

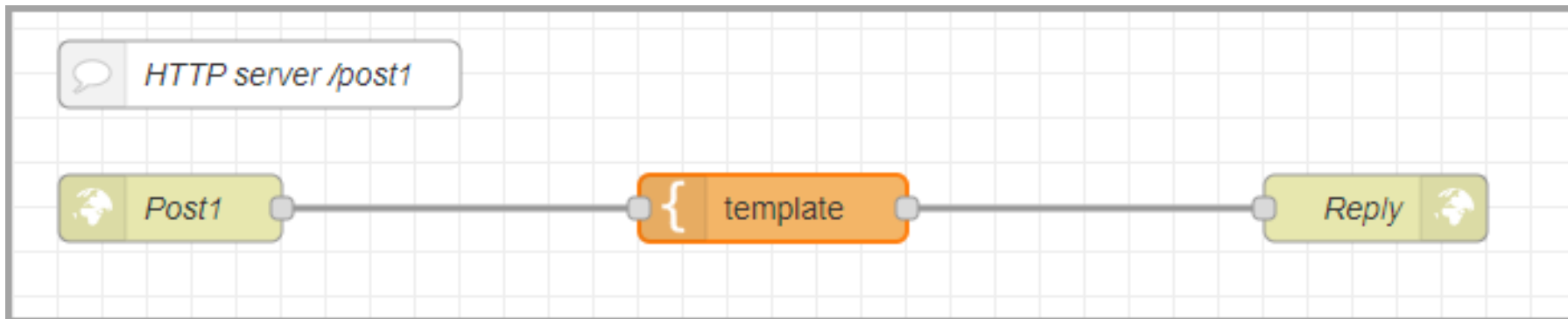
Production Supporting Systems in Factories

ระบบสนับสนุนการผลิตในโรงงานอุตสาหกรรม

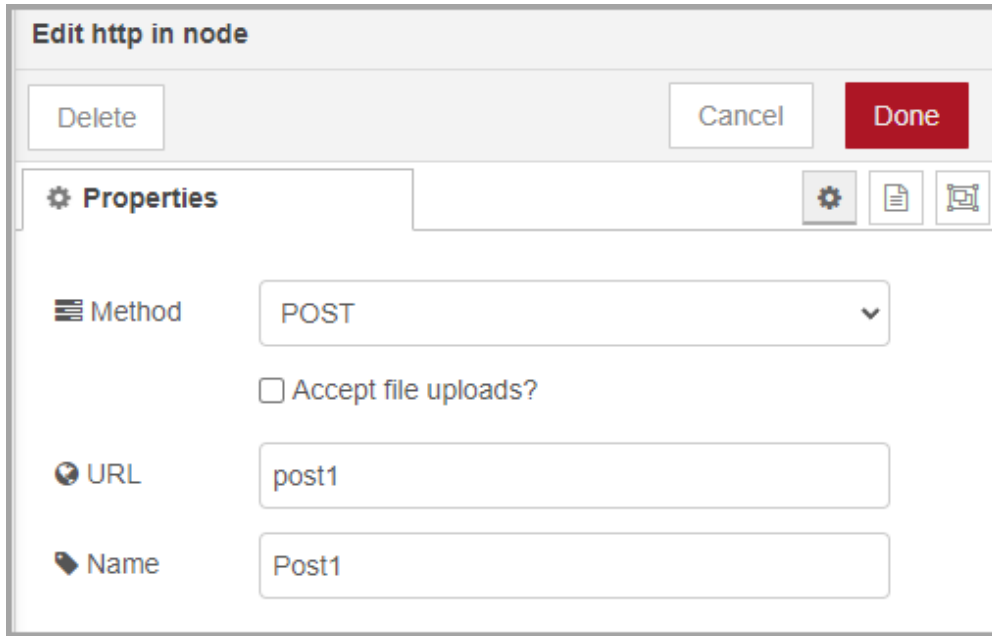
Module 2-1: HTTP POST Server

Server listening to **POST** requests

- Create a server that receives **POST** requests.
 - Flow



- http in node



The screenshot shows a dialog box titled "Edit http in node". At the top, there are three buttons: "Delete", "Cancel", and "Done". Below the buttons is a tabbed interface with a "Properties" tab selected. The "Properties" tab contains the following fields:

- Method:** A dropdown menu currently showing "POST".
- Accept file uploads?:** An unchecked checkbox.
- URL:** A text input field containing "post1".
- Name:** A text input field containing "Post1".

