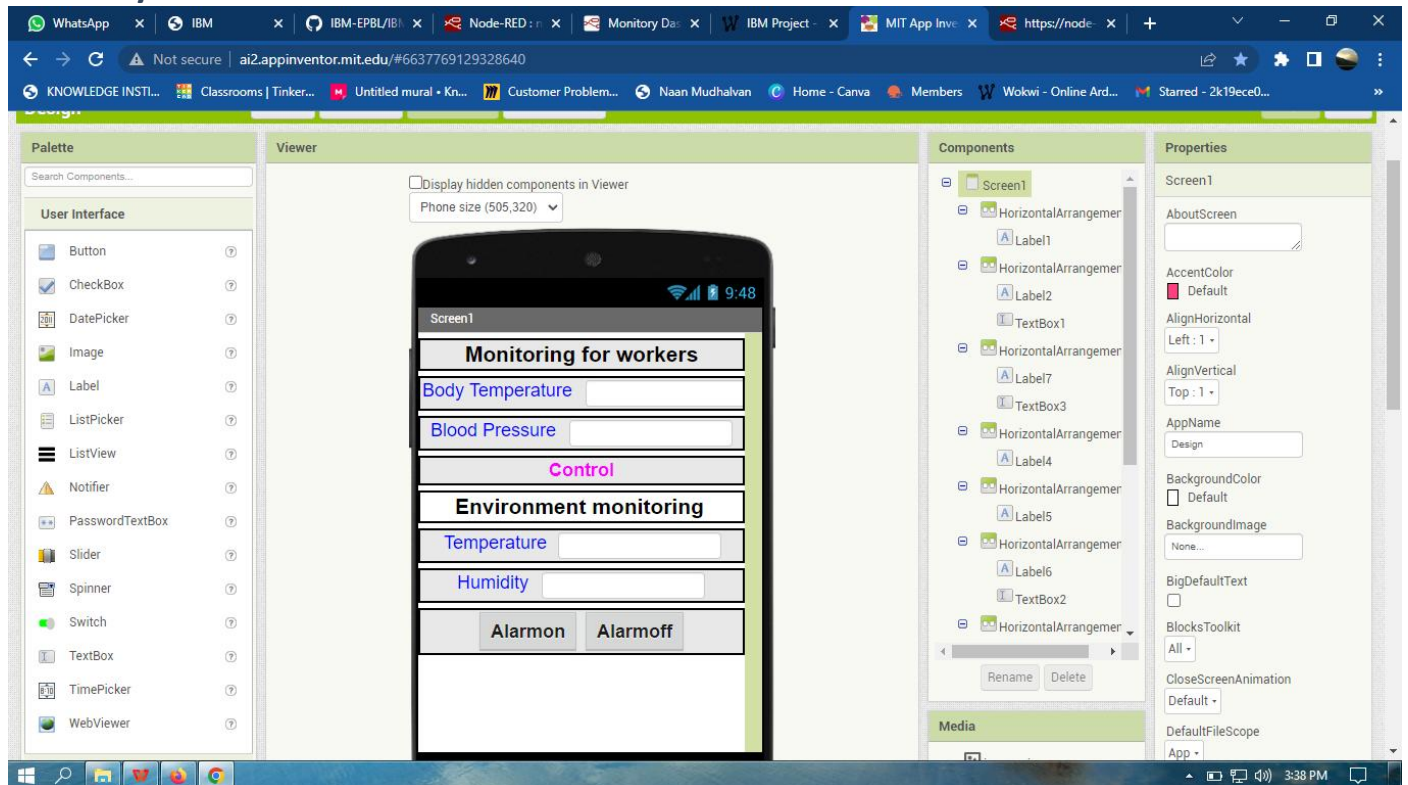


BUILDING MOBILE APP

Date	16 November 2022
Team ID	PNT2022TMID30240
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT

Design Your UI To Display The Temperature, Humidity



Configure The Application To Receive The Data From Cloud.

The screenshot shows the MIT App Inventor Monitory interface. The left sidebar contains a 'Blocks' panel with categories like Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. The 'Screen3' section is expanded, showing components like HorizontalArranger, Label1, VerticalArrangement5, HorizontalArranger, Label2, and TextBox1. The main 'Viewer' area displays a visual programming script:

- A 'when Clock1.Timer' block triggers a 'do' block.
- The 'do' block contains:
 - 'set Web1.Url to' followed by the URL: `https://node-red-zhcmv-2022-10-30.eu-gb.mybluemix.net`
 - 'call Web1.Get'
- Below this is a 'when Web1.GotText' block with a 'do' block containing:
 - 'set TextBox1.Text to' followed by a 'look up in pairs' block.
 - The 'look up in pairs' block has a 'key' of 'temperature' and a 'pairs' block.
 - The 'pairs' block contains a 'call Web1.JsonTextDecode' block, which then connects to a 'jsonText' block and finally to a 'get responseContent' block.
 - A 'notFound' block with the text 'not found' is connected to the 'pairs' block.
- Another 'set TextBox2.Text to' block follows, with a 'look up in pairs' block where the 'key' is 'heartrate'.
- The 'pairs' block for 'heartrate' also contains a 'call Web1.JsonTextDecode' block, followed by 'jsonText' and 'get responseContent' blocks.
- A 'notFound' block with the text 'not found' is connected to the 'pairs' block.

