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Assignment  
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## Assignment 5

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:Question: Pump controller UI with storage in cloudant database.

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## Nodes

=====

```
[{"id":"a222fbcdded3bcaa7","type":"tab","label":"Assignment 5","disabled":false,"info":"","env":[]},
{"id":"06fd9d2bdcea9655","type":"ui_form","z":"a222fbcdded3bcaa7","name":"","label":"StartTime","group":"0bcf0a7ce12f3418","order":2,"width":0,"height":0,"options":[{"label":"StartTime","value":"starttime","type":"time","required":true,"rows":null}],formValue":{"starttime":"","payload":"","submit":"submit","cancel":"cancel","topic":"topic","topicType":"msg","splitLayout":"","className":"","x":160,"y":260,"wires":[["89f16eb3456d36d6"]]},
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{"id":"e24653d597d172ad","type":"ui_form","z":"a222fbcdded3bcaa7","name":"","label":"EndTime","group":"0bcf0a7ce12f3418","order":4,"width":0,"height":0,"options":[{"label":"EndTime","value":"endtime","type":"time","required":true,"rows":null}],formValue":{"endtime":"","payload":"","submit":"submit","cancel":"cancel","topic":"topic","topicType":"msg","splitLayout":"","className":"","x":160,"y":420,"wires":[["9275add2aee3a347"]]},
{"id":"814b0a7fd78f85fe","type":"ui_form","z":"a222fbcdded3bcaa7","name":"","label":"EndDate","group":"0bcf0a7ce12f3418","order":3,"width":0,"height":0,"options":[{"label":"EndDate","value":"enddate","type":"date","required":true,"rows":null}],formValue":{"enddate":"","payload":"","submit":"submit","cancel":"cancel","topic":"topic","topicType":"msg","splitLayout":"","className":"","x":160,"y":340,"wires":[["41dccec13bd400c6"]]},
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{"id":"e0ceec67cb2f02ec","type":"cloudant out","z":"a222fbcdded3bcaa7","name":"StartDate","cloudant":"efb14c2bed528a52","database":"products","service":"_ext_","payonly":true,"operation":"insert","x":640,"y":200,"wires":[]},
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```

```

ducts","service": "_ext_","payonly":true,"operation":"insert","x":640,"y":280,"wires":[]},
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out","z":"a222fbcdded3bcaa7","name":"EndTime","cloudant":"efb14c2bed528a52","database":"prod
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{"id":"ccb1b9d47920ccaf","type":"function","z":"a222fbcdded3bcaa7","name":"StartDate","func":
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nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":380,"y":180,"wires":
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nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":380,"y":340,"wires":
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nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":380,"y":420,"wires":
[[\"46fa5b44e62fae10\", \"9d97bc7d71e353bb\"]]},
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1,"disp":true,"width":8,"collapse":false,"className":""},
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3c7846-0248-4408-9017-f9e415556d98-
bluemix.cloudantnosqldb.appdomain.cloud","name":"CloudantCred1"},
{"id":"8113e3887db088f0","type":"ui_tab","name":"Assignment5","icon":"dashboard","disabled":f
alse,"hidden":false}]

```

Screenshots

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## Assignment5

**WebUI**

**StartDate**  
Start Date \*

SUBMIT CANCEL

**StartTime**  
Start Time \*

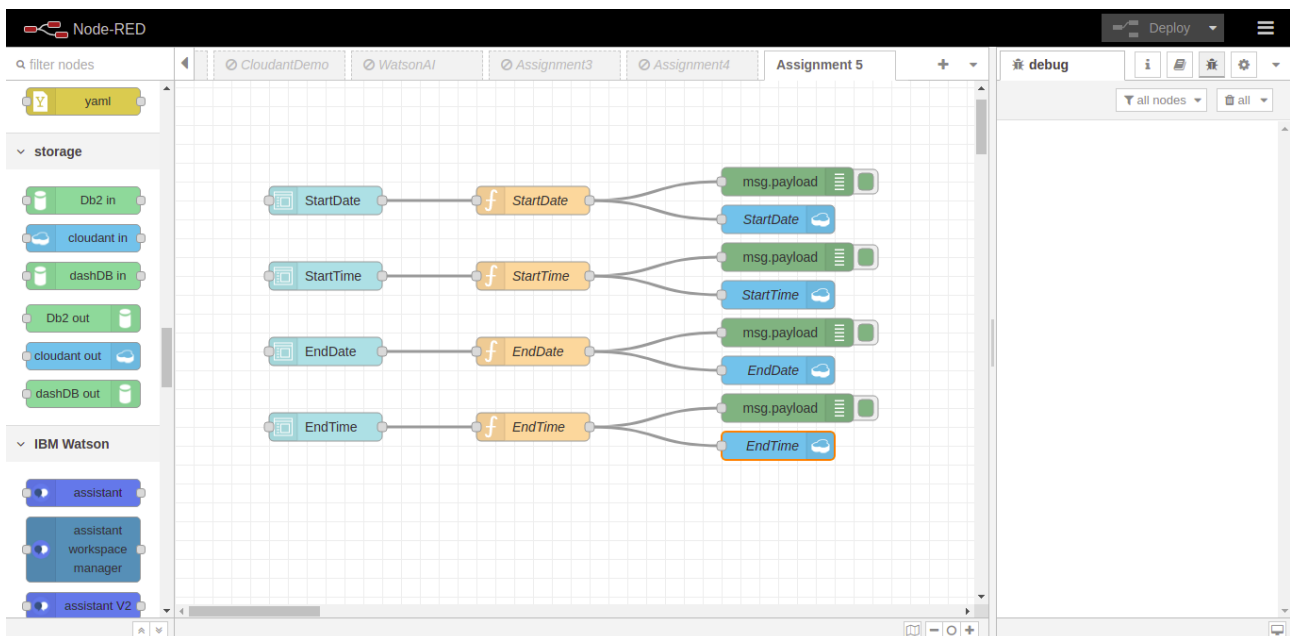
SUBMIT CANCEL

**EndDate**  
End Date \*

SUBMIT CANCEL

**EndTime**  
End Time \*

SUBMIT CANCEL



Node-RED

Deploy

filter nodes

storage

Db2 q

cloudant

dashDB

IBM Watson

Enabled

Edit form node

Delete

Cancel

Done

Properties

Group

[Assignment5] WebUI

Size

auto

Label

StartDate

Form elements

Label	Name	Type	Required	UiRows	Remove
Start Date	startdate	Date	<input checked="" type="checkbox"/>		

Enabled

debug

all nodes

all

Node-RED

Deploy

filter nodes

storage

Db2 q

cloudant

dashDB

IBM Watson

Enabled

Edit form node

Delete

Cancel

Done

Properties

Group

[Assignment5] WebUI

Size

auto

Label

StartTime

Form elements

Label	Name	Type	Required	UiRows	Remove
Start Time	starttime	Time	<input checked="" type="checkbox"/>		

Enabled

debug

all nodes

all

Node-RED interface showing the "Edit function node" configuration for a function named "StartDate".

**Properties:**

- Name: StartDate

**On Message:**

