Sprint-4

Date-15 oct 2022
Team ID-PNT2022TMID50096
Project Name Project - Industry-Specific Intelligent Fire Management System

Sprint-4	US-1	Create Web UI in Node- Red 10 High	Sneha K Thanalakshmi M Ramya R Santhiya V
Sprint-4	US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB 10 High	Sneha K Thanalakshmi M Ramya R Santhiya V

US - 1 Create Web UI in Node- Red

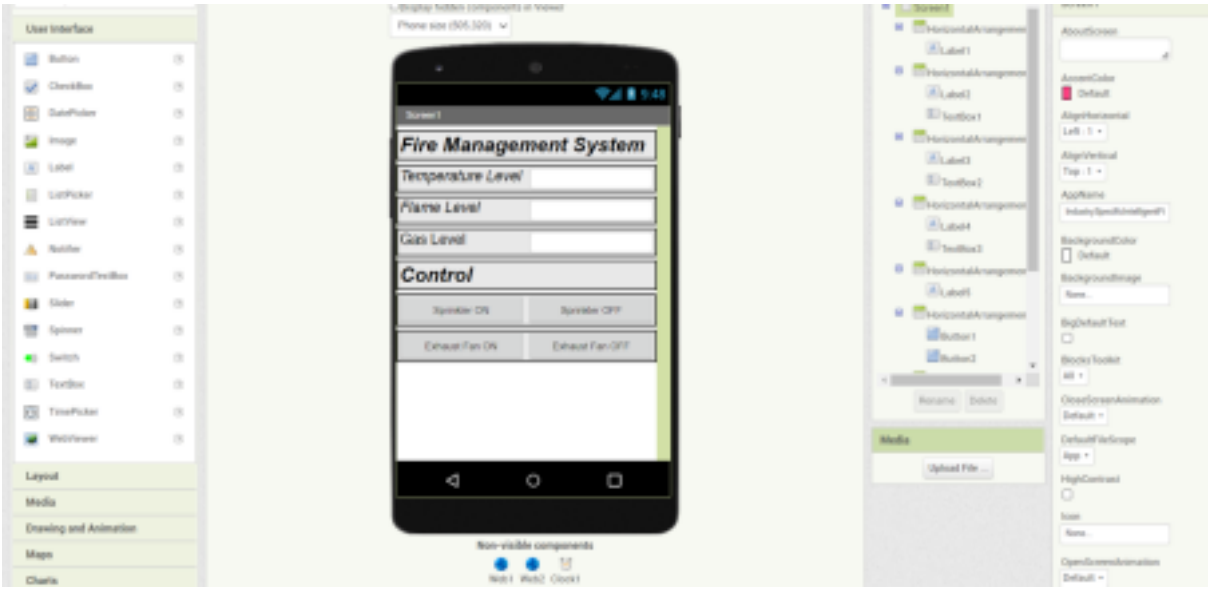

fig 1 : Mobile App Layout for our project using MIT App Inventor

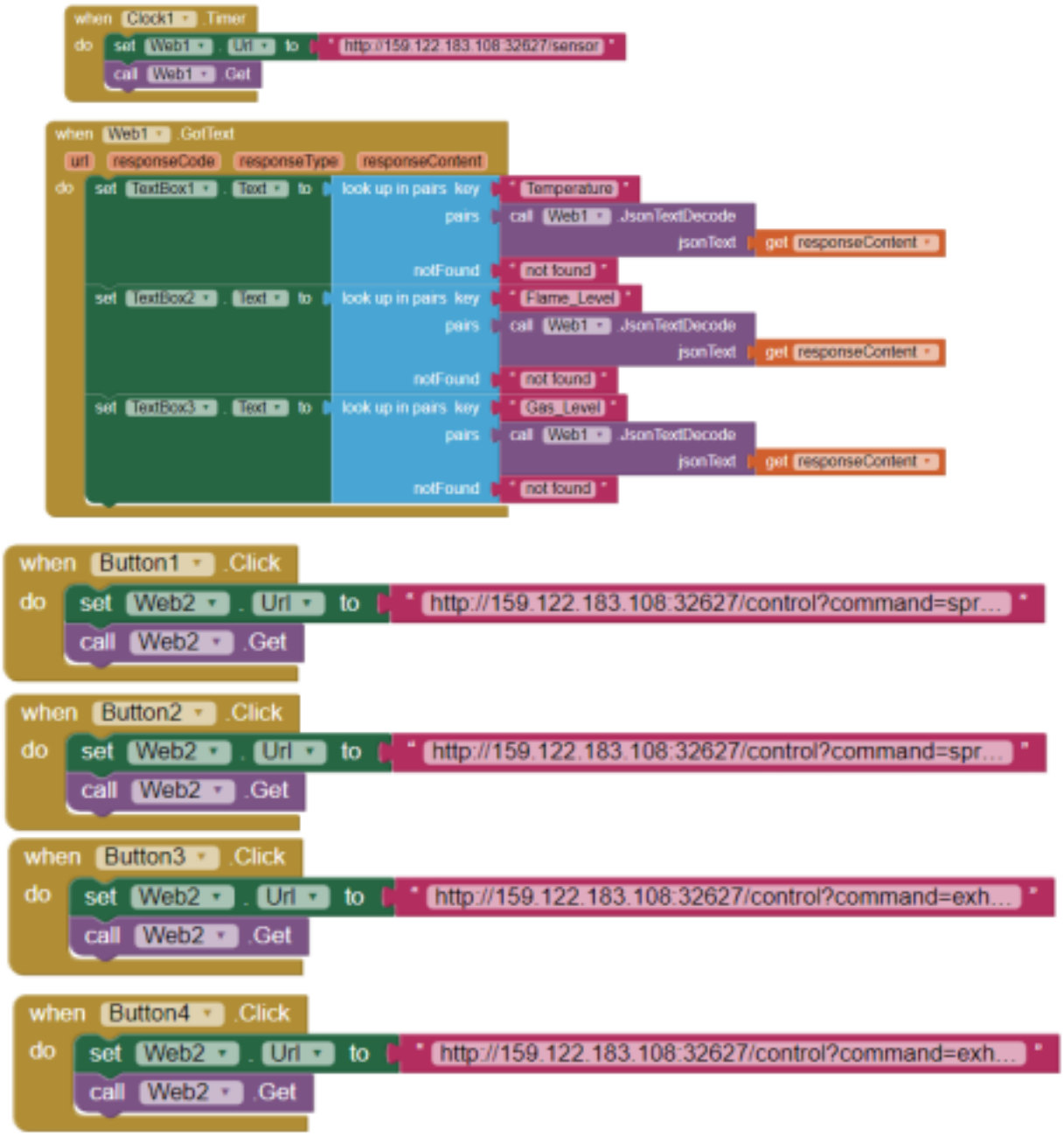

fig 2: Blocks of your MIT AI2 Companion app

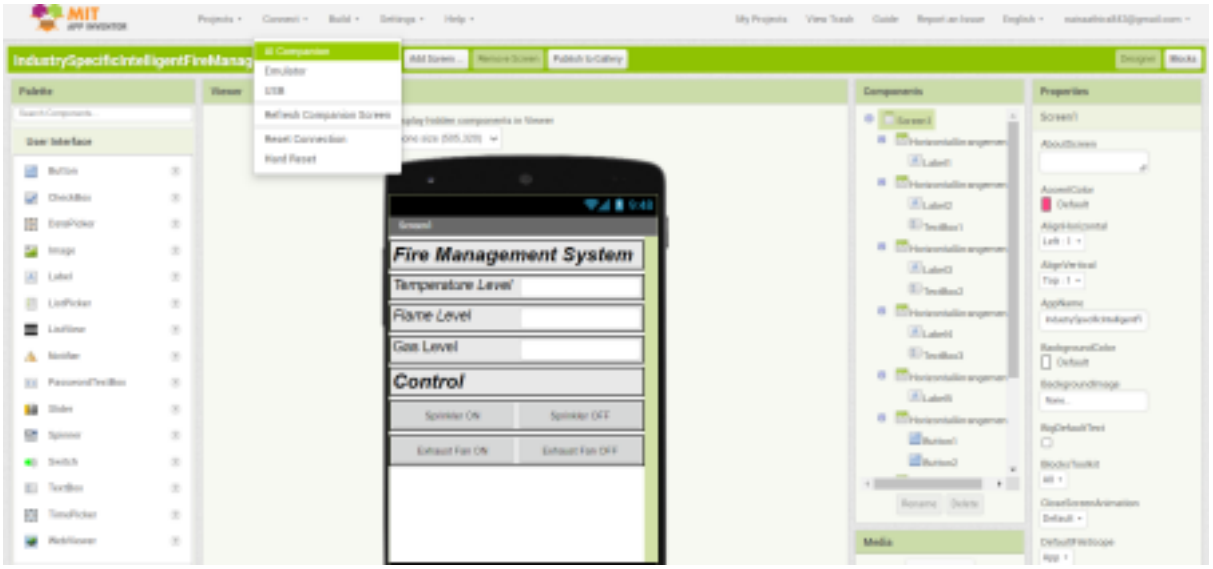

fig 3:Connecting the layout design to the mobile app MIT AI2 Companion

fig 4:QR code generating in the MIT App inventor

```
Published Temperature = 72 C Flame_Level = 64 % Gas_Level = 66 % to IBM Watson
Command received: sprinkleron
Sprinkler is on
Published Temperature = 46 C Flame_Level = 64 % Gas_Level = 7 % to IBM Watson
Command received: sprinkleroff
Sprinkler is off
Published Temperature = 65 C Flame_Level = 58 % Gas_Level = 6 % to IBM Watson
Command received: exhaustfanon
Exhaust Fan ON
Published Temperature = 36 C Flame_Level = 59 % Gas_Level = 93 % to IBM Watson
Command received: exhaustfanoff
Exhaust Fan OFF
Published Temperature = 19 C Flame_Level = 93 % Gas_Level = 88 % to IBM Watson
Published Temperature = 47 C Flame_Level = 86 % Gas_Level = 15 % to IBM Watson
Published Temperature = 97 C Flame_Level = 58 % Gas_Level = 63 % to IBM Watson
```

fig 5: random values generating in the python code

fig 6: the generated values are shown in MIT AI2 Companion app