

Assignment – 5

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Application Id – SPS_APL_20210012580

Aim - 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.

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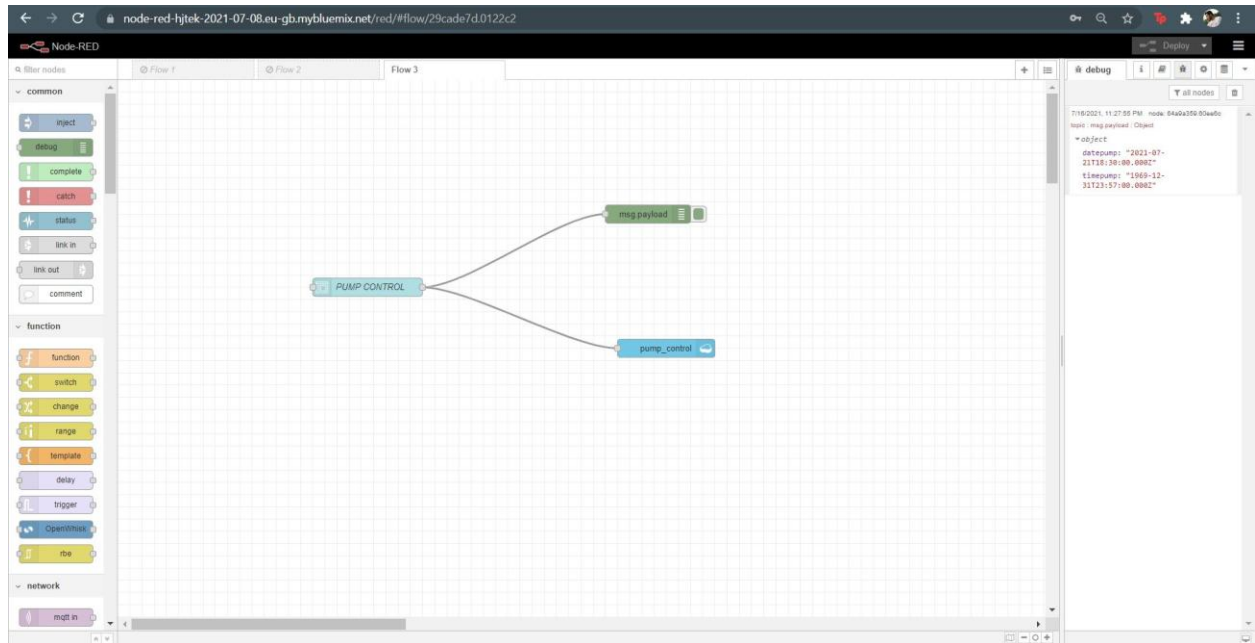
Requirement –

1. IBM cloud service
2. IBM cloudant DB
3. NODE - RED

Working - Here we use the NODE – RED service to create a web dashboard in which we use the Form Node to take date and time as the input from the user and send it to the IBM cloudant database to store the data using the cloudant out node.

RESULTS:

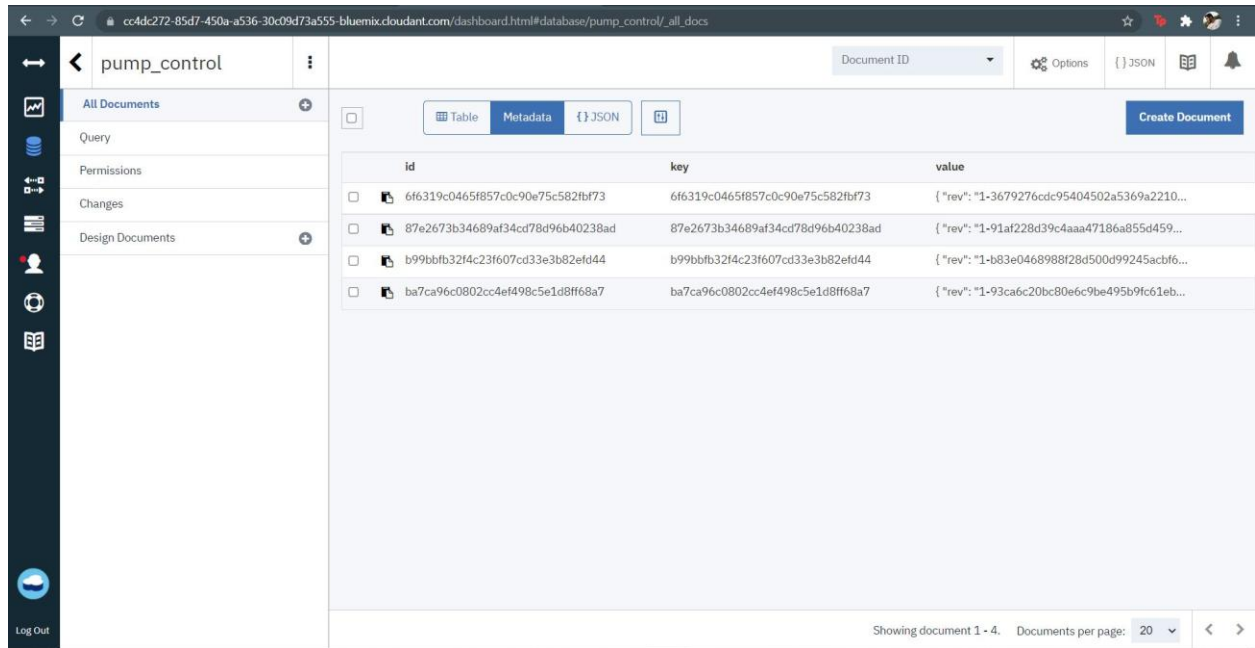
1. NODE – RED FLOW



2. NODE – RED UI

The screenshot shows the Node-RED UI interface in a browser. The page title is 'Pump Controller'. Below the title bar, there is a 'control' section. This section contains a form titled 'Select Date and Time to schedule pump'. The form has two input fields: 'Select Date' with the value '07/20/2021' and 'Select Time' with the value '03:31 AM'. Below these fields are two buttons: 'SUBMIT' and 'CANCEL'.