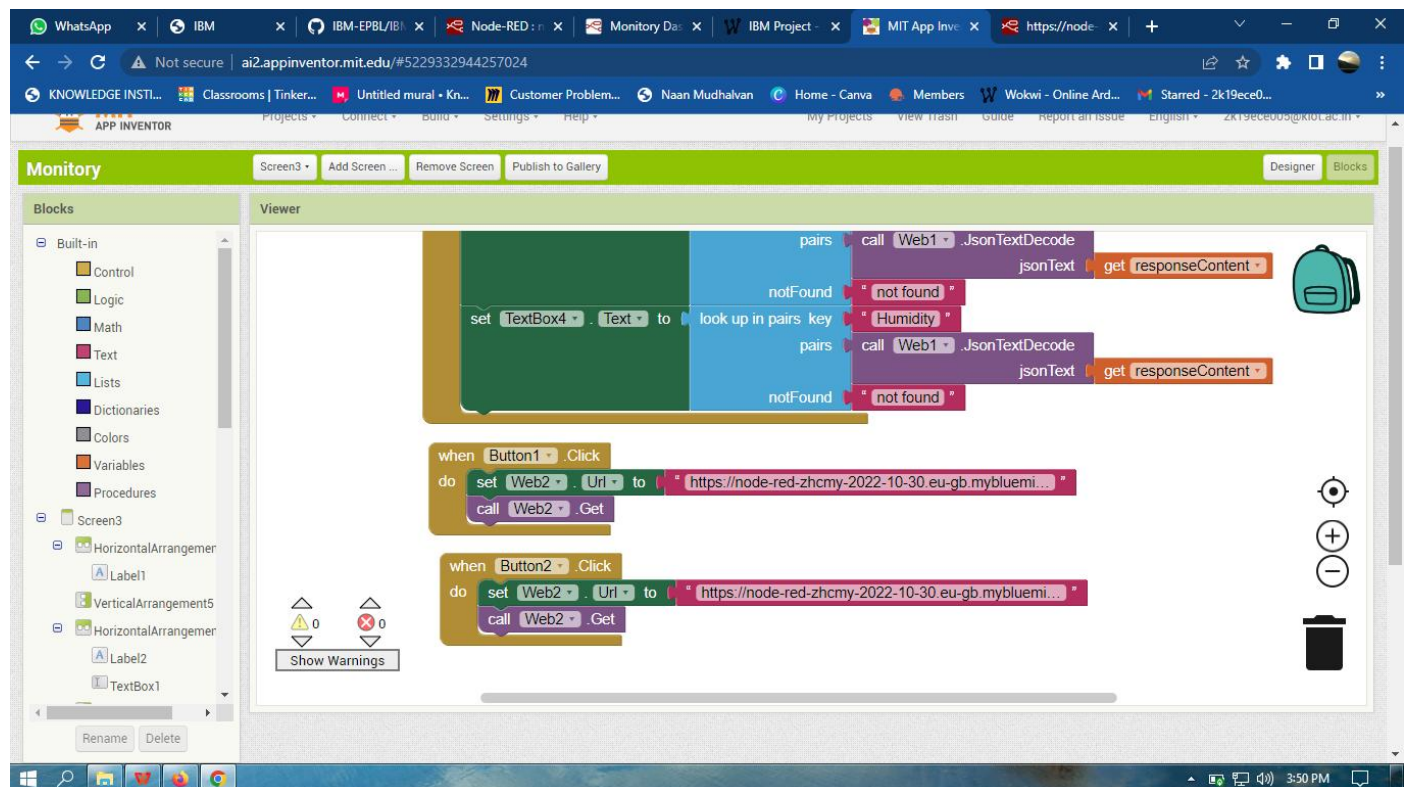
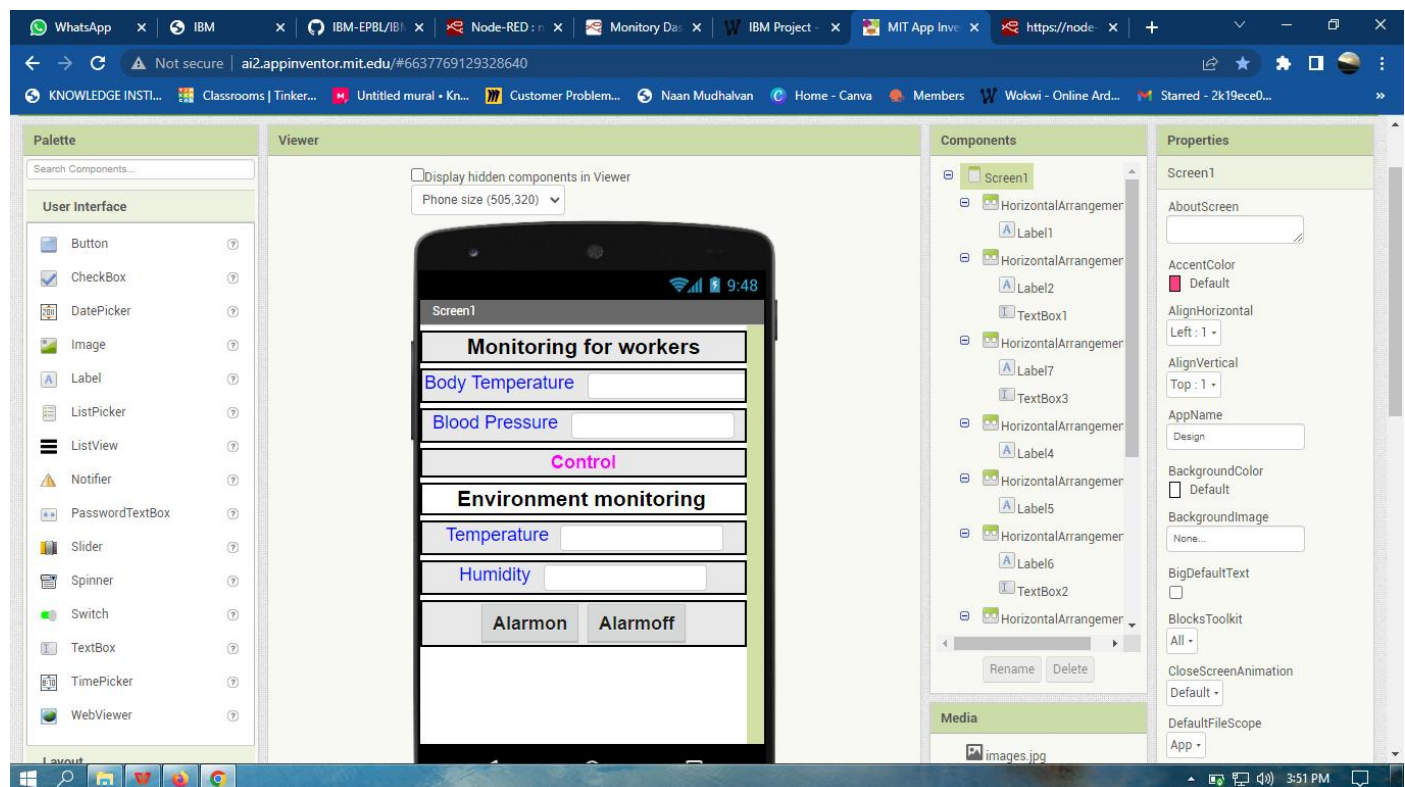
The bottom status bar shows the time as 3:42 PM.

