Sprint-4

Date	19 September 2022
Team ID	PNT2022TMID4740
Project Name	Project - Industry-Specific Intelligent Fire Management System

Sprint-4	US-1	Create Web UI in Node- Red	10	High	Indhumathi K,Hariharan S,Athira V R
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	Indhumathi K,Hariharan S,Athira V R,Arun Raj G

US - 1 Create Web UI in Node- Red

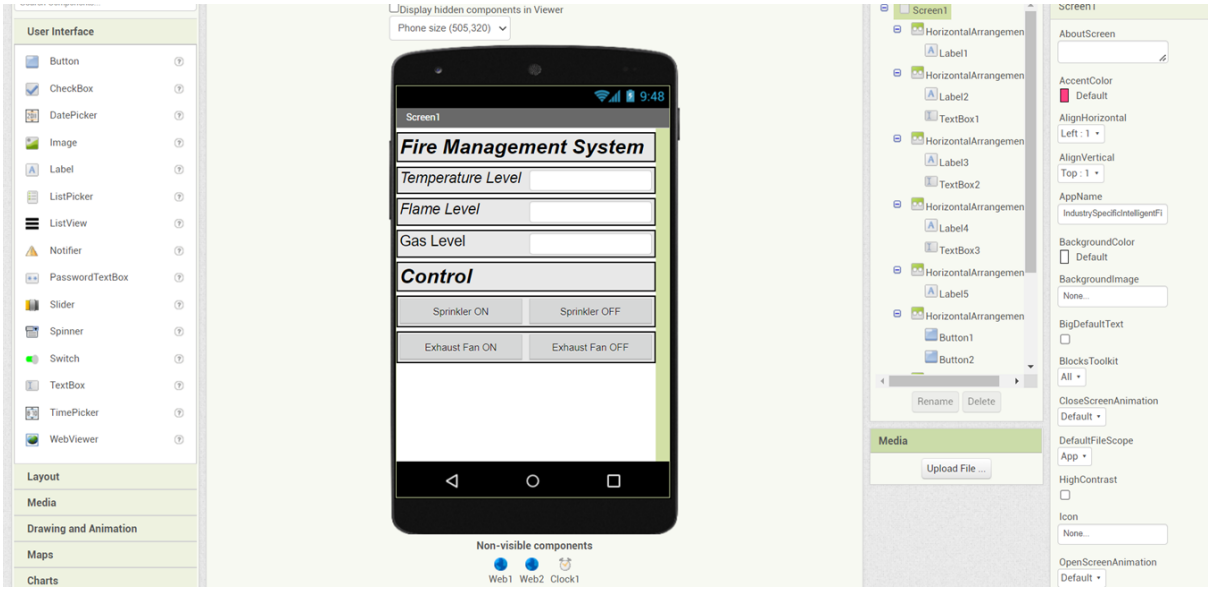


fig 1 : Mobile App Layout for our project using MIT App Inventor

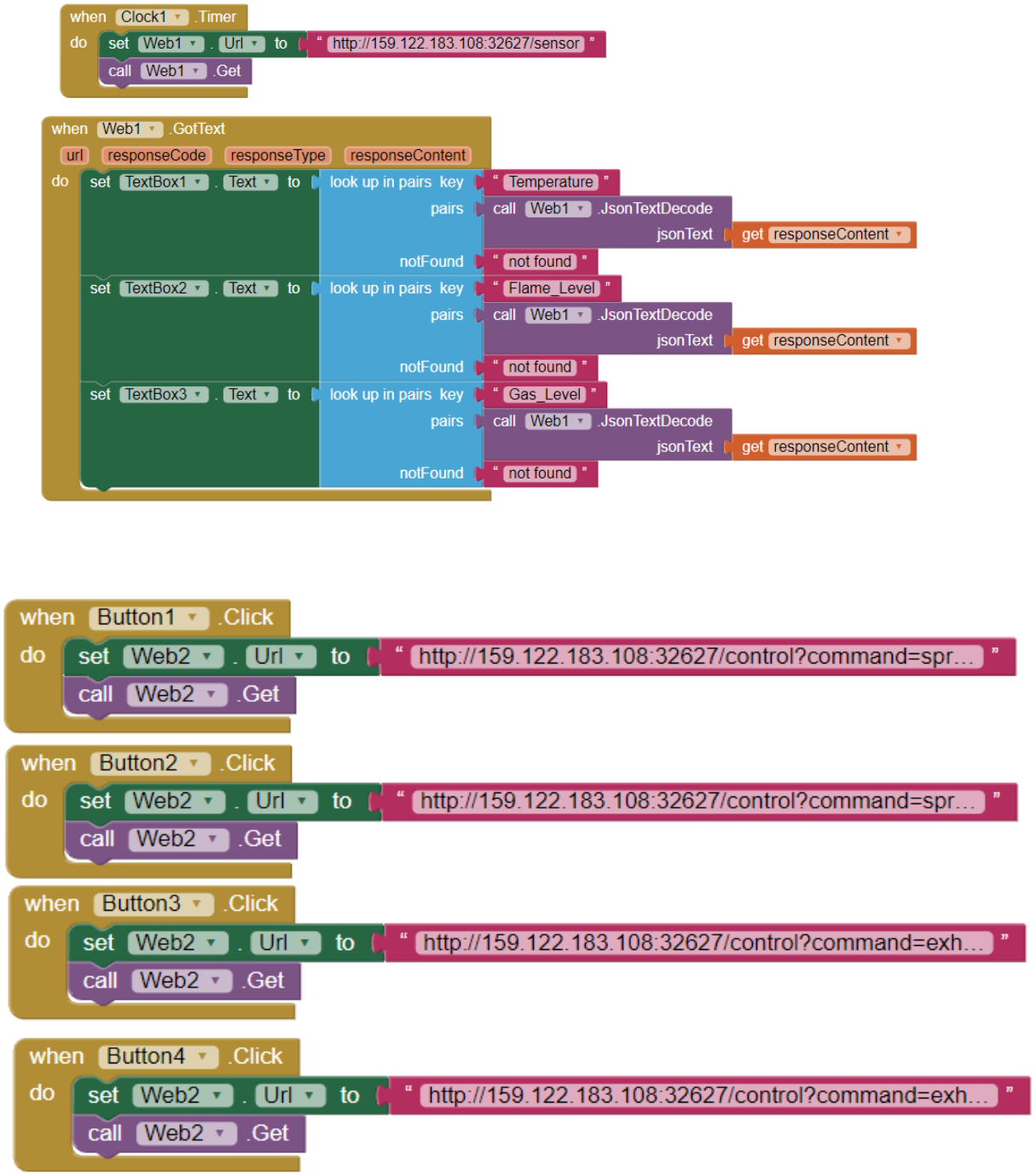


fig 2: Blocks of your MIT AI2 Companion app