- Send the transformed message back.
- Try sending the post requests to your friends public address.

- **template node**

Edit template node

Delete

Cancel

Done

Properties

Name

Property

▼ msg. payload

Template

Syntax Highlight:

mustache

1

I got your message: `{{payload}}` !

- http response node

Edit http response node

Delete Cancel Done

⚙️ **Properties** ⚙️ 📄 🔄

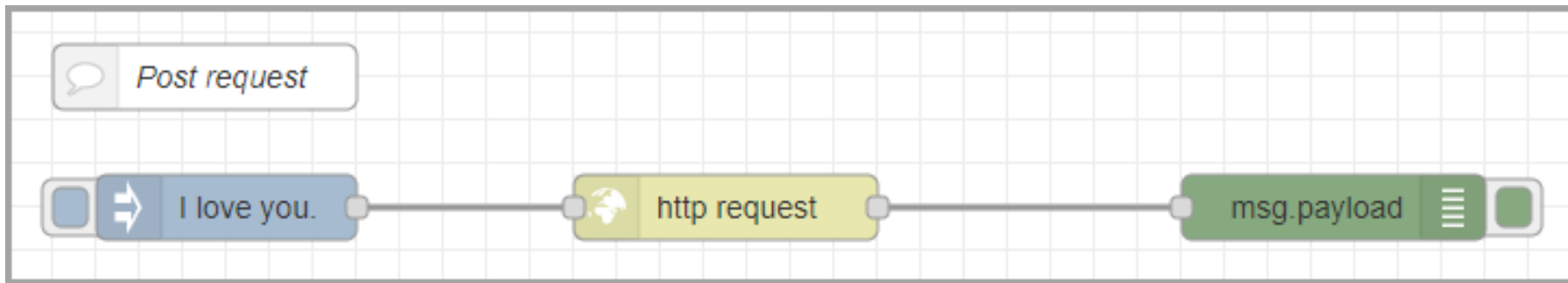
🏷️ Name Reply

← Status code msg.statusCode

☰ Headers

Send POST request from node-red

- Create a **post** request
 - Flow



- inject node

The screenshot shows a dialog box titled "Edit inject node". At the top, there are three buttons: "Delete", "Cancel", and "Done" (which is highlighted in red). Below the buttons is a section labeled "Properties" with a gear icon and three sub-icons (a gear, a document, and a monitor). Under "Properties", there is a "Name" field with a placeholder text "Name". Below the "Name" field, there are three rows of configuration for message properties. Each row has a label on the left, an equals sign, a dropdown menu, and a text input field. The first row is labeled "msg. payload" and has a dropdown menu with "a_z" and a text input field containing "I love you.". The second row is labeled "msg. topic" and has a dropdown menu with "a_z" and an empty text input field. The third row is labeled "msg. url" and has a dropdown menu with "a_z" and a text input field containing "http://localhost:1880/post1". Each row also has a small "x" icon in a square box to its right.

- Note: If there is a connection error, use `http://127.0.0.1:1880/post1`
 - What?

