

Name : G.Siva Naga Nihith

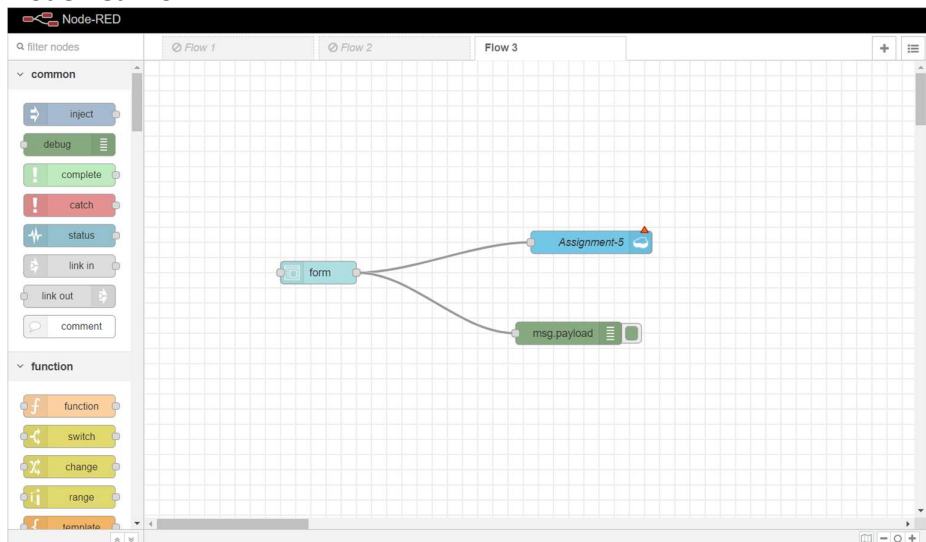
Reg.NO: 19BEC1097

Assignment-5:

Create a web dashboard to take user input for scheduling the pump controller (date & time).
store the data in the Cloudant DB.

Software: IBM

Node Red Flow:



Form Node:

The image shows the 'Edit form node' configuration interface in Node-RED. The 'Properties' section is active, showing the following settings:

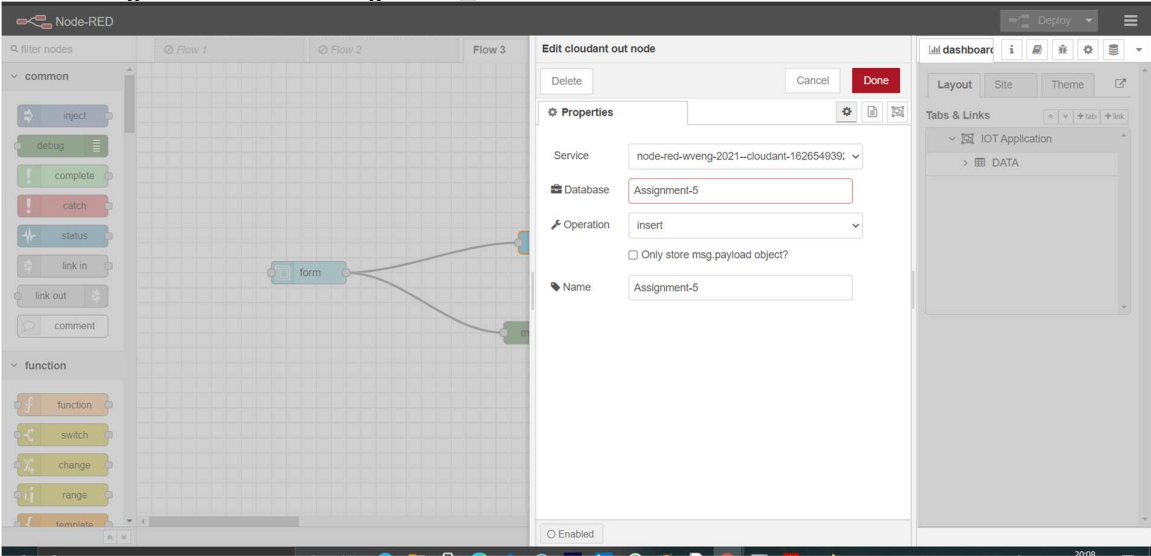
- Group: [IOT Application] DATA
- Size: auto
- Label: optional label

The 'Form elements' section contains a table with the following data:

Label	Name	Type	Required	UIRows	Remove
date	date	Date	<input checked="" type="checkbox"/>	1	<input type="button" value="Remove"/>
time	time	Time	<input checked="" type="checkbox"/>	1	<input type="button" value="Remove"/>

At the bottom, there is a 'Buttons' section with 'submit' and 'cancel' buttons. The 'submit' button is currently disabled.