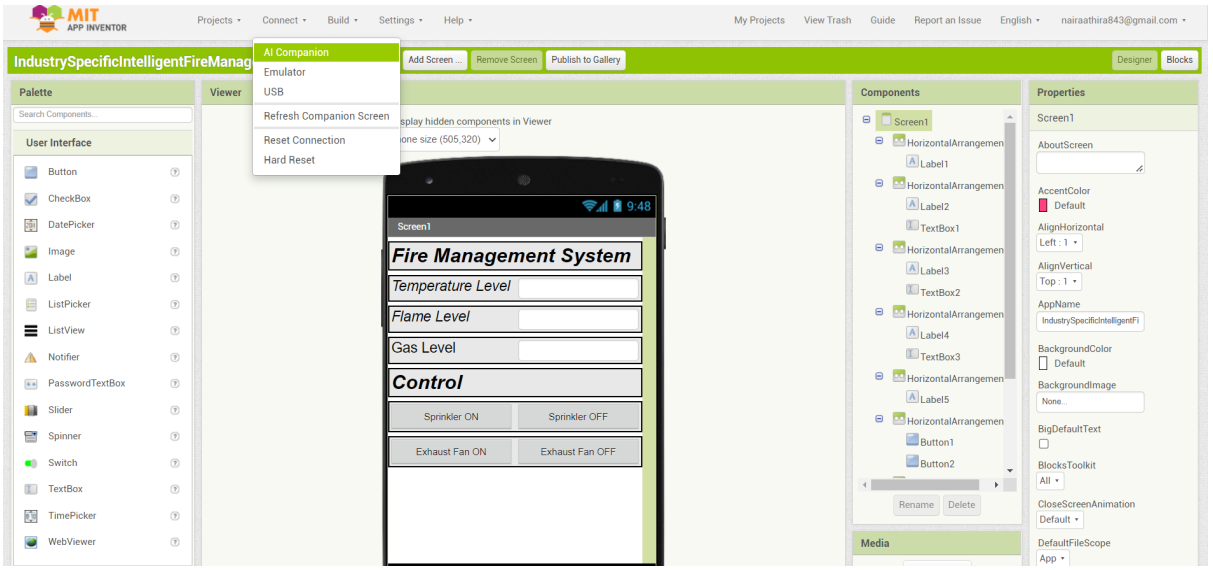


fig 3:Connecting the layout design to the mobile app MIT AI2 Companion

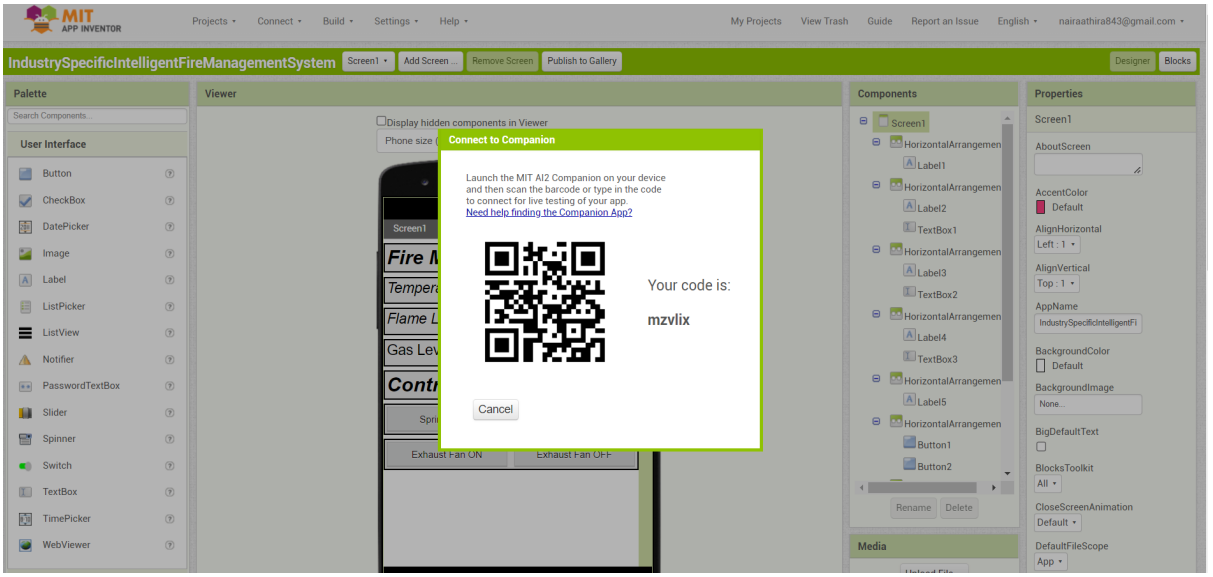
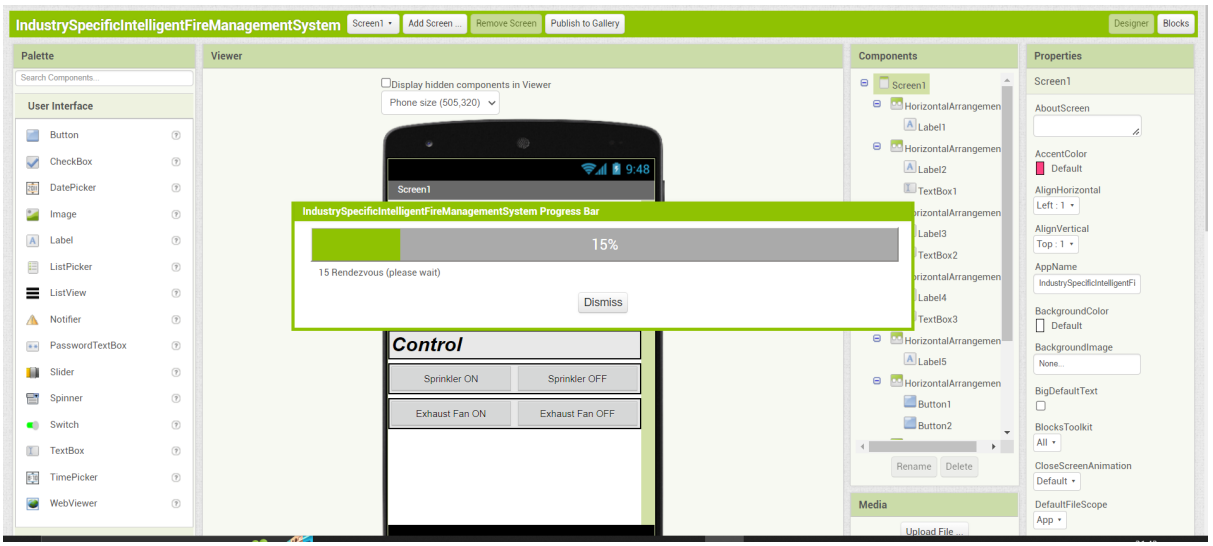


fig 4:QR code generating in the MIT App inventor



```
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