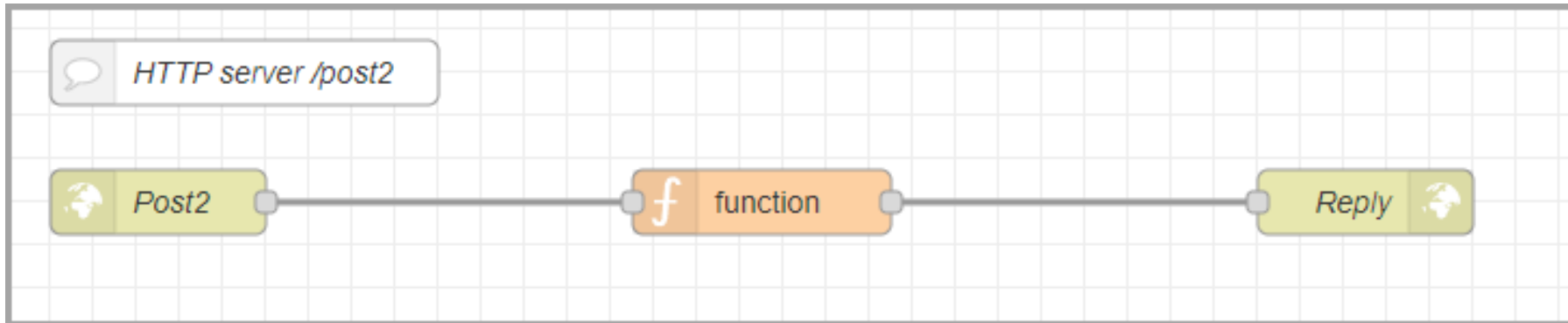
Send POST request from another program

Software

- Postman Desktop
- Chrome
 - Advancd REST Client
- Firefox
 - RESTClient

Serving dynamic content

- Create another url that response with dynamic content.
 - Flow



- `http in node`
 - `url = post2`

- function node



(code on the next page)

```
const message = msg.payload;
const date = new Date();
const time = date.toLocaleTimeString();

msg.payload = `I got your message "${message}" at ${time} !`;
return msg;
```

- Try send in a post message to `.../post2`.
- Also try sending a post message to your friend's public address.

Class Attendance

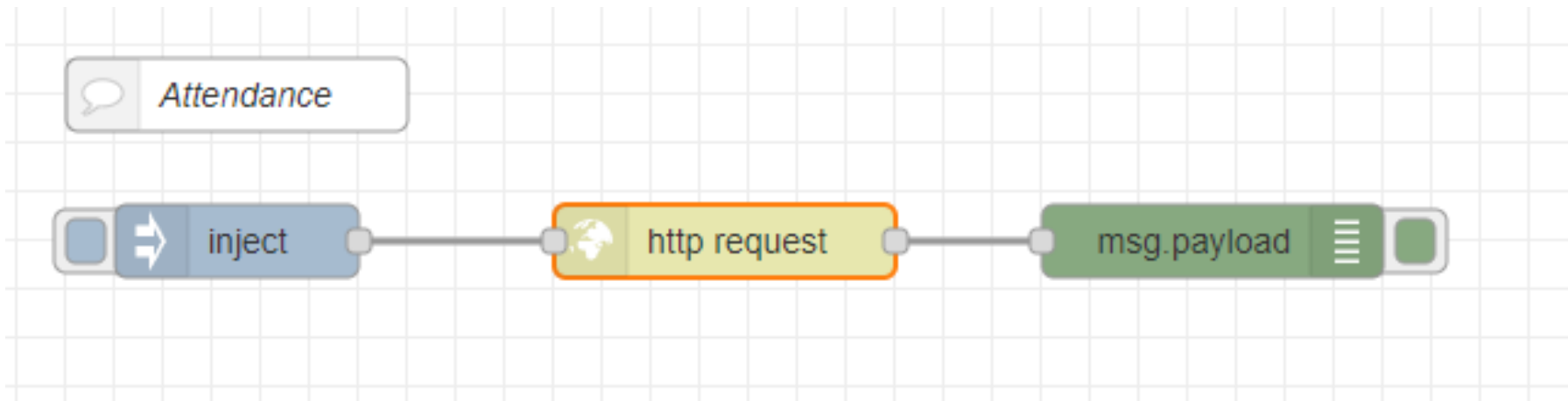
การทำเรื่องง่ายๆให้มันยาก

วิธีการเช็คชื่อ

- Send `Post` request to
`https://materials-line-oa-production.up.railway.app/prodsup`
- Payload
 - `cmu_id` : your 9-digit student id
 - `code` : 4-character code from the screen (ไม่เอา `CODE:`)

```
{  
  "cmu_id": "111222333",  
  "code": "xxxx"  
}
```

