

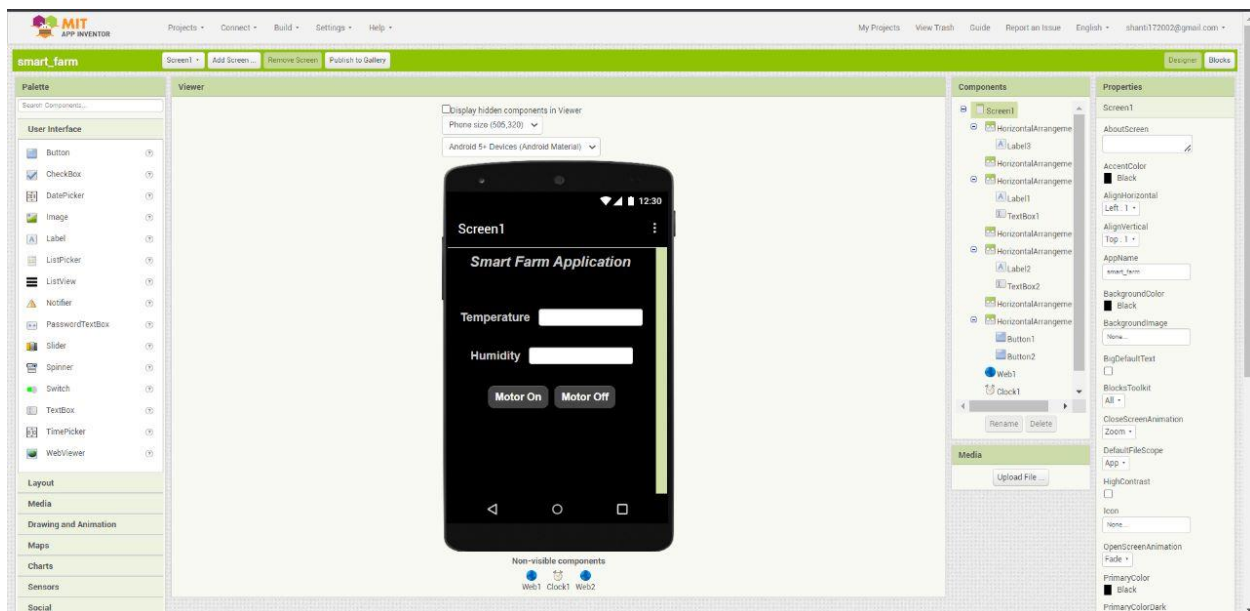
SPRINT-4

Date	13 November 2022
Project Name	Smart Farmer - IoT Enabled Smart Farming Application
TEAM ID	PNT2022TMID15139

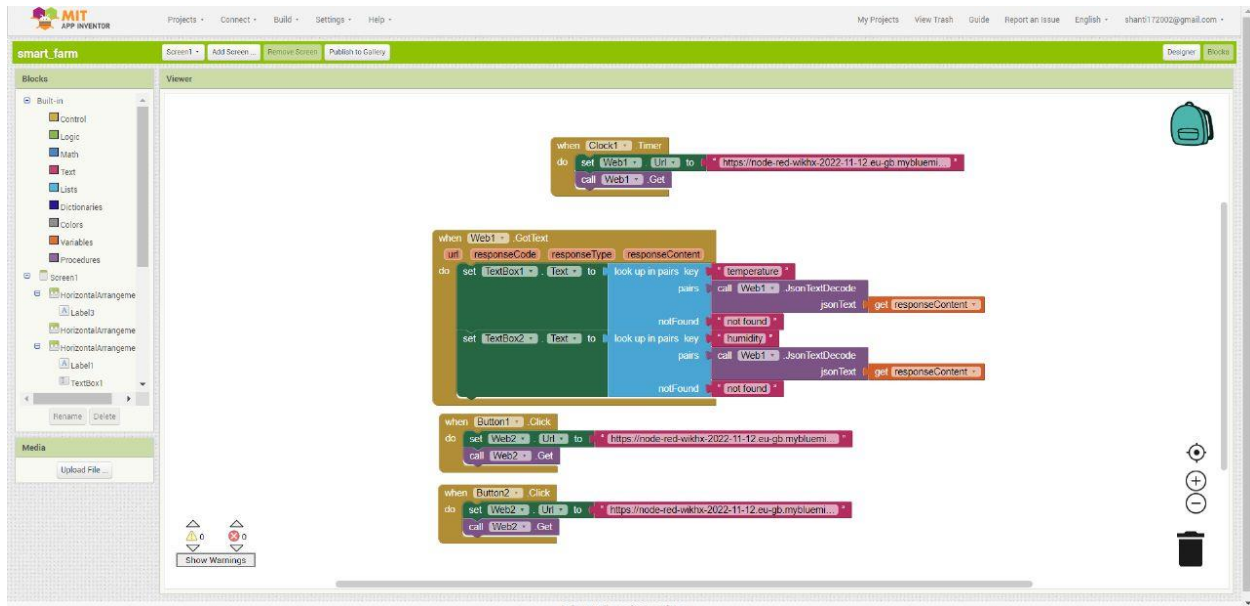
PROCEDURE:

