

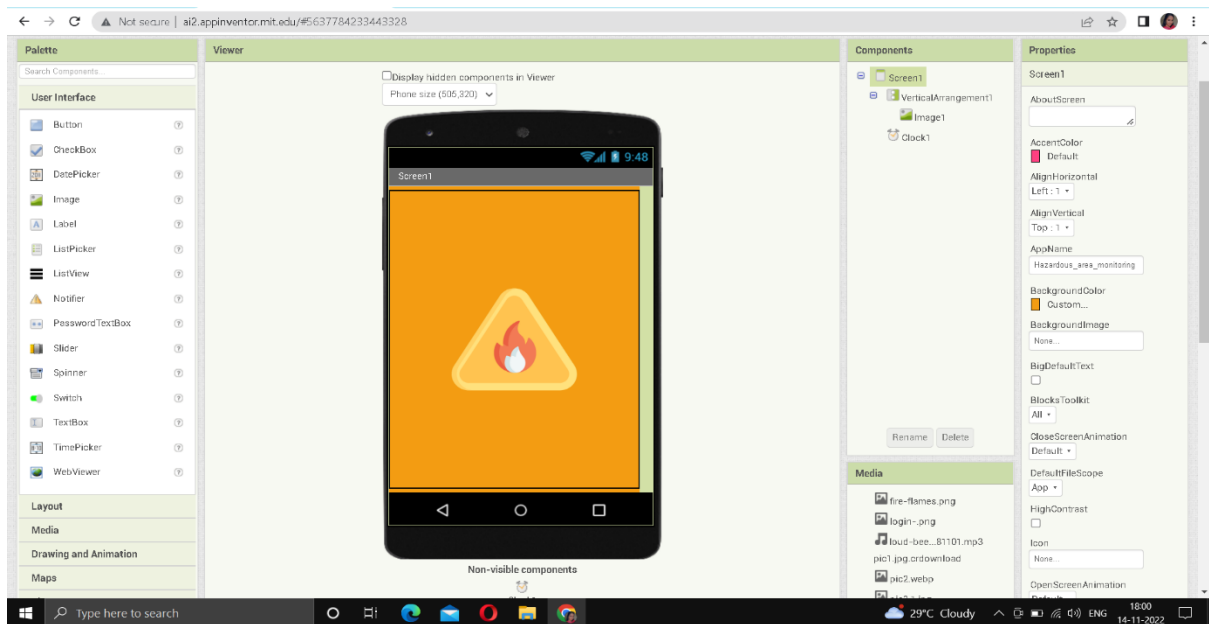
Hazardous Area Monitoring for Industrial Plant Powered by IoT