- Flow



- inject node
 - msg.payload

Edit inject node > **JSON editor**

Cancel Done

Edit JSON Visual editor

format JSON

```
1 {  
2   "cmu_id": "111222333",  
3   "code": "xxxx"  
4 }
```

- http request node

Edit http request node

Delete

Cancel

Done

⚙ Properties

⚙ 📄 🖼

☰ Method

POST

▼

🌐 URL

https://materials-line.herokuapp.com/prodsup

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

← Return

a UTF-8 string

▼

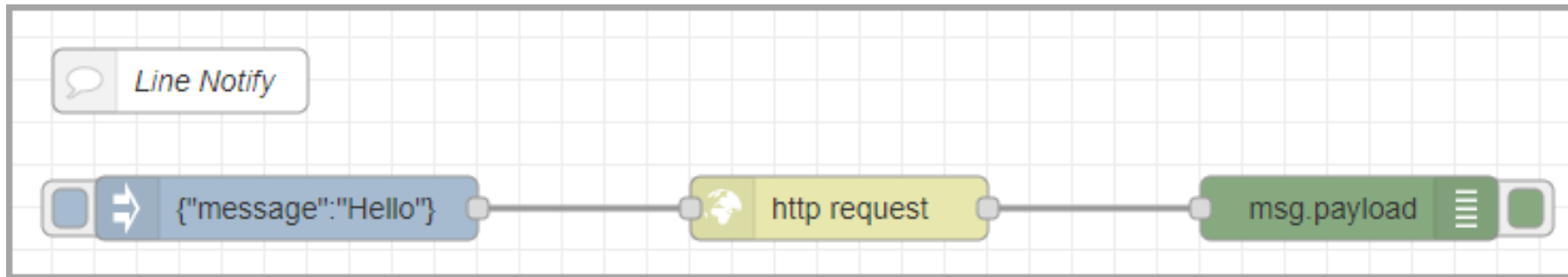
🔖 Name

Name

Module 2-2: Line Notify

- ສ້າງກຸ່ມ LINE ກາຍໃນ Group
- ໄປທີ່ <https://notify-bot.line.me/en/>
 - Login (need to verify number on smart phone)
 - Go to My page
 - Click Generate token
 - Enter Token Name and select a chat room.
 - Copy the token and store it somewhere.