```
1- msg.payload = {
2-   "id": "products:startdate",
3-   "startdate": msg.payload.startdate
4- };
5- return msg;
```

The function node is currently **Enabled**.

Node-RED interface showing the "Edit function node" configuration for a function named "StartTime".

**Properties:**

- Name: StartTime

**On Message:**

```
1- msg.payload = {
2-   "id": "products:starttime",
3-   "starttime": msg.payload.starttime,
4- };
5- return msg;
```

The function node is currently **Enabled**.

## Assignment5

### WebUI

#### StartDate

Start Date \*  
10/12/2021

SUBMIT

CANCEL

#### StartTime

Start Time \*  
23:34

SUBMIT

CANCEL

#### EndDate

End Date \*

SUBMIT

CANCEL

#### EndTime

End Time \*

Node-RED interface showing the Assignment 5 workflow and debug console.

**Workflow:**

- Inputs: StartDate, StartTime, EndDate, EndTime
- Functions: StartDate, StartTime, EndDate, EndTime
- Outputs: msg.payload, StartDate, StartTime, EndDate, EndTime

**Debug Console:**

```
14/12/2021, 22:34:55 node: 699762f95d3d6173
msg.payload: Object
{ _id: "products:startdate",
  startdate: "2021-12-09T18:30:00.000Z" }

14/12/2021, 22:34:55 node: StartDate
msg: string[45]
"Failed to insert document: couch returned 409"

14/12/2021, 22:34:56 node: a3595373eee74d68
msg.payload: Object
{ _id: "products:starttime",
  starttime: "1970-01-01T18:04:00.000Z" }
```

↔

products

⋮

📊

🗄️

🔍

📄

👤

🎧

📖

🌐

Log Out

🔍 No partition selected

Document ID

Options

{ } JSON

📖

🔔

All Documents

+

Query

Permissions

Changes

Design Documents

+

☐

Table

Metadata

{ } JSON

📄

Create Document

	id	key	value
<input type="checkbox"/>	📄 https://s3.jp-tok.cloud-object-storage....	https://s3.jp-tok.cloud-object-storage....	{ "rev": "1-967a00dff5e02add418191..." }
<input type="checkbox"/>	products:10001	products:10001	{ "rev": "1-f24cf29b3b5e3c1636d4e4..." }
<input type="checkbox"/>	products:startdate	products:startdate	{ "rev": "3-559fc892acbe7215023ecf..." }
<input type="checkbox"/>	products:starttime	products:starttime	{ "rev": "1-2aab72249a09bb7b07574..." }

Showing document 1 - 4. Documents per page: 20 < >

↔

products > products:startdate

{ } JSON

📖

🔔

Save Changes

Cancel

Upload Attachment

Clone Document

Delete

1

2

3

4

5

```
1 {
2   "_id": "products:startdate",
3   "_rev": "3-559fc892acbe7215023ecf1b9cf93223",
4   "startdate": "2021-12-14T18:30:00.000Z"
5 }
```

Log Out

↔

products > products:starttime

{ } JSON

📖

🔔

✓ Save Changes

Cancel

⬆️ Upload Attachment

🔄 Clone Document

🗑️ Delete

1 + {

2    "\_id": "products:starttime",

3    "\_rev": "1-2aab72249a09bb7b075749d8c61a2409",

4    "starttime": "1970-01-01T18:04:00.000Z"

5 }

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📖

🌐

Log Out