

Assignment 5

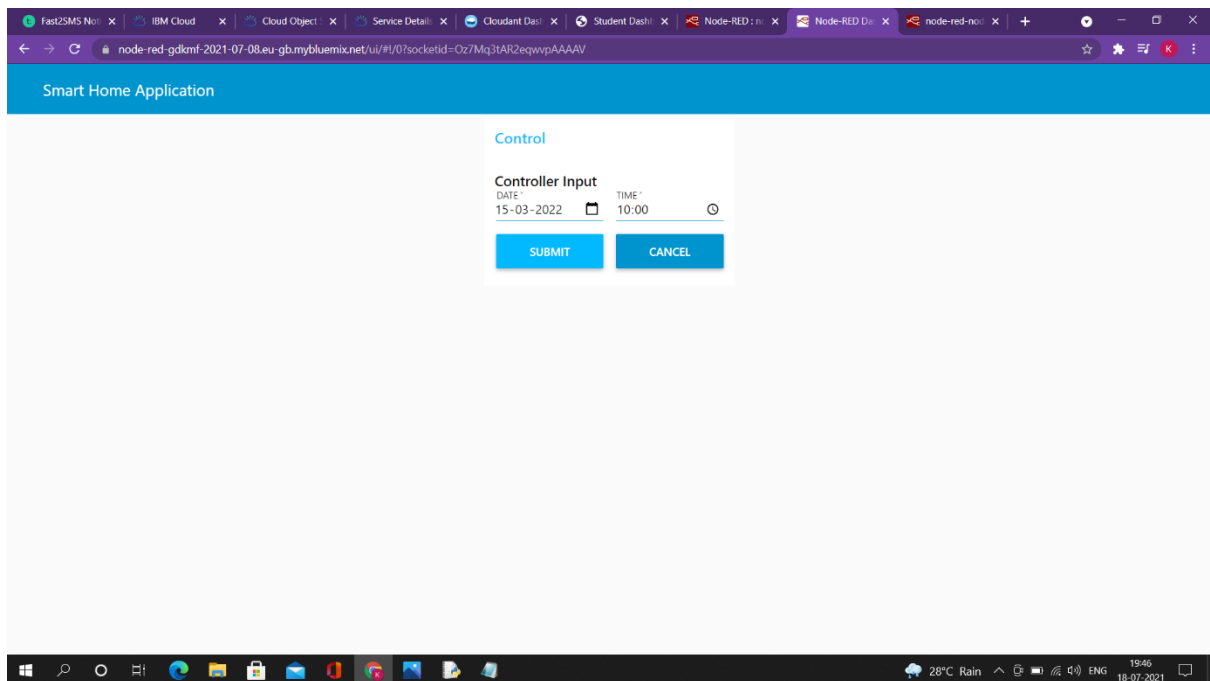
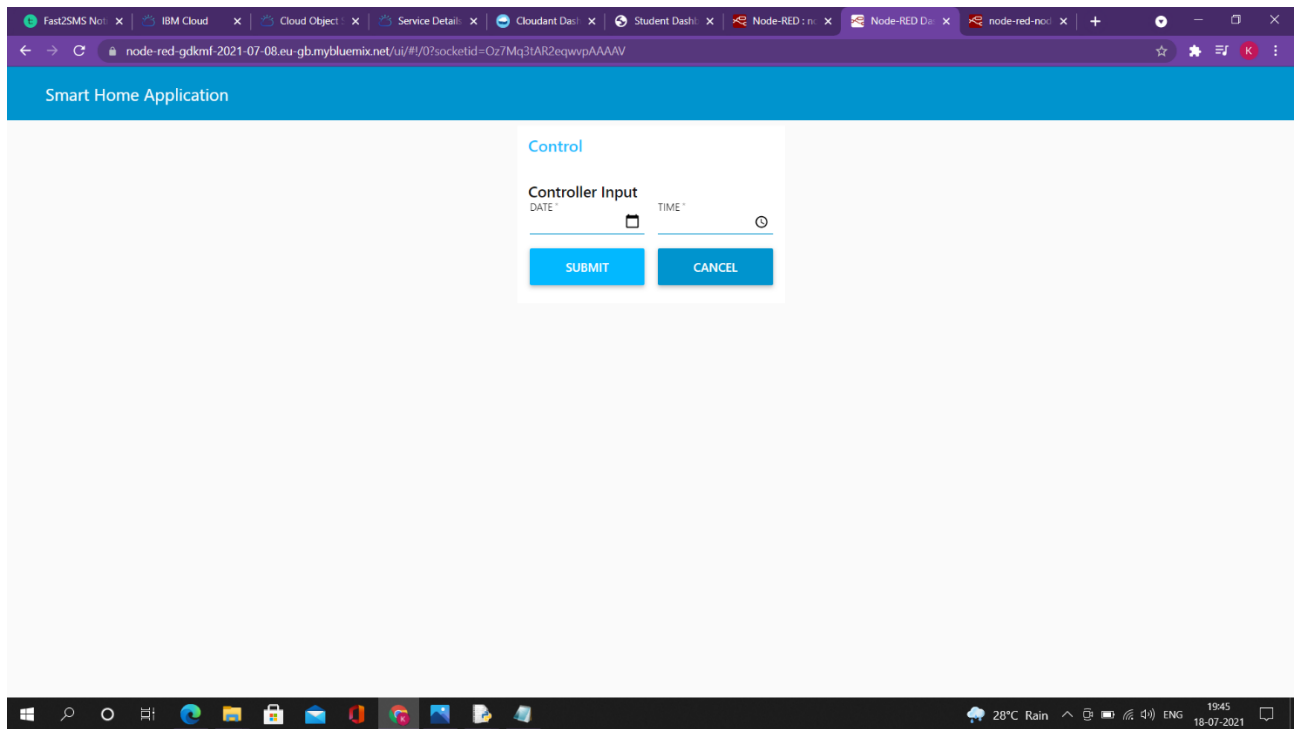
(Keerti Srivastava)