- Let send a line notification through Node-Red
 - Flow



- inject node

Edit inject node

Delete Cancel Done

JSON **Edit**

⚙ Properties

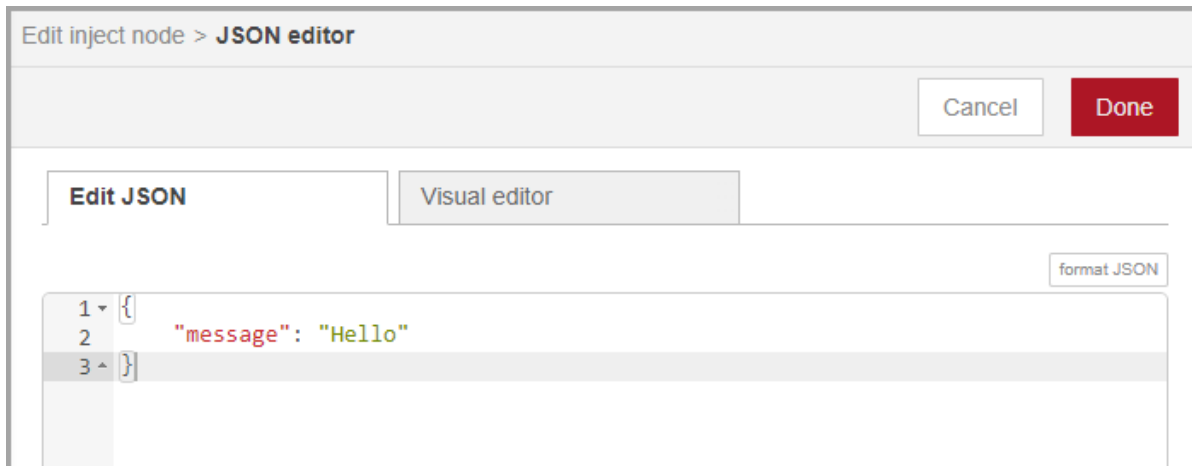
📌 Name Name

msg. payload = {} {"message": "Hello"} ... x

msg. headers = {} {"Content-Type": "application/x-www-"} ... x

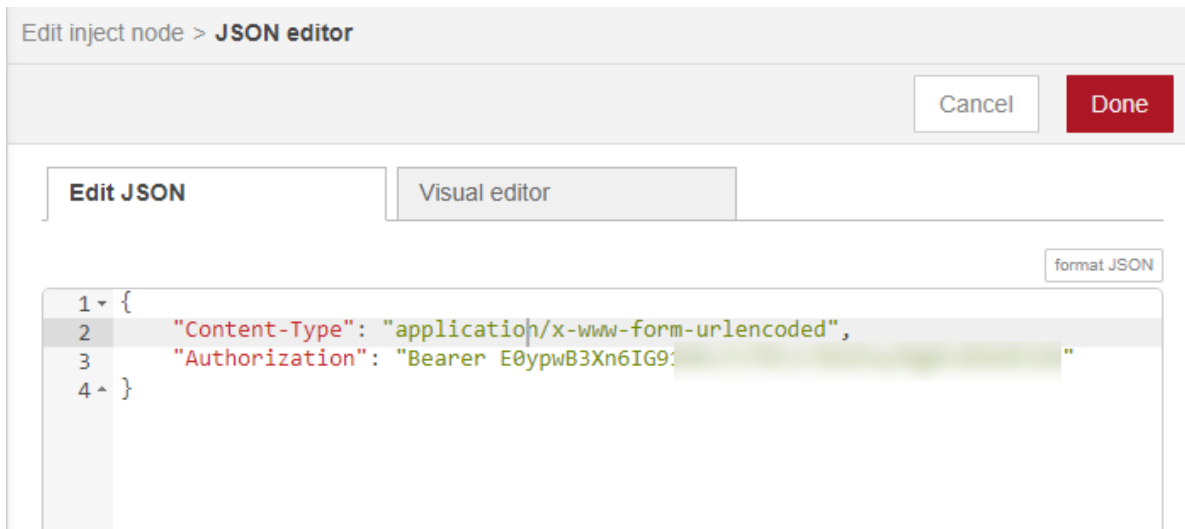
- Set `msg.payload` to (JSON)

```
{  
  "message": "Hello"  
}
```



- Set `msg.headers` to (JSON)

```
{  
  "Content-Type": "application/x-www-form-urlencoded",  
  "Authorization": "Bearer <<YOUR LINE TOKEN>>"  
}
```



- `http request node`
 - **Method:** `POST`
 - **URL:** `https://notify-api.line.me/api/notify`

