

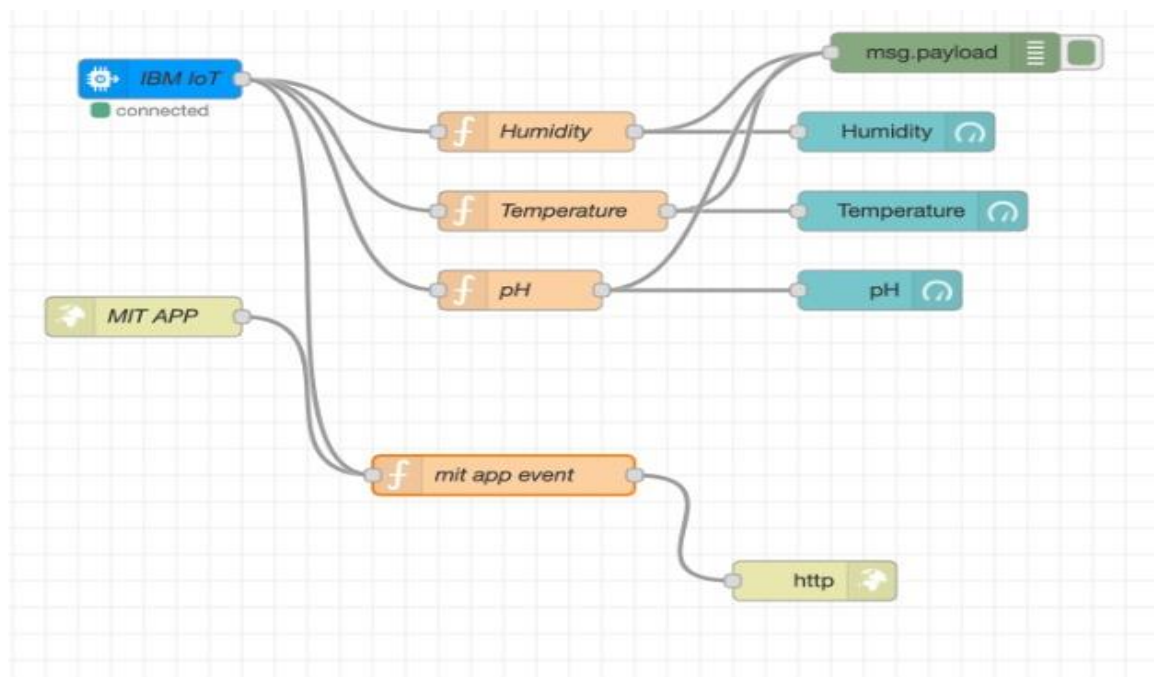
SPRINT – 4 DEVELOPMENT OF WEB APPLICATION USING USING NODE RED AND MIT APP INVENTOR

Date	19 November 2022
Team ID	PNT2022TMID35844
Project Name	IoT Based Smart Crop Protection System for Agriculture

DESCRIPTION :

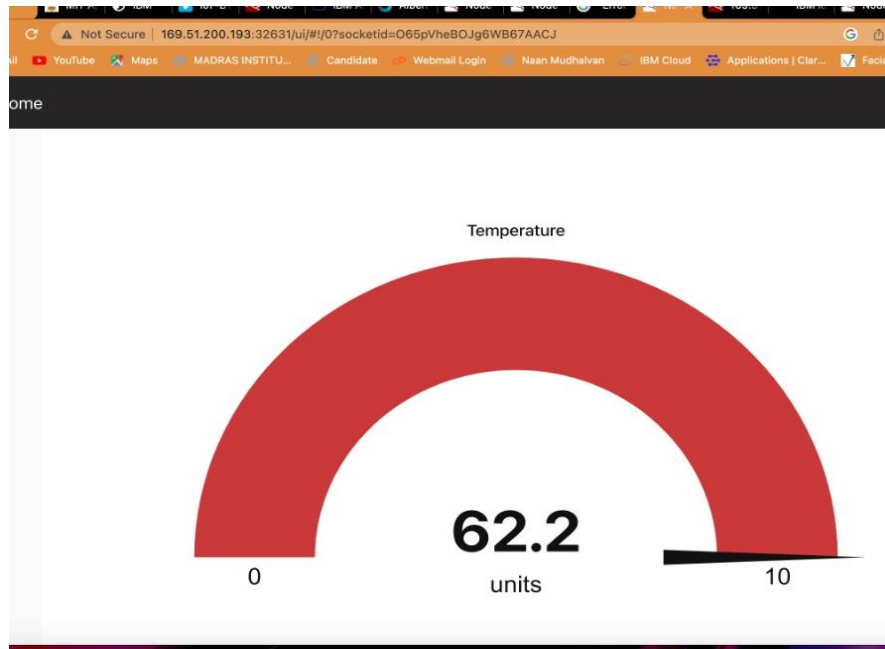
The parameters from the sensor have been sent to the OBM Cloud and Node red services have been used for mediation between the cloud and the user via MIT app inventer and web UI.

