

USE DASHBOARD NODES FOR CREATING UI(WEB APP)

Team ID	PNT2022TMID33019
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

In this document, we have attached the screenshots of Dashboard nodes for creating UI

Command Prompt

Microsoft Windows [Version 10.0.22000.1219]
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C:\Users\infin>pip install wiotp-sdk

Requirement already satisfied: wiotp-sdk in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (0.11.0)
Requirement already satisfied: iso8601>=0.1.12 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (1.1.0)
Requirement already satisfied: pytz>=2018.9 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (2022.6)
Requirement already satisfied: pyyaml>=3.13 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (6.0)
Requirement already satisfied: paho-mqtt>=1.5.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (1.6.1)
Requirement already satisfied: requests>=2.21.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (2.28.1)
Requirement already satisfied: requests_toolbelt>=0.8.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (0.10.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (1.26.12)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2.1.1)
)
You are using pip version 10.0.1, however version 22.3.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Users\infin>pip install ibmiotf

Requirement already satisfied: ibmiotf in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (0.4.0)
Requirement already satisfied: iso8601>=0.1.12 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.1.0)
Requirement already satisfied: pytz>=2017.3 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2022.6)
Requirement already satisfied: paho-mqtt>=1.3.1 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (1.6.1)
Requirement already satisfied: requests>=2.18.4 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (2.28.1)
Requirement already satisfied: requests_toolbelt>=0.8.0 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from ibmiotf) (0.10.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (2022.9.24)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (1.26.12)
Requirement already satisfied: idna<4,>=2.5 in c:\users\infin\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.18.4->ibmiotf) (3.4)
You are using pip version 10.0.1, however version 22.3.1 is available.
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C:\Users\infin>

Node-RED

filter nodes

tone analyzer v3

dashboard

button

dropdown

switch

slider

numeric

text input

date picker

colour picker

form

text

Flow 2

Flow 3

IBM IoT

connected

temp

humidity

randomNumber

msg.payload

temperature

humidity

moisture

debug

current flow

all

17/11/2022, 10:19:28 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:19:29 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : Object
{ temperature: -5, humidity: 46 }

17/11/2022, 10:19:30 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

17/11/2022, 10:19:30 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : number
46

17/11/2022, 10:19:30 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

Node-RED

Deploy

filter nodes

Flow 2

Flow 3

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debug

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⚙️

⌵

current flow

all

17/11/2022, 10:19:28 am node: b9291bf6569ebfd8
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17/11/2022, 10:19:30 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : number
46

17/11/2022, 10:19:30 am node: b9291bf6569ebfd8
iot-2/type/rasperry/id/ras123/evt/status/fmt/json :
msg.payload : undefined
undefined

Python 3.7.0 Shell

File Edit Shell Debug Options Window Help

```
Published data Successfully: %s {'temperature': 85, 'humidity': 74}
Published data Successfully: %s {'temperature': 49, 'humidity': 16}
Published data Successfully: %s {'temperature': 2, 'humidity': 30}
Published data Successfully: %s {'temperature': 85, 'humidity': 74}
Published data Successfully: %s {'temperature': 119, 'humidity': 42}
Published data Successfully: %s {'temperature': 71, 'humidity': 32}
Published data Successfully: %s {'temperature': 115, 'humidity': 67}
Published data Successfully: %s {'temperature': 84, 'humidity': 23}
Published data Successfully: %s {'temperature': 46, 'humidity': 60}
Published data Successfully: %s {'temperature': 106, 'humidity': 56}
Published data Successfully: %s {'temperature': 57, 'humidity': 11}
Published data Successfully: %s {'temperature': 50, 'humidity': 95}
Published data Successfully: %s {'temperature': 32, 'humidity': 87}
Published data Successfully: %s {'temperature': 9, 'humidity': 4}
Published data Successfully: %s {'temperature': 103, 'humidity': 2}
Published data Successfully: %s {'temperature': 43, 'humidity': 99}
Published data Successfully: %s {'temperature': 16, 'humidity': 44}
Published data Successfully: %s {'temperature': 89, 'humidity': 89}
Published data Successfully: %s {'temperature': 95, 'humidity': 71}
Published data Successfully: %s {'temperature': 60, 'humidity': 2}
Published data Successfully: %s {'temperature': 50, 'humidity': 46}
Published data Successfully: %s {'temperature': 37, 'humidity': 5}
Published data Successfully: %s {'temperature': 53, 'humidity': 9}
Published data Successfully: %s {'temperature': 124, 'humidity': 90}
Published data Successfully: %s {'temperature': 32, 'humidity': 5}
Published data Successfully: %s {'temperature': 110, 'humidity': 0}
Published data Successfully: %s {'temperature': -8, 'humidity': 9}
Published data Successfully: %s {'temperature': 84, 'humidity': 60}
Published data Successfully: %s {'temperature': 20, 'humidity': 86}
Published data Successfully: %s {'temperature': 20, 'humidity': 79}
Published data Successfully: %s {'temperature': 121, 'humidity': 99}
Published data Successfully: %s {'temperature': 3, 'humidity': 76}
Published data Successfully: %s {'temperature': 35, 'humidity': 35}
Published data Successfully: %s {'temperature': 121, 'humidity': 37}
Published data Successfully: %s {'temperature': 5, 'humidity': 44}
Published data Successfully: %s {'temperature': 14, 'humidity': 83}
Published data Successfully: %s {'temperature': 114, 'humidity': 99}
Published data Successfully: %s {'temperature': 21, 'humidity': 40}
Published data Successfully: %s {'temperature': 3, 'humidity': 95}
Published data Successfully: %s {'temperature': -16, 'humidity': 1}
```