Team ID: PNT2022TMID41272

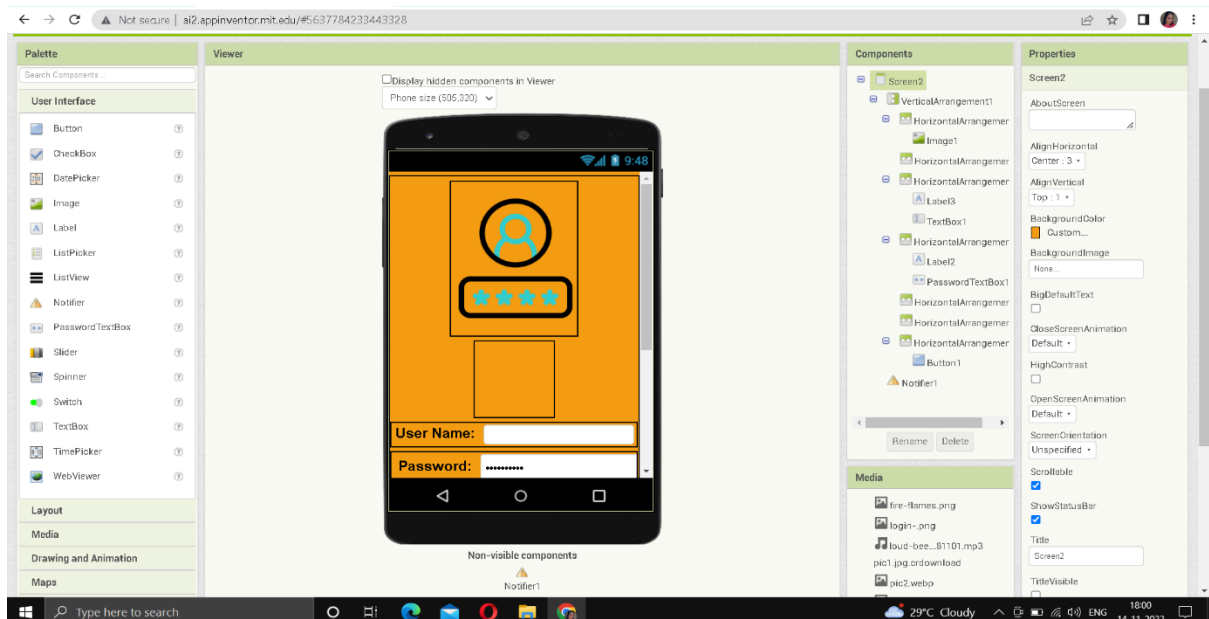
Project planning phase: Sprint04

STEP 1: Go to chrome and search MIT app inventor. Create projects and add screen also create a front end for our requirements.