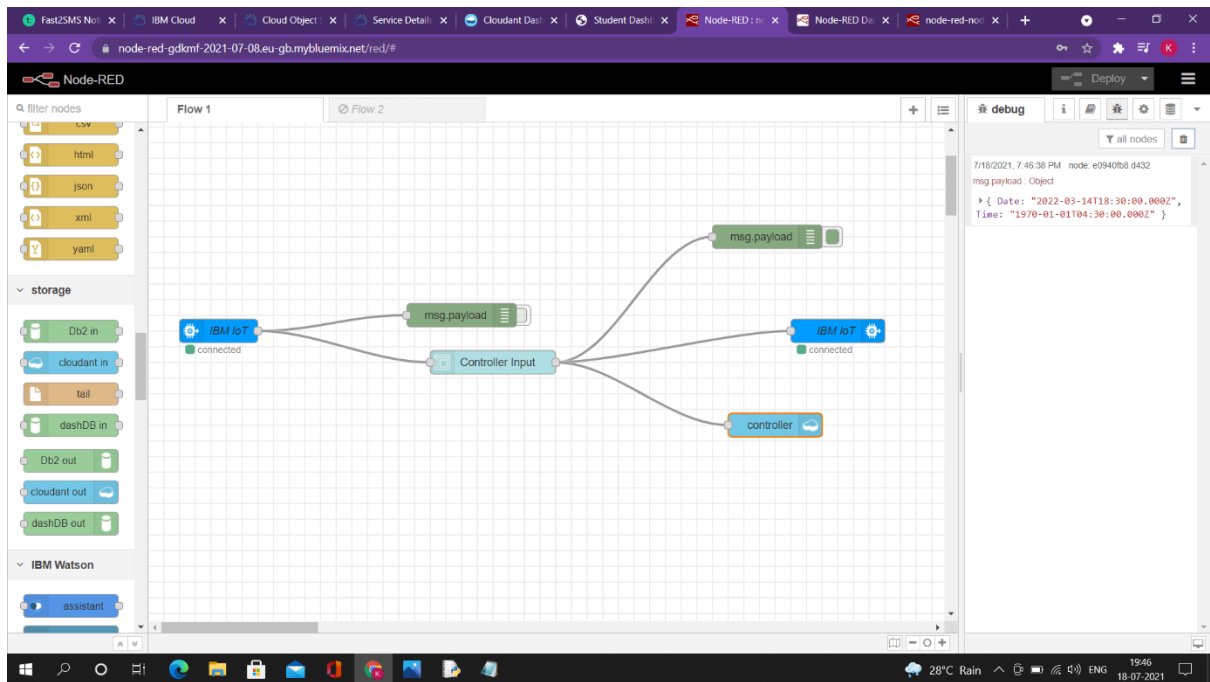
Create a web dashboard to take user input for scheduling the pump controller (date & time).
store the data in the Cloudant DB.
you can use Form Nodes in dashboard nodes to take user input.

