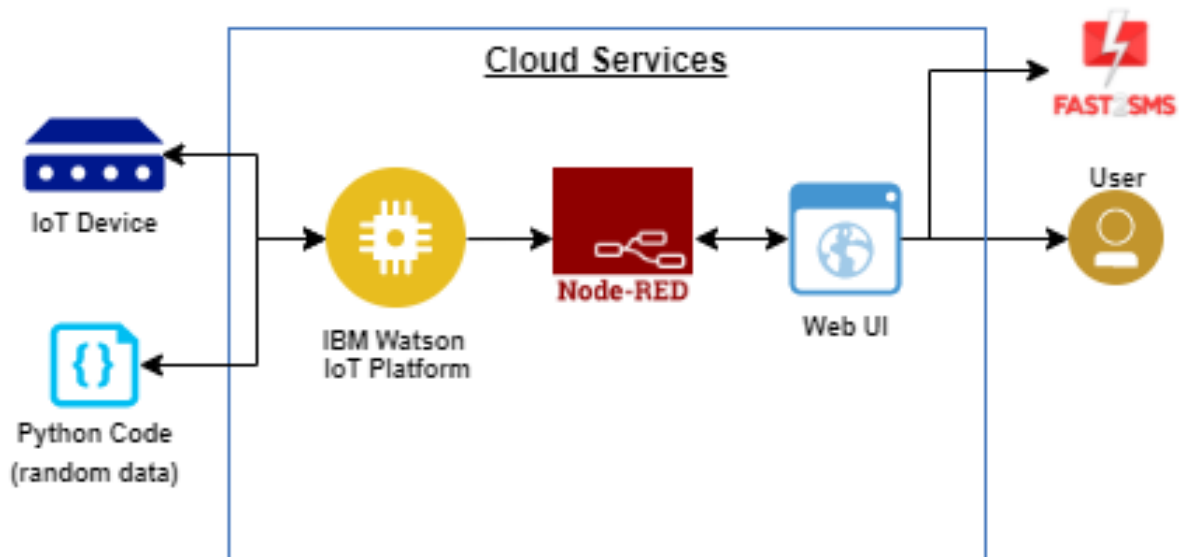


SPRINT- IV

PROJECT DEVELOPMENT PHASE

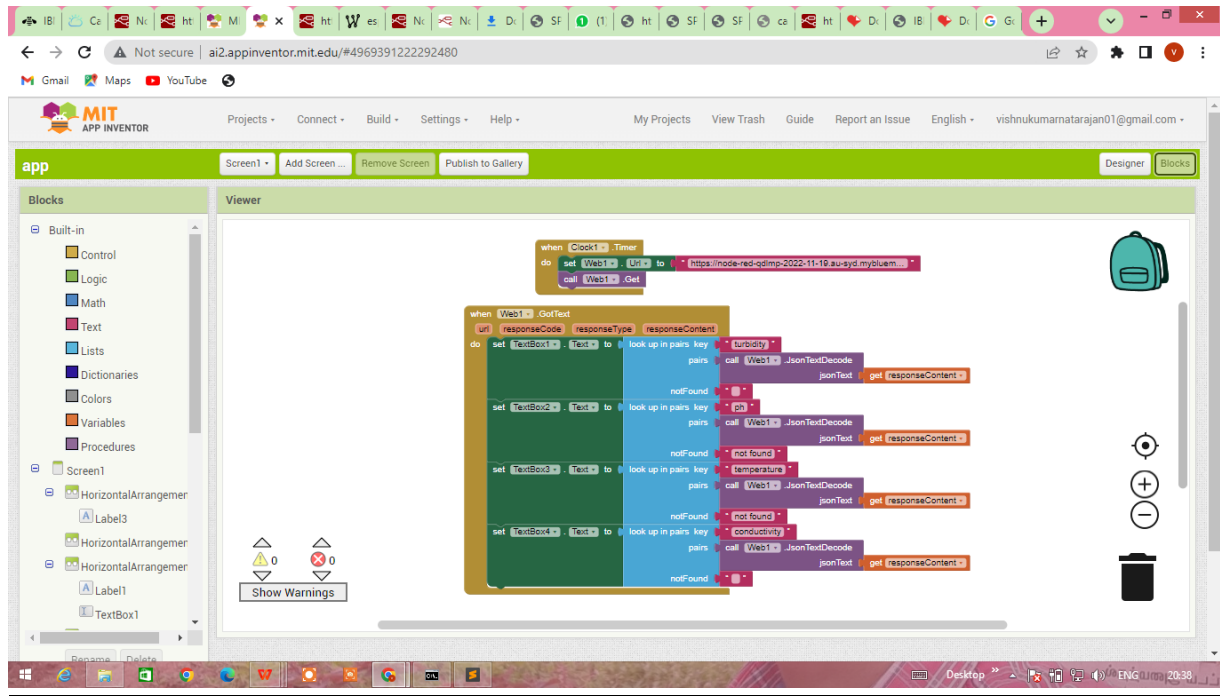
DATE	16 OCTOBER 2022
TEAM LEADER	VISHNU KUMAR N
TEAM MEMBERS	SURESH S MATHAN KUMAR T SASI KUMAR K
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITERING AND CONTROL SYSTEM