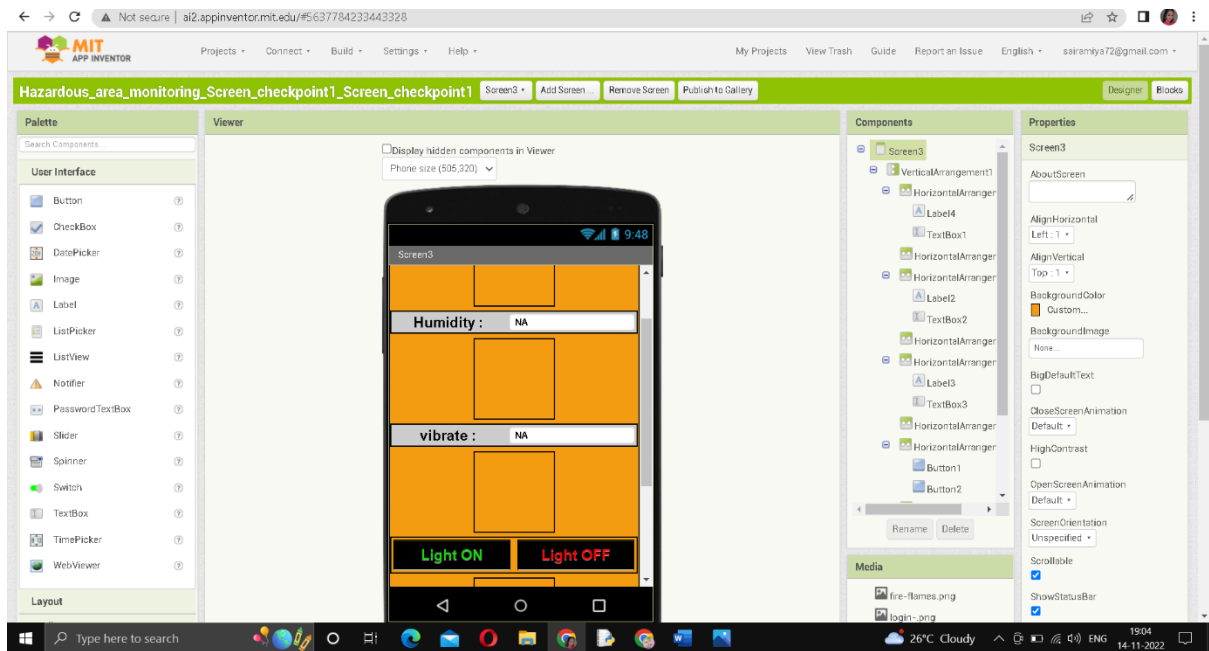
SCREEN1



SCREEN2

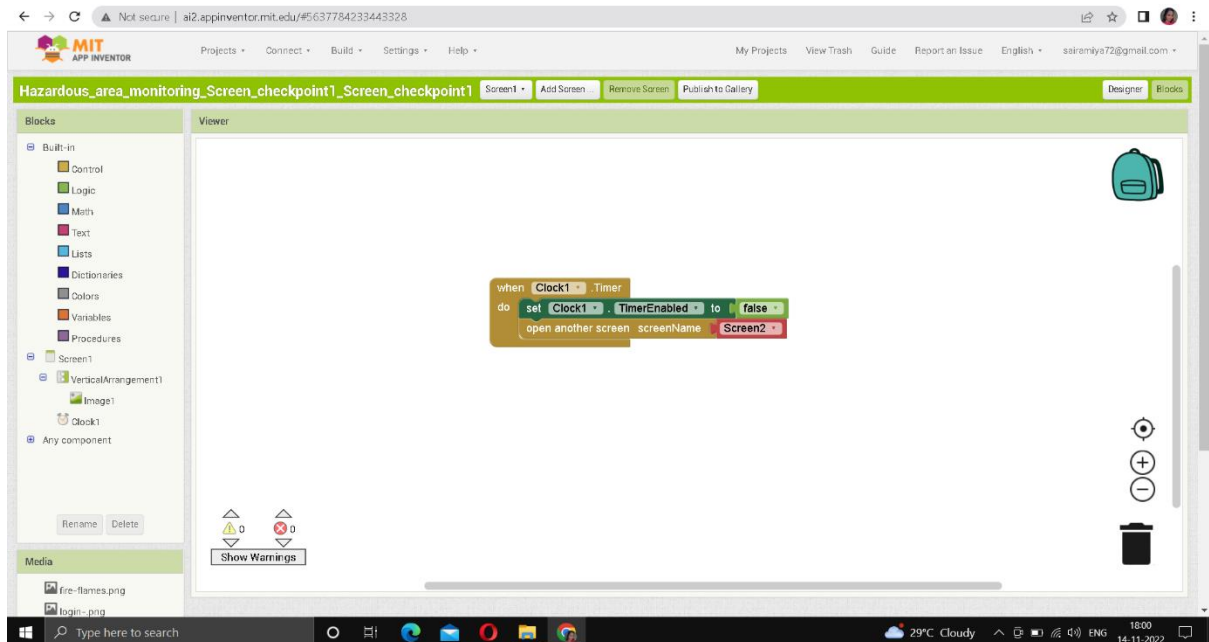


SCREEN3