NODE RED FLOW :

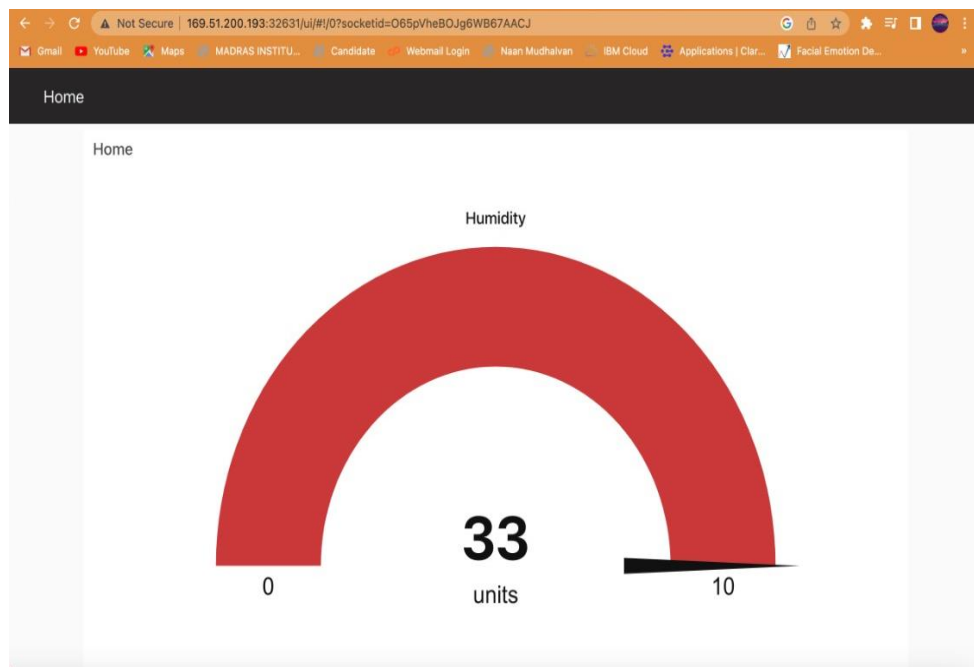


NODE RED WEB UI IMAGES :

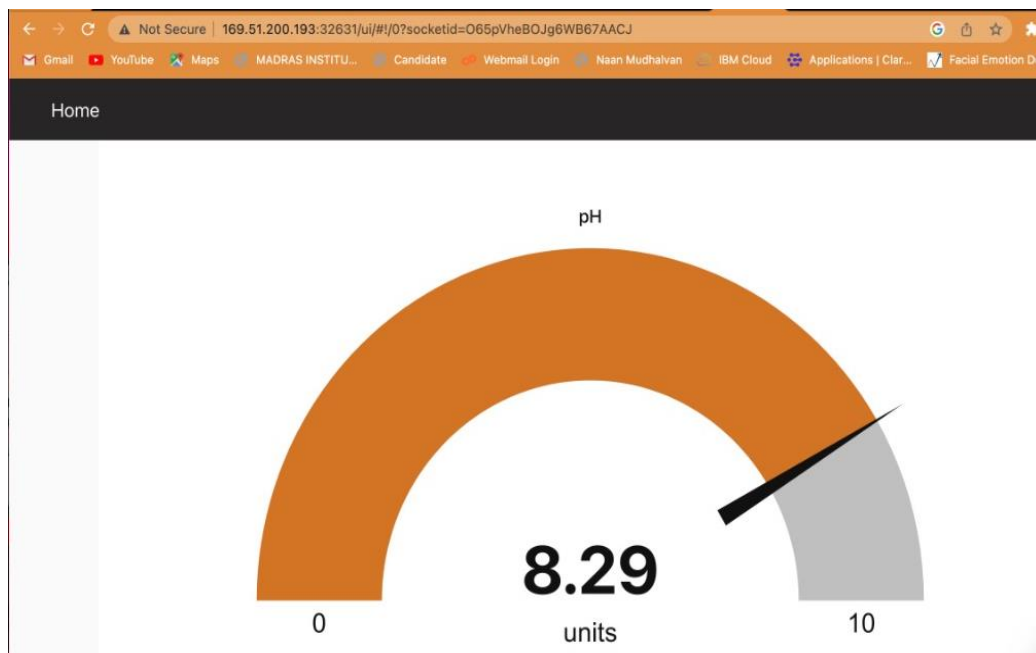
TEMPERATURE :