Screenshots:

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a 'Form Node' being edited. The 'Properties' section on the left indicates the node is part of the '[Smart Home Application] Control' group, has a size of 6 x 6, and is labeled 'Controller Input'. The 'Form elements' section contains a table with two rows: 'DATE' and 'TIME'. Each row has columns for 'Label', 'Name', 'Type', 'Required', 'UiRows', and 'Remove'. The 'DATE' row has a 'Date' type and is required. The 'TIME' row has a 'Time' type and is required. Below the table, there are two buttons: 'submit' and 'cancel'. The 'debug' console on the right shows a series of messages with timestamps and payloads, indicating the flow of data through the system. The browser's address bar shows the URL 'node-red-gdkmf-2021-07-08.eu-gb.mybluemix.net/red/#'.

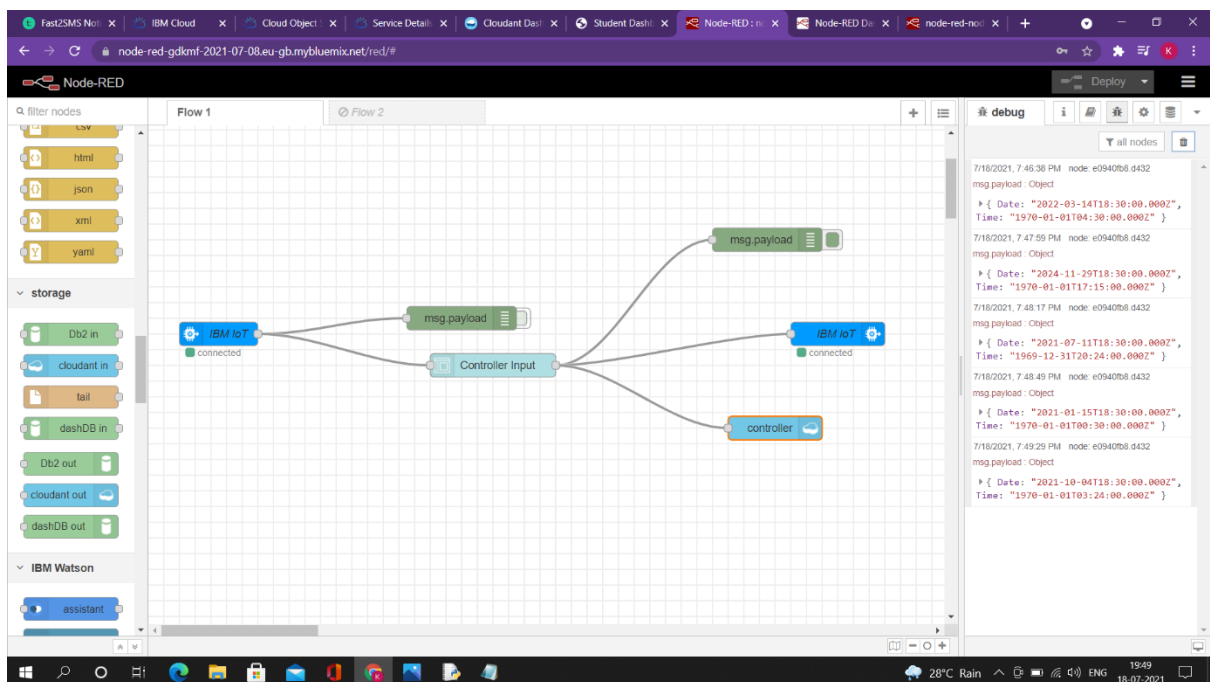
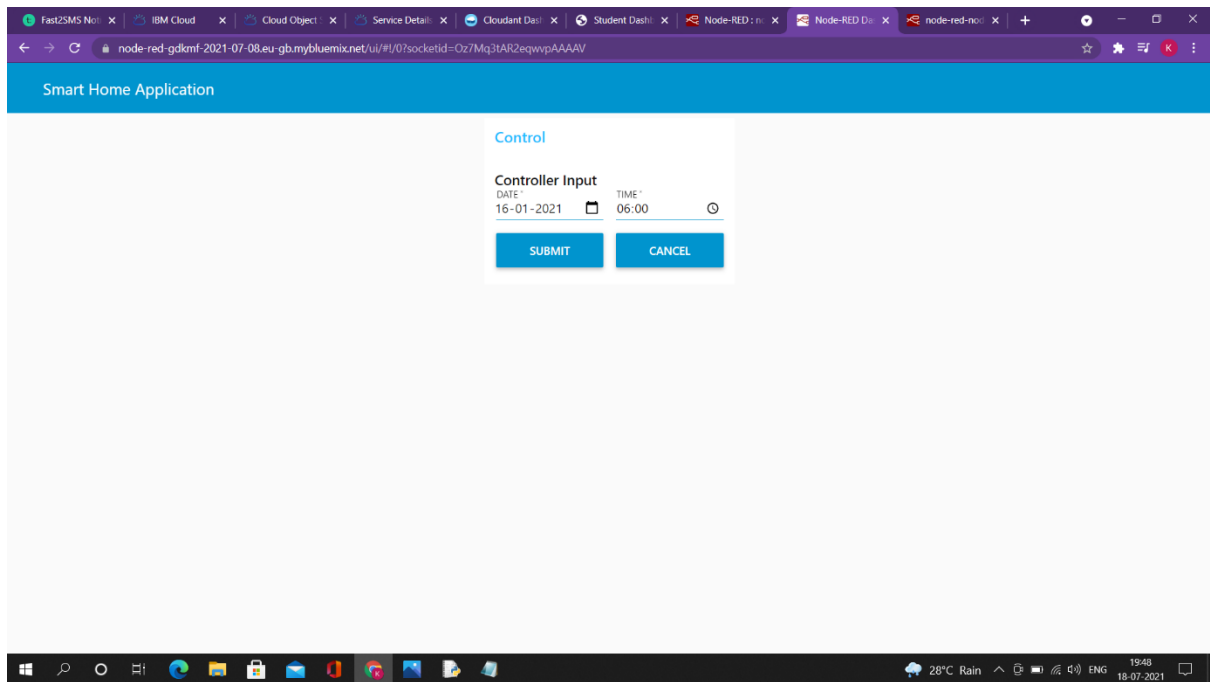
Label	Name	Type	Required	UiRows	Remove
DATE	Date	Date	<input checked="" type="checkbox"/>	1	
TIME	Time	Time	<input checked="" type="checkbox"/>	1	