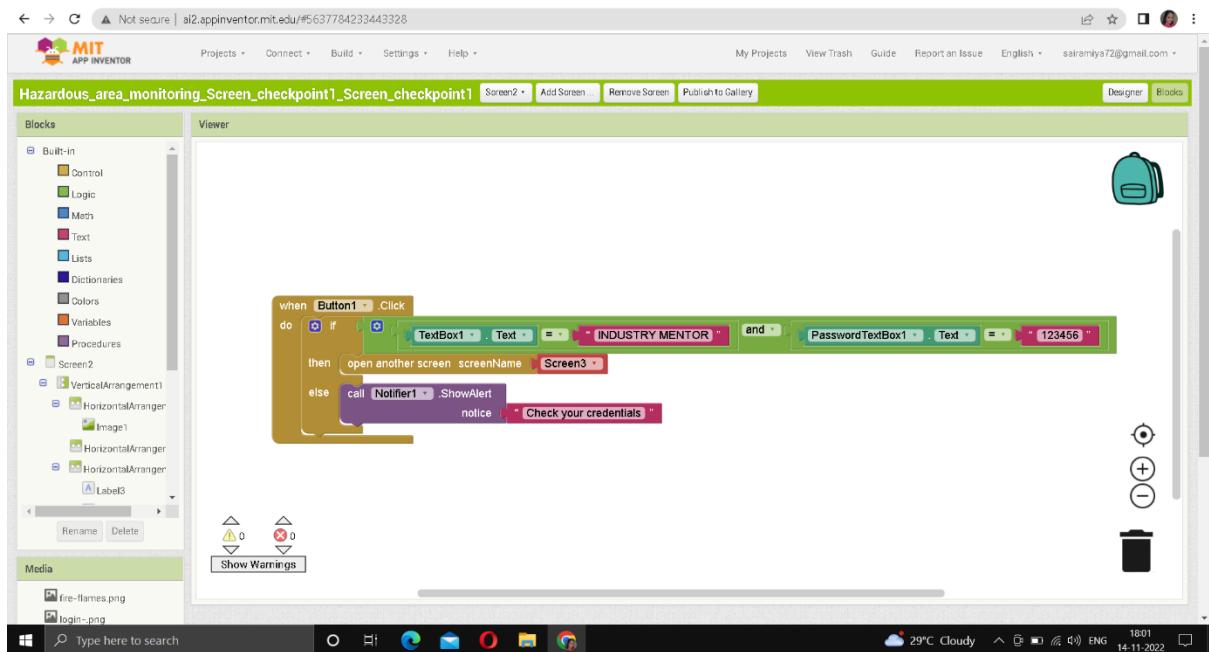


STEP 2: Go to the blocks and create a back end functions block.