This screenshot shows the same MIT App Inventor Monitory interface, but with a different configuration in the 'Viewer' area:

- A 'when Clock2.Timer' block triggers a 'do' block.
- The 'do' block contains:
 - 'set Web3.Url to' followed by the URL: `https://node-red-zhcmv-2022-10-30.eu-gb.mybluemix.net`
 - 'call Web3.Get'
- Below this is a 'when Web3.GotText' block with a 'do' block containing:
 - 'set TextBox3.Text to' followed by a 'look up in pairs' block.
 - The 'look up in pairs' block has a 'key' of 'Temperature' and a 'pairs' block.
 - The 'pairs' block contains a 'call Web1.JsonTextDecode' block, followed by 'jsonText' and 'get responseContent' blocks.
 - A 'notFound' block with the text 'not found' is connected to the 'pairs' block.
- Another 'set TextBox4.Text to' block follows, with a 'look up in pairs' block where the 'key' is 'Humidity'.
- The 'pairs' block for 'Humidity' also contains a 'call Web1.JsonTextDecode' block, followed by 'jsonText' and 'get responseContent' blocks.
- A 'notFound' block with the text 'not found' is connected to the 'pairs' block.

The bottom status bar shows the time as 3:42 PM.

Configure The Mobile App For Controlling Motor Using Buttons.



Mobile App Screenshots:

3:16 PM

25.2KB/s VoWiFi 79

Screen1

Welcome



Continue

3:18 PM

3.0KB/s 3G Vo WiFi 79

Screen2



User Name : Arvin Raj P

Password : 123456788

LOGIN

3:21 PM

8.5KB/s 8.5KB/s Vo WiFi 79

Screen3

Environmental parameters

Temperature. 46

Humidity . 66

Workers Body Condition

Temperature. 74.3

Heart Rate . 52.5

Alarm ON

Alarm OFF