- To create MIT app inventor, go to MIT inventor website.
- Sign up the page with required details and click login button.
- Start building the application by using left panel that consist of palette, user interface, layout, media etc.,
- Click and drag the required BUTTON's to design the User Interface.
- Complete the UI works and check the interface.
- Add the clock and web as non-visible components.
- Click build option and export the application.
- Install the application and test the output in IDLE Python software.

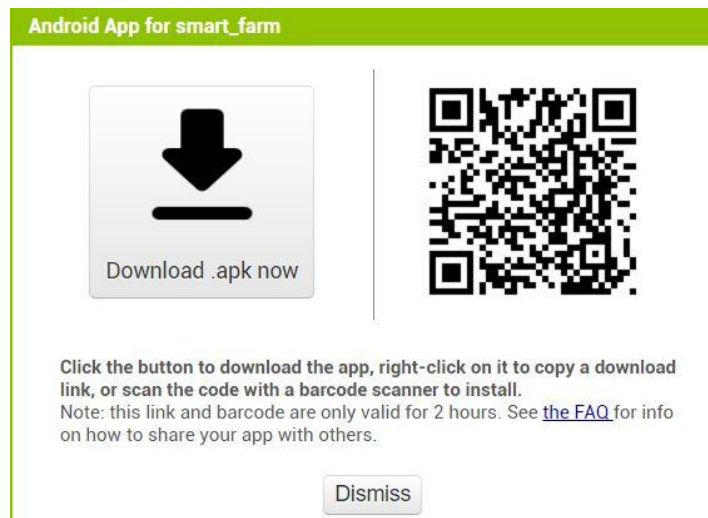
Building the Application



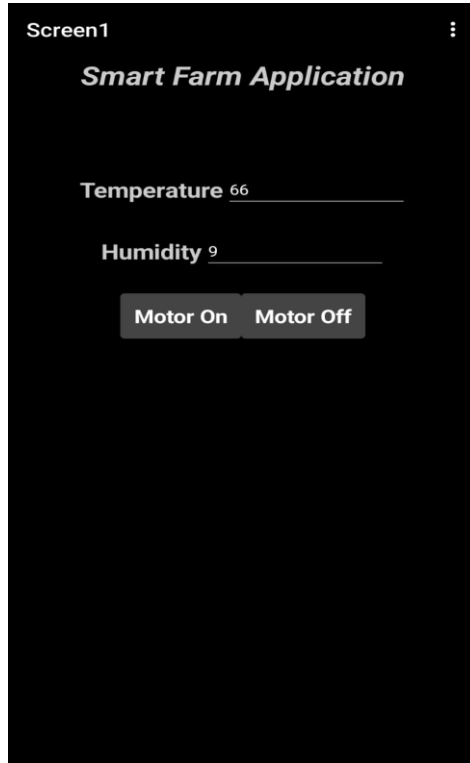
Constructing the Blocks and interfacing into Node-RED