Connecting form Node to Assignment 5 Data base:



Input:

Assignment-5

Default

date*

18-07-2021

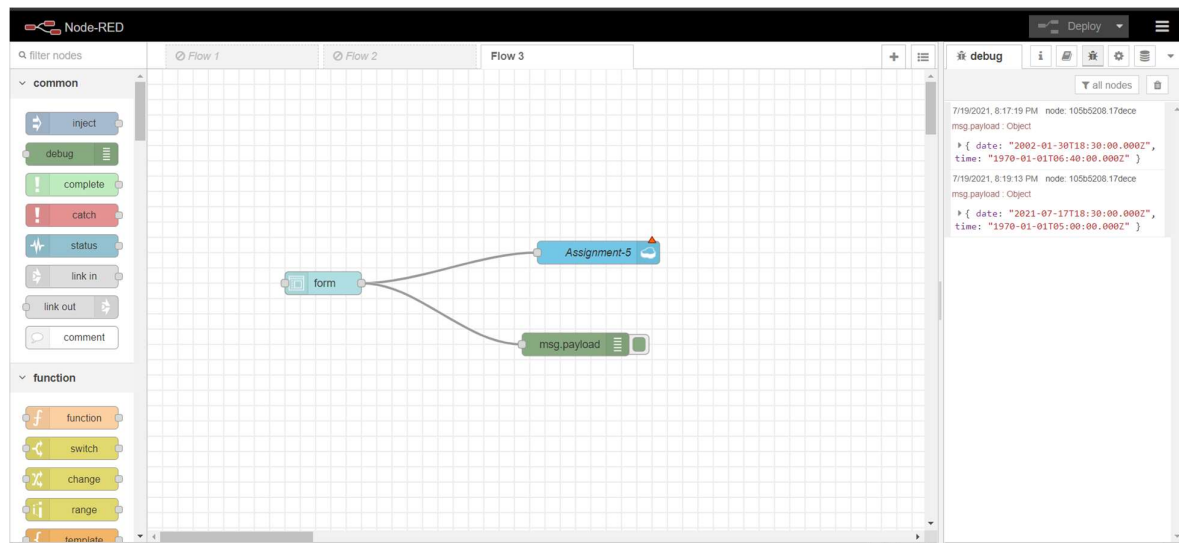
time*

10:30

SUBMIT

CANCEL

Output:



Code:

```
n5.py - C:\Users\n5h1t\OneDrive\Desktop\Python Files\n5.py (3.9.6)
File Edit Format Run Options Window Help
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-1ksx6mbgg8gj0qoebqcs3whzvju7rn5zi44vnglrtc8i', 'bb8a867blac1ccf6c538852e1205a05d')
service = CloudantV1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-1ksx6mbgg8gj0qoebqcs3whzvju7rn5zi44vnglrtc8i:bb8a867blac1ccf6c538852e1205a05d@dd9b9142-1f18-4214-864f-ed3a7691cb3b-bluemix.cloudantnosqldb.appdomain')

products_doc = {
    "DATE": "18/07/21",
    "TIME": "10:30 PM"
}

response = service.post_document(db='pumpiot', document=products_doc).get_result()
print(response)
```

Here, BasicAuthenticators are username & password of Cloudant DBWe

need to store the time and date in the cloudant DB

CREATION OF DB:

Database name

Create Database

{ } JSON

Partitioned

No

No

Create Database

Database name

pumpiot

Partitioning

☐ Partitioned ☒ Non-partitioned

> What is a Partitioned Database?

Cancel

Create

After the code execution we can view the data in the cloudant DB

Databases

Database name

Create Database

{ } JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
noderedwveng20210717	26.4 KB	4	No	<div></div>
pumpiot	74 bytes	2	No	<div></div>

Log Out

Showing 1-2 of 2 databases. Databases per page 20 < 1 >

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pumpiot > 89342742004575c21a168b71ec670a63

Save Changes

Cancel

Upload Attachment

Clone Document

Delete

1

2 "_id": "89342742004575c21a168b71ec670a63",

3 "_rev": "1-82d0b560fd05f0157aed943d6639ad83",

4 "DATE": "18/07/21",

5 "TIME": "10:30 PM"

6 }

Log Out