HUMIDITY :



PH VALUE :

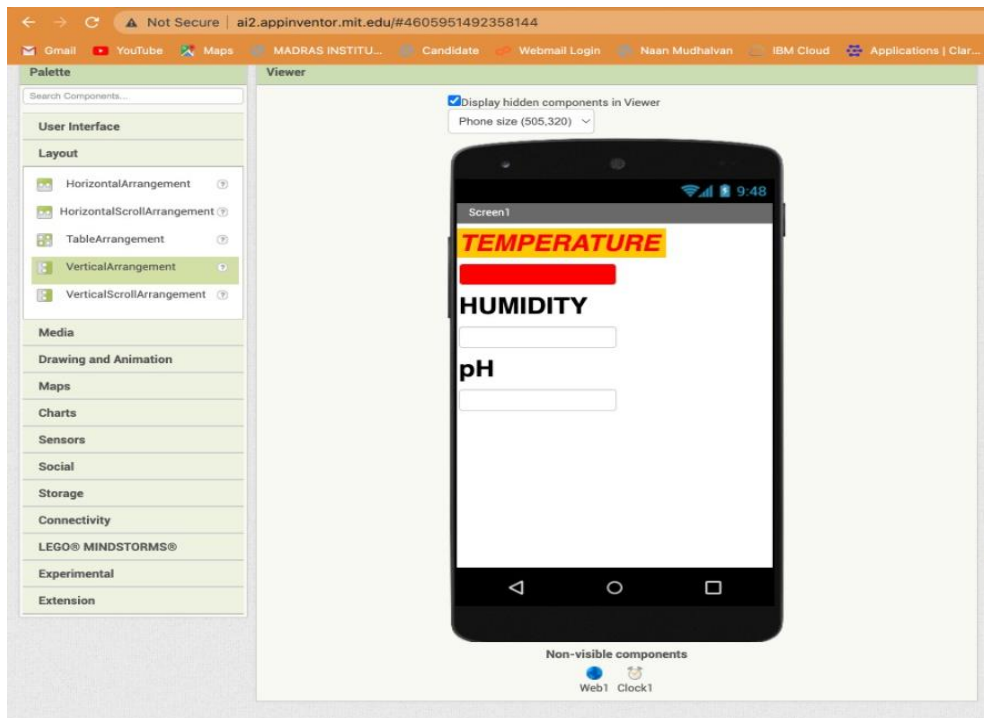


MIT APP INVENTOR :

The MIT App Inventor interface is shown, displaying a web client setup for a pH sensor. The left sidebar contains a "Built-in" section with categories like Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. Below this is a "Screen1" section with a list of UI components: Label1, TextBox1, Label2, TextBox2, Label3, TextBox3, and Web1. The main workspace shows a block-based code editor with the following logic:

- when Clock1.Timer** (do):
 - set Web1.Url to "http://169.51.200.193:32631/sensor"
 - call Web1.Get
- when Web1.GetText** (do):
 - get url to look up in pairs key "temp" (pairs call Web1.JsonTextDecode, jsonText get responseContent)
 - set TextBox1.Text to look up in pairs key "Humid" (pairs call Web1.JsonTextDecode, jsonText get responseContent)
 - set TextBox2.Text to look up in pairs key "pH" (pairs call Web1.JsonTextDecode, jsonText get responseContent)

The interface also includes a "Media" section with an "Upload File ..." button and a "Show Warnings" button at the bottom.



MOBILE APP SCREEN SHOT :