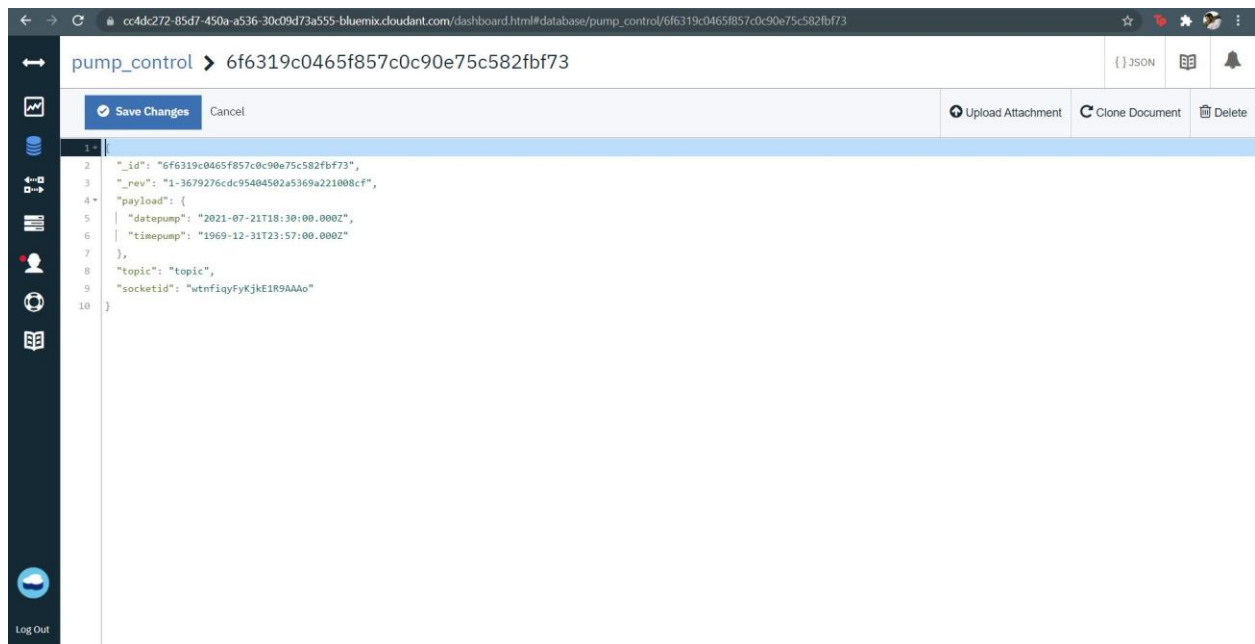
3. RECEIVING DATA AT CLOUDANT DB



The screenshot shows the Cloudant dashboard for a database named 'pump_control'. The interface includes a sidebar with navigation options like 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area displays a table of documents with columns for 'id', 'key', and 'value'. The table contains four documents, each with a unique ID and a JSON value. A 'Create Document' button is visible in the top right corner.

id	key	value
6f6319c0465f857c0c90e75c582fbf73	6f6319c0465f857c0c90e75c582fbf73	{ "rev": "1-3679276cdc95404502a5369a2210..." }
87e2673b34689af34cd78d96b40238ad	87e2673b34689af34cd78d96b40238ad	{ "rev": "1-91af228d39c4aaa47186a855d459..." }
b99bbfb32f4c23f607cd33e3b82efd44	b99bbfb32f4c23f607cd33e3b82efd44	{ "rev": "1-b83e046898f28d500d99245acbf6..." }
ba7ca96c0802cc4ef498c5e1d8ff68a7	ba7ca96c0802cc4ef498c5e1d8ff68a7	{ "rev": "1-93ca6c20bc80e6c9be495b9fc61eb..." }

4. DATA STORED IN THE DATABASE CREATED AT CLOUDANT



The screenshot shows the Cloudant dashboard for a specific document in the 'pump_control' database. The document ID is '6f6319c0465f857c0c90e75c582fbf73'. The interface includes a sidebar with navigation options like 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area displays the document's JSON value in a text editor. The JSON value is a document with fields for 'id', 'rev', 'payload', 'datepump', 'timepump', 'topic', and 'socketid'.

```
1 {
2   "id": "6f6319c0465f857c0c90e75c582fbf73",
3   "rev": "1-3679276cdc95404502a5369a221008cf",
4   "payload": {
5     "datepump": "2021-07-21T18:30:00.000Z",
6     "timepump": "1969-12-31T23:57:00.000Z"
7   },
8   "topic": "topic",
9   "socketid": "wtntfiqfyKjke1R9AAao"
10 }
```