

VIT IOT EXTERNSHIP

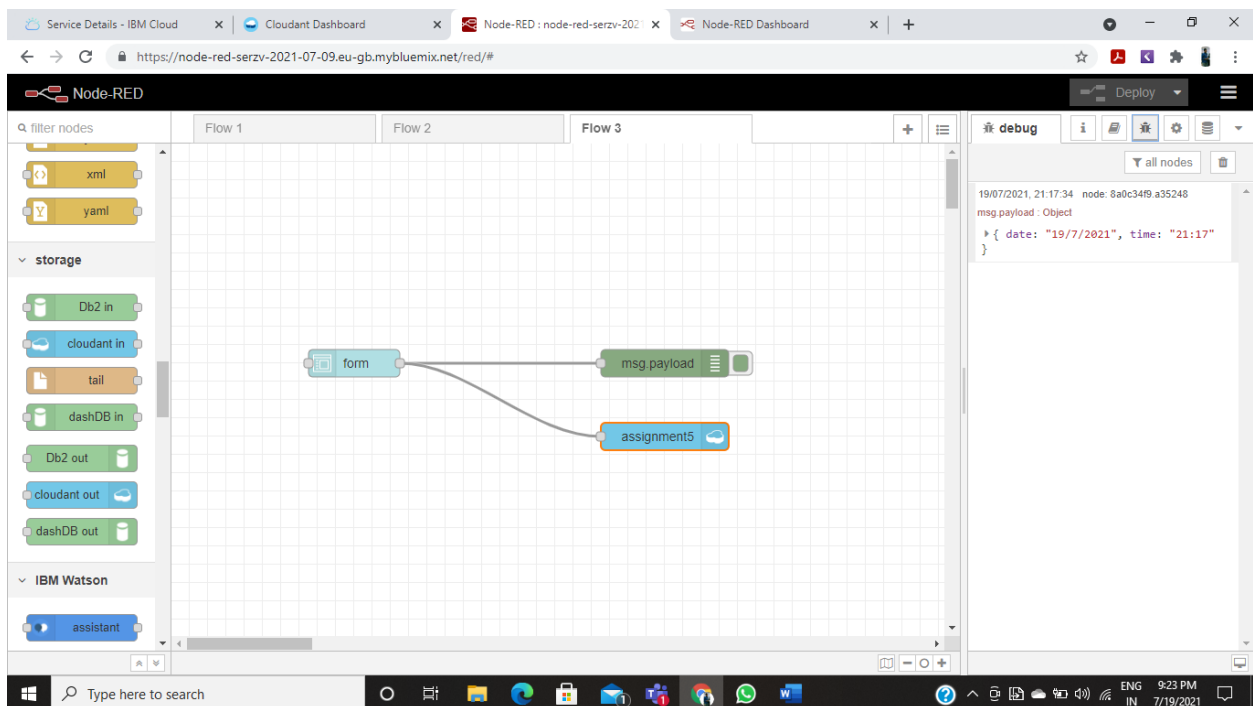
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ASSIGNMENT 5:

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

you can use Form Nodes in dashboard nodes to take user input.

Node red flow:



Form node:

Node-RED Edit form node interface. The form is named "[pump control] assignment5". The form elements table shows two elements:

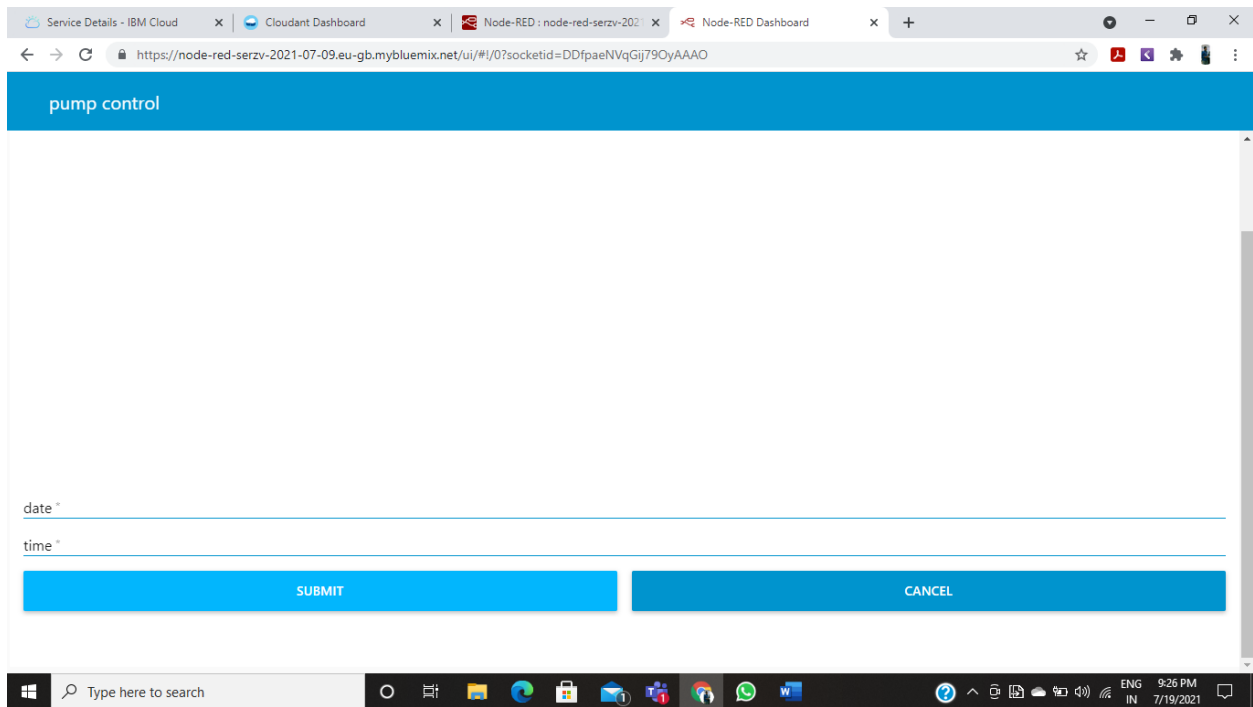
Label	Name	Type	Required	UIRows	Remove
date	date	Text	<input checked="" type="checkbox"/>		
time	time	Text	<input checked="" type="checkbox"/>		