WHOLE PROJECT OVERVIEW

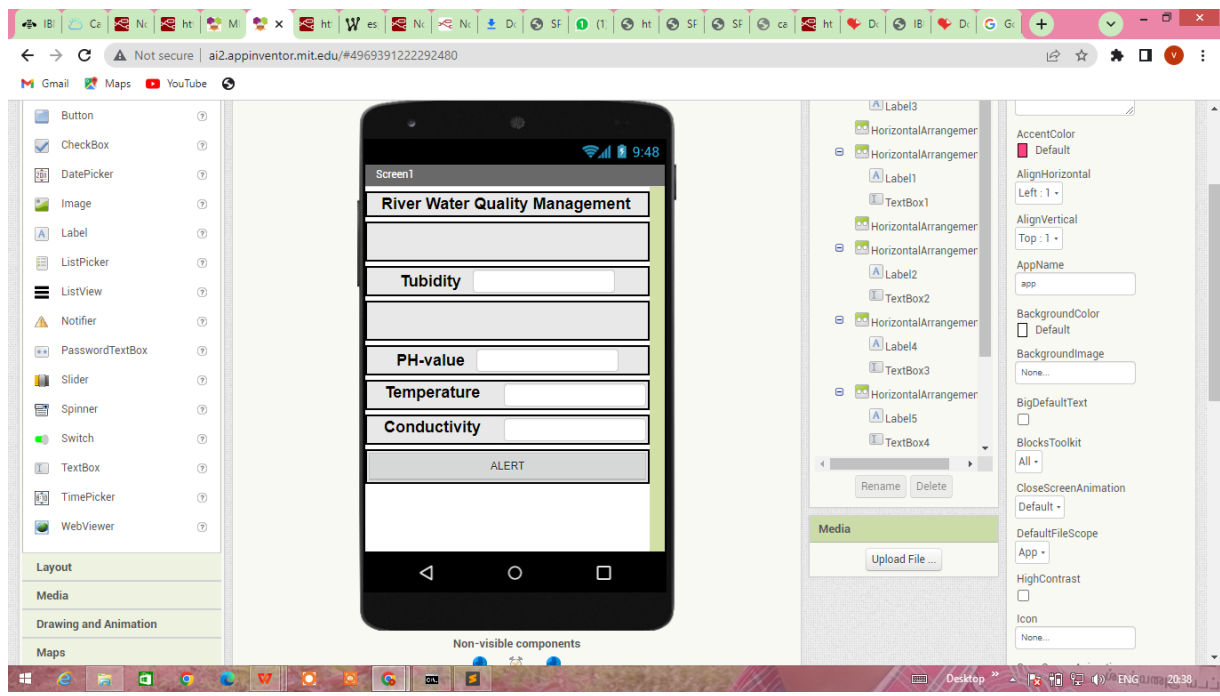


DESIGN OF MOBILE USER INTERFACE

BACK-END



FRONT-END



DEVELOPED MOBILE APP

8:41

VoLTE2 100%

Screen1

River Water Quality Management

Turbidity 16

PH-value 8.1

Temperature 43

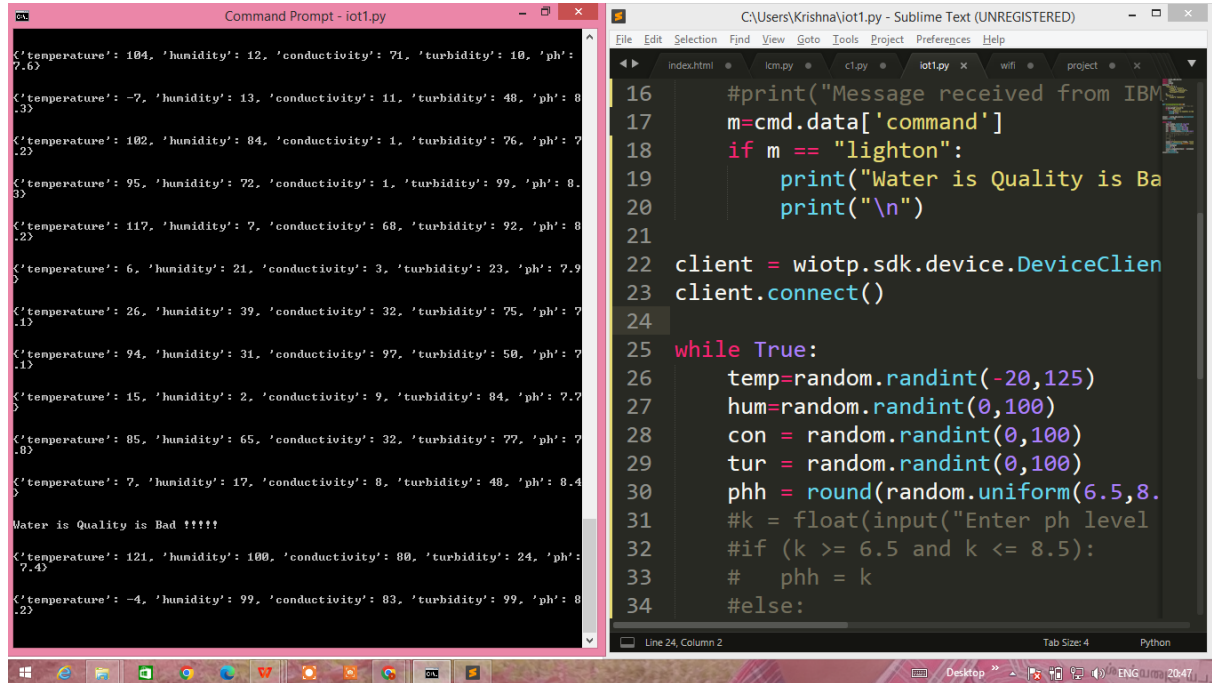
Conductivity 82

ALERT



OUTPUT

USER CAN ALERT THE SYSTEM WHEN QUALITY OF WATER IS REDUCED



```
Command Prompt - iot1.py
{'temperature': 104, 'humidity': 12, 'conductivity': 71, 'turbidity': 10, 'ph': 7.6}
{'temperature': -7, 'humidity': 13, 'conductivity': 11, 'turbidity': 48, 'ph': 8.3}
{'temperature': 102, 'humidity': 84, 'conductivity': 1, 'turbidity': 76, 'ph': 7.3}
{'temperature': 95, 'humidity': 72, 'conductivity': 1, 'turbidity': 99, 'ph': 8.3}
{'temperature': 117, 'humidity': 7, 'conductivity': 68, 'turbidity': 92, 'ph': 8.2}
{'temperature': 6, 'humidity': 21, 'conductivity': 3, 'turbidity': 23, 'ph': 7.9}
{'temperature': 26, 'humidity': 39, 'conductivity': 32, 'turbidity': 75, 'ph': 7.1}
{'temperature': 94, 'humidity': 31, 'conductivity': 97, 'turbidity': 50, 'ph': 7.1}
