

IoT – Industrial Internship

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:

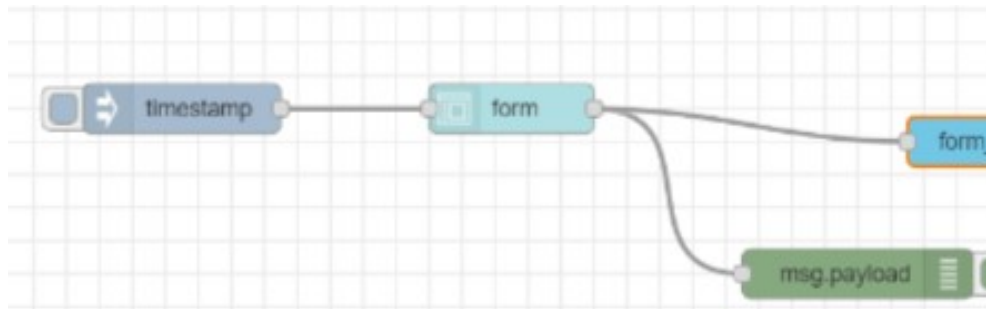


Fig 1: Node Red Flow

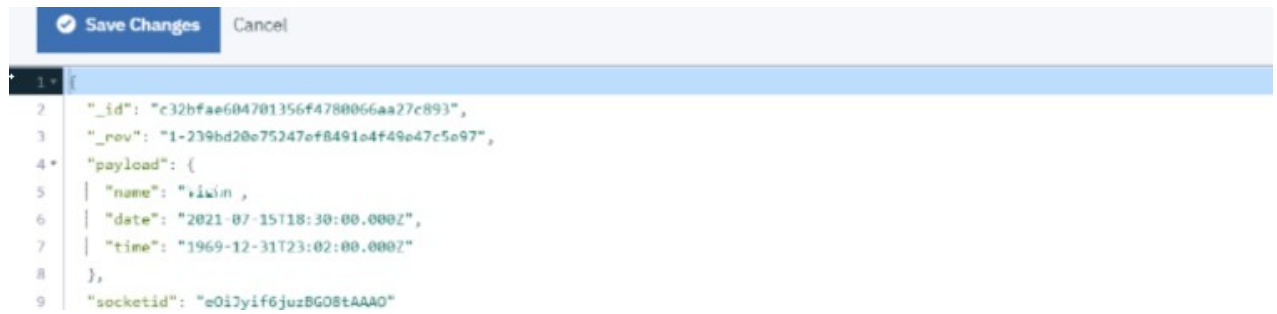
IBM Cloudant DB Output:

The screenshot shows the IBM Cloudant DB interface. On the left, there's a sidebar with 'form_data' selected. The main area displays a table of documents. The table has columns for 'id', 'key', and 'value'. There are two documents listed.

id	key	value
59daaf6da552b84783e74346608277fb	59daaf6da552b84783e74346608277fb	{ "rev": "1-7"
c32bfae604701356f4780066aa27c893	c32bfae604701356f4780066aa27c893	{ "rev": "1-2"

Fig 2: IBM Cloudant DB Output

IBM Cloudant in JSON format output:

A screenshot of a code editor showing a JSON document. At the top, there is a light blue header bar with a dark blue button labeled 'Save Changes' and a grey button labeled 'Cancel'. Below the header, the JSON document is displayed on a light blue background. The document is a single object with the following fields: '_id' (a long hexadecimal string), '_rev' (a long hexadecimal string), 'payload' (an object with 'name', 'date', and 'time' fields), and 'socketid' (a hexadecimal string). The code is syntax-highlighted, with strings in green, keys in blue, and punctuation in black. Line numbers 1 through 9 are visible on the left side of the editor.

```
1 {  
2   "_id": "c32bfae604701356f4780066aa27c893",  
3   "_rev": "1-239bd20e75247ef8491e4f49e47c5e97",  
4   "payload": {  
5     "name": "xiao",  
6     "date": "2021-07-15T18:30:00.000Z",  
7     "time": "1969-12-31T23:02:00.000Z"  
8   },  
9   "socketid": "e0i7yif6juzBG0StAAA0"
```

Fig 3: IBM Cloudant in JSON format output