The image shows the configuration page for the **controller** node in Node-RED. The URL in the browser is `7213eaae-6366-409c-80a9-50aa6d7790b8-blumix.cloudant.com/dashboard.html#database/controller/badb90c3425cb0a235b82e0557077ae7`. The configuration includes a **Save Changes** button and a **Cancel** button. The JSON payload is as follows:

```
1 {
2   "_id": "badb90c3425cb0a235b82e0557077ae7",
3   "_rev": "1-ff14002885afbd6aa37cb7067734e8dc",
4   "Date": "2022-03-14T18:30:00.000Z",
5   "Time": "1970-01-01T04:30:00.000Z"
6 }
```



FastSMS No... IBM Cloud Cloud Object Service Detail Cloudant Dash Student Dash Node-RED: n... Node-RED D... node-red-no... +

7213eaae-6366-409c-80a9-50a6d7790b8-bluemix.cloudant.com/dashboard.html#database/controller/_all_docs

controller

Document ID Options {} JSON Create Document

All Documents +

Query

Permissions

Changes

Design Documents +

Log Out

Table Metadata {} JSON

id	key	value
0c3d9f00525b51838ec943582939c09d	0c3d9f00525b51838ec943582939c09d	{ "rev": "1-ac098c597d6367b87dd5d44866b3...
6702a52e8c2b33d0bde4e142b442addc	6702a52e8c2b33d0bde4e142b442addc	{ "rev": "1-6f14643e9e7f6515b8f6bd2cbd3d7...
badb90c3425cb0a235b82e0557077ae7	badb90c3425cb0a235b82e0557077ae7	{ "rev": "1-f14002885afbd6aa37cb70b7734e...
e51aa5beb45db7152c2e109fbf31df2f	e51aa5beb45db7152c2e109fbf31df2f	{ "rev": "1-c54383f561f49c784a424031c1d77...
eb44ee69f755f866ee34a0409c34223f	eb44ee69f755f866ee34a0409c34223f	{ "rev": "1-492860a5570a7201c14f86039314...

Showing document 1 - 5. Documents per page: 30 < >

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Smart Home IBM Cloud Cloud Object Service Detail Cloudant Dash Student Dash Node-RED: n... Node-RED D... node-red-no... +

node-red-gdkmf-2021-07-08.eu-gb.mybluemix.net/red/#

Node-RED

Filter nodes

Flow 1

Flow 2

html

json

xml

yaml

storage

Db2 in

cloudant in

tail

dashDB in

Db2 out

cloudant out

dashDB out

IBM Watson

assistant

IBM IoT

connected

msg payload

Controller input

Edit cloudant out node

Delete Cancel Done

Properties

Service node-red-gdkmf-2021-cloudant-162575217e

Database controller

Operation insert

☒ Only store msg.payload object?

Name Name

Enabled

debug

7/16/2021, 7:48:38 PM node: e0940b8.4432

msg.payload: Object

{ Date: "2022-03-14T18:30:00.000Z", Time: "1970-01-01T00:30:00.000Z" }

7/16/2021, 7:47:59 PM node: e0940b8.4432

msg.payload: Object

{ Date: "2024-11-29T18:30:00.000Z", Time: "1970-01-01T17:15:00.000Z" }

7/16/2021, 7:48:17 PM node: e0940b8.4432

msg.payload: Object

{ Date: "2021-07-11T18:30:00.000Z", Time: "1969-12-31T20:24:00.000Z" }

7/16/2021, 7:48:49 PM node: e0940b8.4432

msg.payload: Object

{ Date: "2021-01-15T18:30:00.000Z", Time: "1970-01-01T00:30:00.000Z" }

7/16/2021, 7:49:29 PM node: e0940b8.4432

msg.payload: Object

{ Date: "2021-10-04T18:30:00.000Z", Time: "1970-01-01T03:24:00.000Z" }

28°C Rain 20:08 18-07-2021