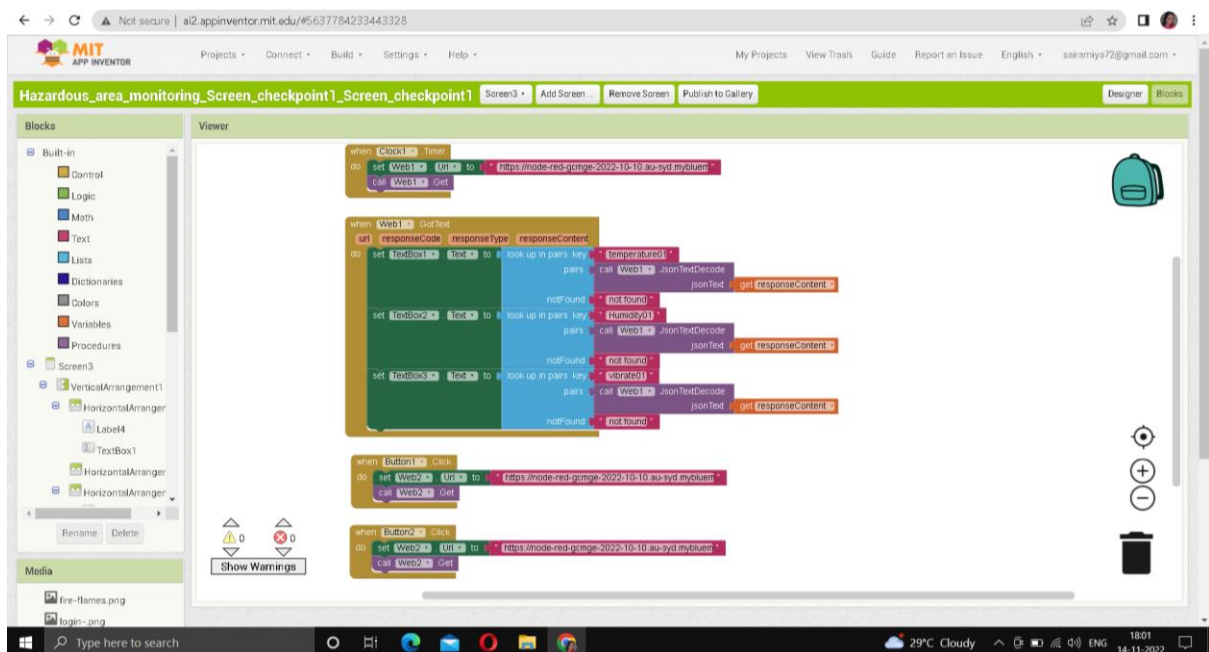
SCREEN1



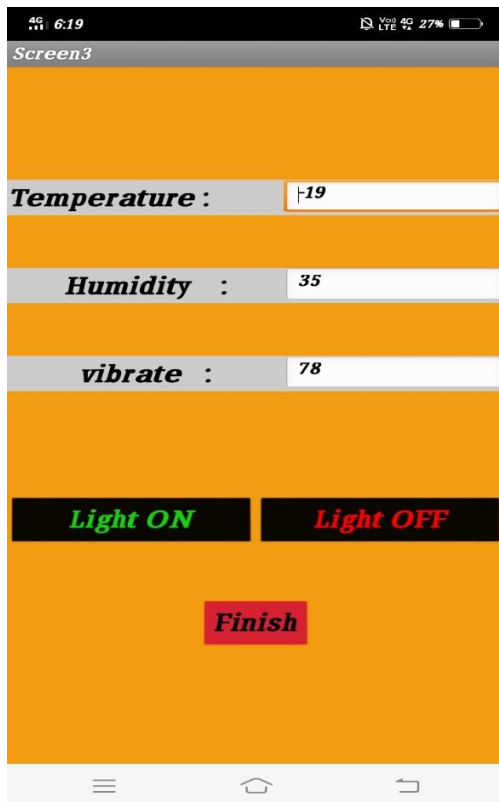
SCREEN2



SCREEN3



STEP 3: Run the python code and paste the node red url in the screen3. By this we can connect the mobile app and view the temperature , humidity and vibration parameters in the mobile app.



When we touch the light on and off in the mobile app you will receive the command in the python output page.

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Published temperature = 32 C Humidity = 24 % vibrate = 67 hz to IBM Watson
Published temperature = 39 C Humidity = 69 % vibrate = 62 hz to IBM Watson
Warning!!!!...Temperature is high
Published temperature = 27 C Humidity = 80 % vibrate = 80 hz to IBM Watson
Published temperature = 54 C Humidity = 97 % vibrate = 77 hz to IBM Watson
Published temperature = -12 C Humidity = 72 % vibrate = 85 hz to IBM Watson
Published temperature = -12 C Humidity = 95 % vibrate = 78 hz to IBM Watson
Command received: lighton
led is on
Published temperature = 19 C Humidity = 15 % vibrate = 59 hz to IBM Watson
Published temperature = 82 C Humidity = 92 % vibrate = 24 hz to IBM Watson
Warning!!!!...Temperature is high
Published temperature = 25 C Humidity = 1 % vibrate = 35 hz to IBM Watson
Published temperature = 80 C Humidity = 48 % vibrate = 92 hz to IBM Watson
Published temperature = -11 C Humidity = 18 % vibrate = 43 hz to IBM Watson
Command received: lightoff
led is off
Published temperature = -7 C Humidity = 77 % vibrate = 97 hz to IBM Watson
Published temperature = 33 C Humidity = 69 % vibrate = 88 hz to IBM Watson
Published temperature = 84 C Humidity = 64 % vibrate = 38 hz to IBM Watson
Warning!!!!...Temperature is high
Published temperature = 34 C Humidity = 11 % vibrate = 12 hz to IBM Watson
Published temperature = 75 C Humidity = 6 % vibrate = 69 hz to IBM Watson
Published temperature = 66 C Humidity = 49 % vibrate = 51 hz to IBM Watson
Published temperature = -17 C Humidity = 4 % vibrate = 45 hz to IBM Watson
Published temperature = 81 C Humidity = 26 % vibrate = 20 hz to IBM Watson
Warning!!!!...Temperature is high
Published temperature = 4 C Humidity = 12 % vibrate = 38 hz to IBM Watson
Published temperature = 80 C Humidity = 95 % vibrate = 31 hz to IBM Watson
Command received: lighton
led is on
Published temperature = -14 C Humidity = 33 % vibrate = 70 hz to IBM Watson
Published temperature = -5 C Humidity = 83 % vibrate = 60 hz to IBM Watson
Published temperature = 39 C Humidity = 72 % vibrate = 69 hz to IBM Watson
Published temperature = 5 C Humidity = 55 % vibrate = 60 hz to IBM Watson
Published temperature = 86 C Humidity = 51 % vibrate = 53 hz to IBM Watson
Warning!!!!...Temperature is high
Published temperature = -20 C Humidity = 56 % vibrate = 87 hz to IBM Watson
Command received: lightoff
led is off
Published temperature = -11 C Humidity = 74 % vibrate = 72 hz to IBM Watson
Published temperature = 35 C Humidity = 85 % vibrate = 11 hz to IBM Watson
Published temperature = 34 C Humidity = 10 % vibrate = 95 hz to IBM Watson
Published temperature = -10 C Humidity = 61 % vibrate = 36 hz to IBM Watson
Published temperature = 46 C Humidity = 78 % vibrate = 3 hz to IBM Watson
Published temperature = 56 C Humidity = 69 % vibrate = 40 hz to IBM Watson
Published temperature = 95 C Humidity = 32 % vibrate = 20 hz to IBM Watson
```