Edit http request node

Delete

Cancel

Done

⚙ Properties

⚙

📄

🔗

☰ Method

POST

▼

🌐 URL

https://notify-api.line.me/api/notify

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

⬅ Return

a UTF-8 string

▼

🔖 Name

Name

255217: Production Supporting Systems in Factories

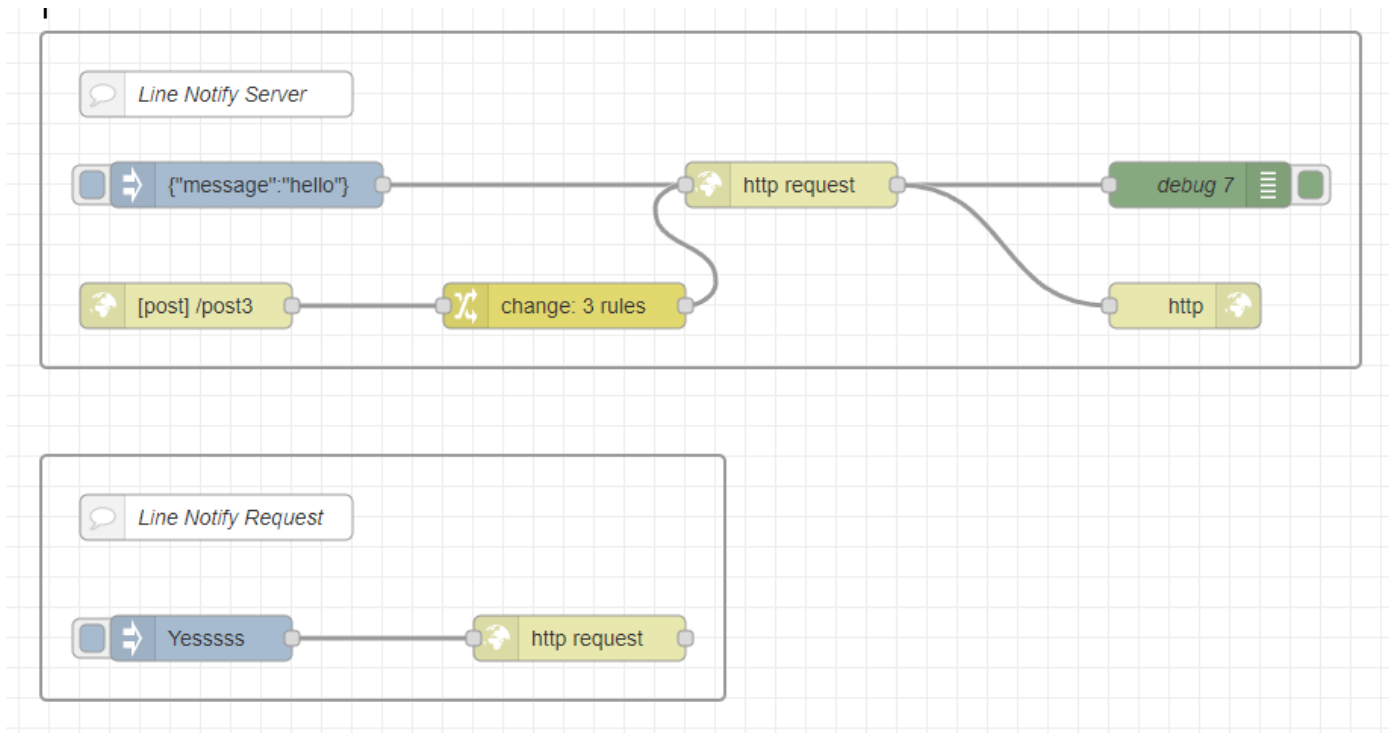
29

- Add `debug` node to see the output.
 - You can inspect the error.
- Try injecting to see if the notification.

Extra

- Make a server that send the message to `Line`.
 - The message comes from the `POST` request.

Extra



Extra

Edit change node

Delete

Cancel

Done

Properties

Name

Rules

Set

▼

msg. payload

to the value

▼ {} {"message":"Helooooo"}

Set

▼

msg. headers

to the value

▼ {} {"Content-Type":"application/x-www-fi

Set

▼

msg. url

to the value

▼ ^a_z https://notify-api.line.me/api/notify