Assignment -3

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★ Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

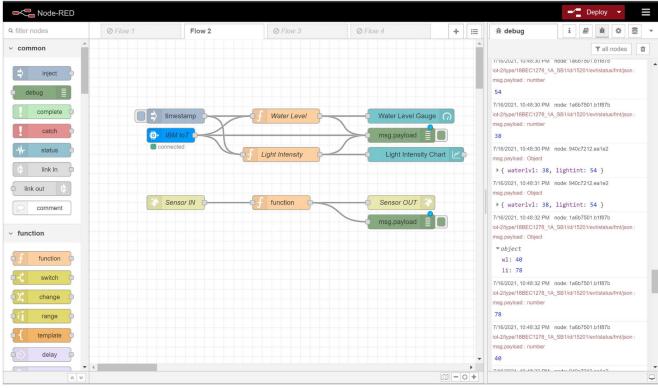


Fig-1: Node-RED flow

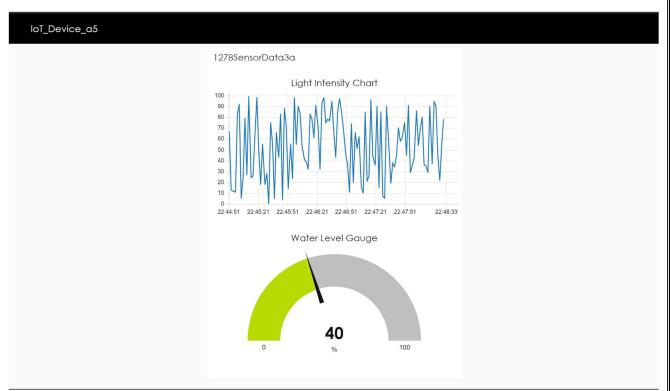


Fig-2: Node-RED UI Dashboard

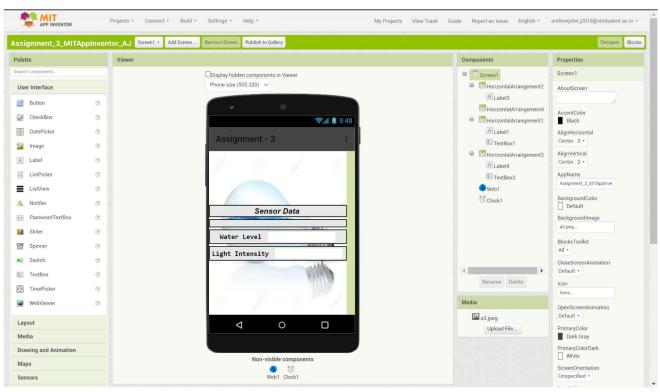


Fig-3: MIT App Inventor Designer

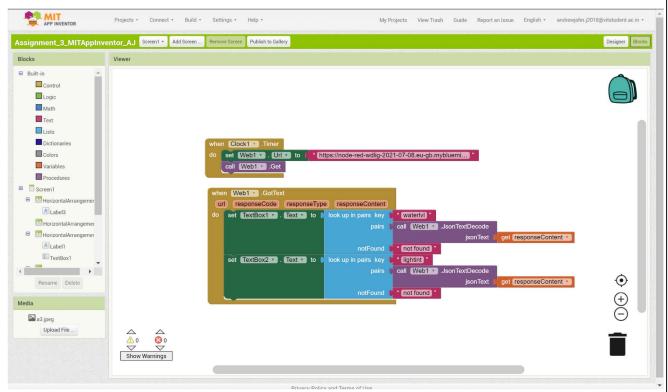


Fig-4: MIT App Inventor Blocks

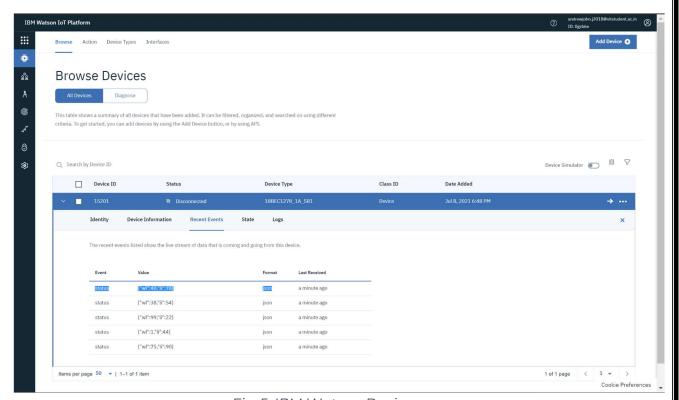


Fig-5: IBM Watson Device

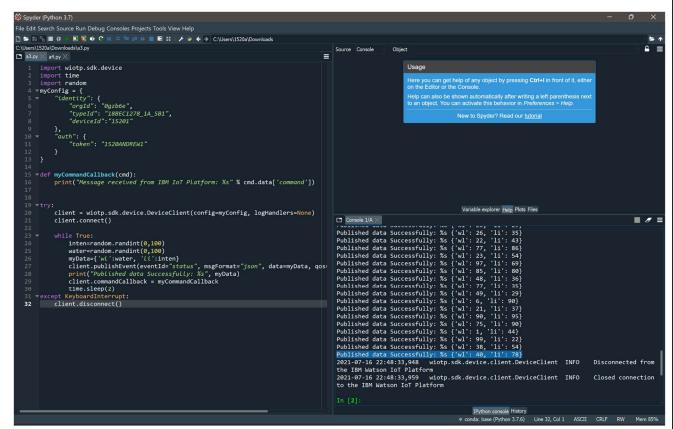


Fig-6: Python Code

```
Console 1/A
Published data Successfully: %s {'wl': 26, 'li': 35}
Published data Successfully: %s { 'wl': 22, 'li': 43} Published data Successfully: %s { 'wl': 77, 'li': 86} Published data Successfully: %s { 'wl': 23, 'li': 54}
Published data Successfully: %s {'wl': 97, 'li': 69} Published data Successfully: %s {'wl': 85, 'li': 80}
Published data Successfully: %s {'wl': 85, 'li': 80}
Published data Successfully: %s {'wl': 48, 'li': 36}
Published data Successfully: %s {'wl': 77, 'li': 35}
Published data Successfully: %s {'wl': 49, 'li': 29}
Published data Successfully: %s {'wl': 6, 'li': 90}
Published data Successfully: %s {'wl': 21, 'li': 37}
Published data Successfully: %s {'wl': 90, 'li': 95}
Published data Successfully: %s {'wl': 75, 'li': 90}
Published data Successfully: %s {'wl': 75, 'li': 90}
Published data Successfully: %s {'wl': 1, 'li': 44}
Published data Successfully: %s {'wl': 99, 'li': 22}
Published data Successfully: %s {'wl': 38, 'li': 54}
Published data Successfully: %s {'wl': 40, 'li': 78}
                                                                                                                                                       Disconnected from
2021-07-16 22:48:33,948 wiotp.sdk.device.client.DeviceClient INFO
 the IBM Watson IoT Platform
 2021-07-16 22:48:33,959 wiotp.sdk.device.client.DeviceClient INFO
                                                                                                                                                       Closed connection
to the IBM Watson IoT Platform
 In [2]:
                                                                                IPython console History
                                                                        ⊗ conda: base (Python 3.7.6) Line 32, Col 1 ASCII CRLF RW
```

Fig-7: Python Console

Fig-8: Node-RED URL



Fig-9: MIT App Inventor APK App