The debug console shows a message payload: `{ date: "19/7/2021", time: "21:17" }`.

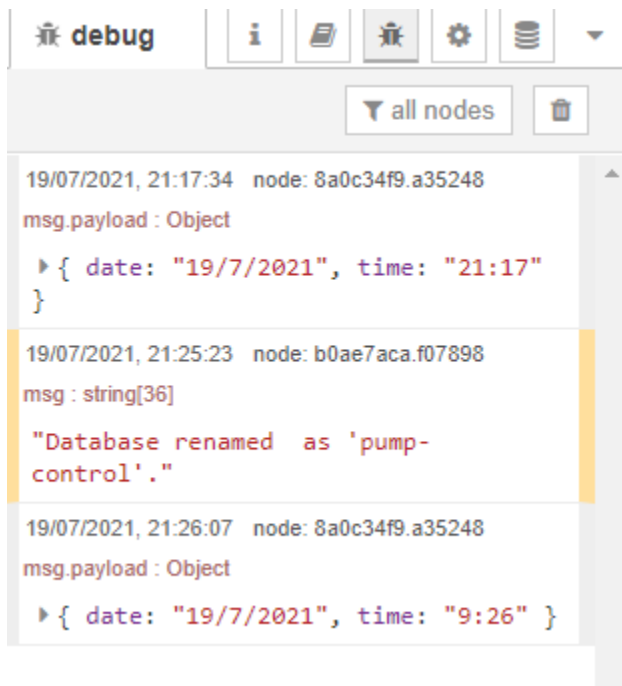
Connected node to pump control to send data:

Edit cloudant out node interface. The configuration is as follows:

- Service: node-red-serzv-2021--cloudant-1625821036
- Database: pump control
- Operation: insert
- ☐ Only store msg.payload object?
- Name: Name



Output received:



Database:

The screenshot shows the Cloudant Databases dashboard in a web browser. The browser tabs include 'Service Details - IBM Cloud', 'Cloudant Dashboard', 'Node-RED : node-red-serzy-2021', and 'Node-RED Dashboard'. The address bar shows the URL: <https://f22216e3-c43d-4c67-9e3f-0d903879f8cd-bluemix.cloudant.com/dashboard.html>. The dashboard header has a 'Databases' title, a 'Database name' dropdown, a 'Create Database' button, and icons for JSON, a document, and a bell. The main content area is titled 'Your Databases' and contains a table with the following data:

Name	Size	# of Docs	Partitioned	Actions
assignment5	81 bytes	1	No	
noderedserzy20210709	29.4 KB	4	No	

Output data from web ui to cloudant

The screenshot shows the Cloudant document editor for the 'assignment5' database. The browser tabs are the same as in the previous screenshot. The address bar shows the URL: <https://f22216e3-c43d-4c67-9e3f-0d903879f8cd-bluemix.cloudant.com/dashboard.html#database/assignment5/fa2a843805767b093b6143b973f069cd>. The document editor header shows the database name 'assignment5' and the document ID 'fa2a843805767b093b6143b973f069cd'. Below the header are buttons for 'Save Changes', 'Cancel', 'Upload Attachment', 'Clone Document', and 'Delete'. The document content is a JSON object displayed in a code editor:

```
1 {
2   "_id": "fa2a843805767b093b6143b973f069cd",
3   "_rev": "1-9787d7b56be1cb2b24f47ec368eeac75",
4   "payload": {
5     "date": "19/7/2021",
6     "time": "21:17"
7   },
8   "socketid": "DDfpaenVqGij790yAAAO"
9 }
```