{'temperature': 15, 'humidity': 2, 'conductivity': 9, 'turbidity': 84, 'ph': 7.7}
{'temperature': 85, 'humidity': 65, 'conductivity': 32, 'turbidity': 77, 'ph': 7.0}
{'temperature': 7, 'humidity': 17, 'conductivity': 8, 'turbidity': 48, 'ph': 8.4}
Water is Quality is Bad !!!!!
{'temperature': 121, 'humidity': 100, 'conductivity': 80, 'turbidity': 24, 'ph': 7.4}
{'temperature': -4, 'humidity': 99, 'conductivity': 83, 'turbidity': 99, 'ph': 8.2}

C:\Users\Krishna\iot1.py - Sublime Text (UNREGISTERED)
16 #print("Message received from IBM
17 m=cmd.data['command']
18 if m == "lighton":
19     print("Water is Quality is Ba
20     print("\n")
21
22 client = wiotp.sdk.device.DeviceClient
23 client.connect()
24
25 while True:
26     temp=random.randint(-20,125)
27     hum=random.randint(0,100)
28     con = random.randint(0,100)
29     tur = random.randint(0,100)
30     phh = round(random.uniform(6.5,8.
31     #k = float(input("Enter ph level
32     #if (k >= 6.5 and k <= 8.5):
33     #     phh = k
34     #else:
```