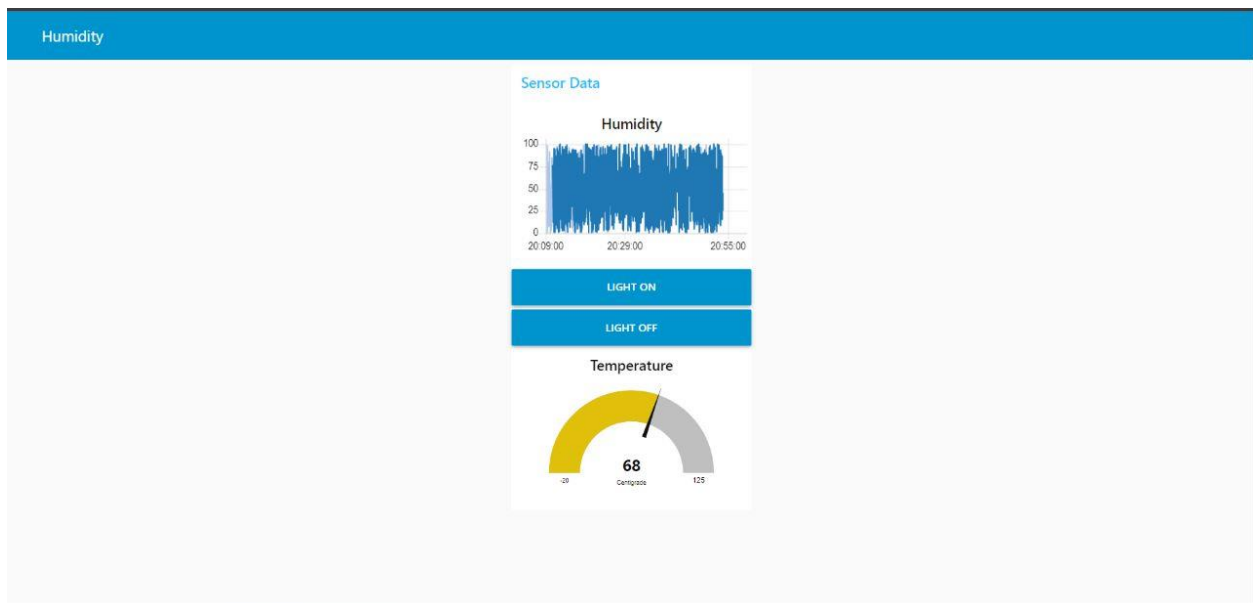
Exporting the Application



Running the App



Creating Web UI from Node-RED



Output for Web UI

```
*IDLE Shell 3.9.8*
File Edit Shell Debug Options Window Help
*****//LIGHTS ARE ON//*****
Message received from IBM IoT Platform: lightoff
*****//LIGHTS ARE OFF//*****
Published data Successfully: %s {'temperature': 92, 'humidity': 48}
Published data Successfully: %s {'temperature': 42, 'humidity': 31}
Published data Successfully: %s {'temperature': 38, 'humidity': 36}
Published data Successfully: %s {'temperature': 18, 'humidity': 70}
Published data Successfully: %s {'temperature': 65, 'humidity': 27}
Published data Successfully: %s {'temperature': 77, 'humidity': 9}
Published data Successfully: %s {'temperature': -15, 'humidity': 53}
Published data Successfully: %s {'temperature': 91, 'humidity': 9}
Published data Successfully: %s {'temperature': 98, 'humidity': 40}
Published data Successfully: %s {'temperature': -7, 'humidity': 33}
Published data Successfully: %s {'temperature': 107, 'humidity': 19}
Message received from IBM IoT Platform: lighton
*****//LIGHTS ARE ON//*****
Message received from IBM IoT Platform: lightoff
*****//LIGHTS ARE OFF//*****
Published data Successfully: %s {'temperature': 77, 'humidity': 98}
Message received from IBM IoT Platform: lighton
*****//LIGHTS ARE ON//*****
Message received from IBM IoT Platform: lightoff
*****//LIGHTS ARE OFF//*****
Published data Successfully: %s {'temperature': 80, 'humidity': 14}
Message received from IBM IoT Platform: lighton
*****//LIGHTS ARE ON//*****
Published data Successfully: %s {'temperature': -3, 'humidity': 53}
Message received from IBM IoT Platform: lightoff
*****//LIGHTS ARE OFF//*****
Published data Successfully: %s {'temperature': -17, 'humidity': 41}
Message received from IBM IoT Platform: lighton
*****//LIGHTS ARE ON//*****
Message received from IBM IoT Platform: lightoff
*****//LIGHTS ARE OFF//*****
Published data Successfully: %s {'temperature': 62, 'humidity': 8}
Published data Successfully: %s {'temperature': 51, 'humidity': 73}
Published data Successfully: %s {'temperature': 114, 'humidity': 63}
Published data Successfully: %s {'temperature': 84, 'humidity': 85}
Published data Successfully: %s {'temperature': 39, 'humidity': 75}
```

Ln: 45 Col: 39