

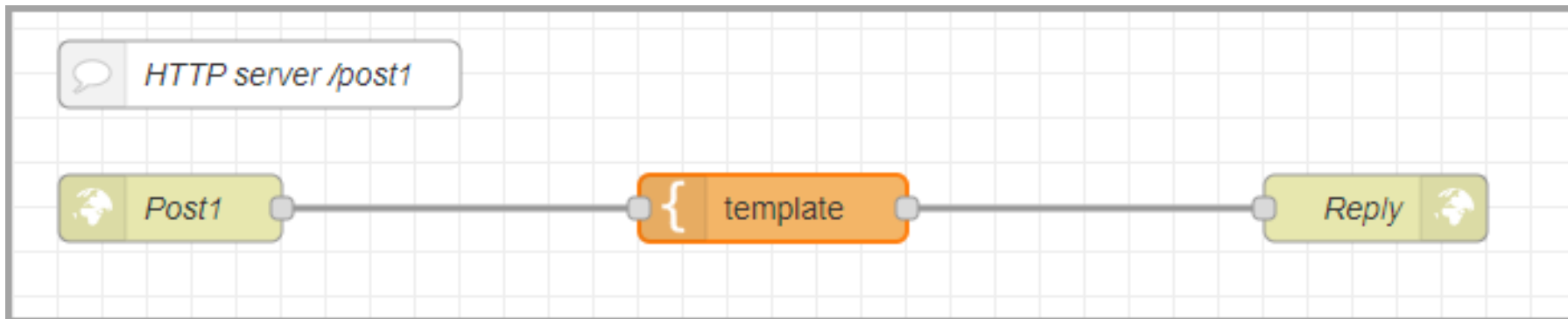
Production Supporting Systems in Factories

ระบบสนับสนุนการผลิตในโรงงานอุตสาหกรรม

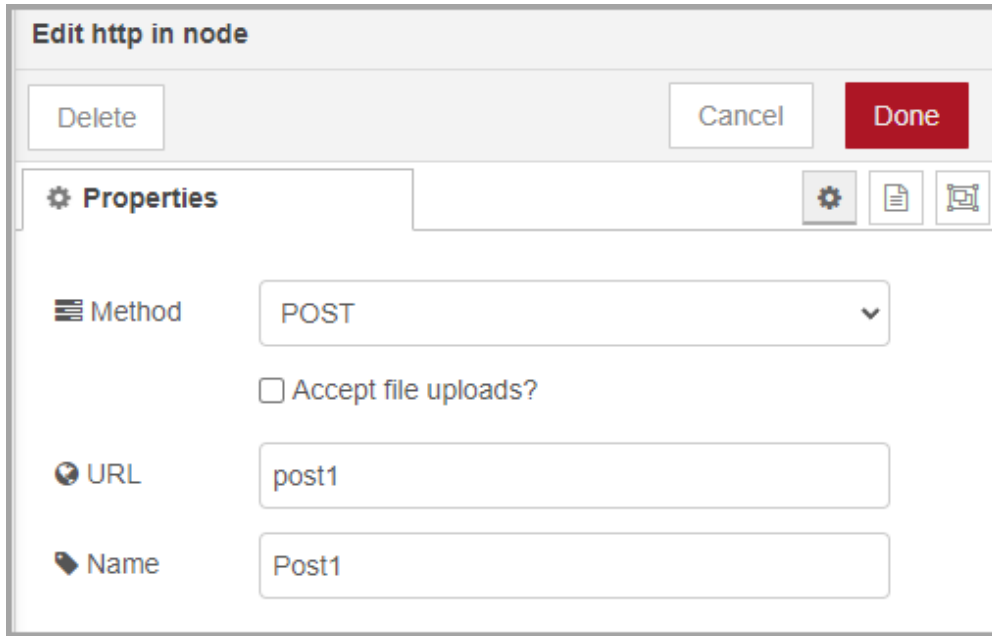
Module 2-1: HTTP POST Server

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".

On the right side of the "Properties" tab, there are three icons: a gear (settings), a document (file), and a monitor (preview).

- 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

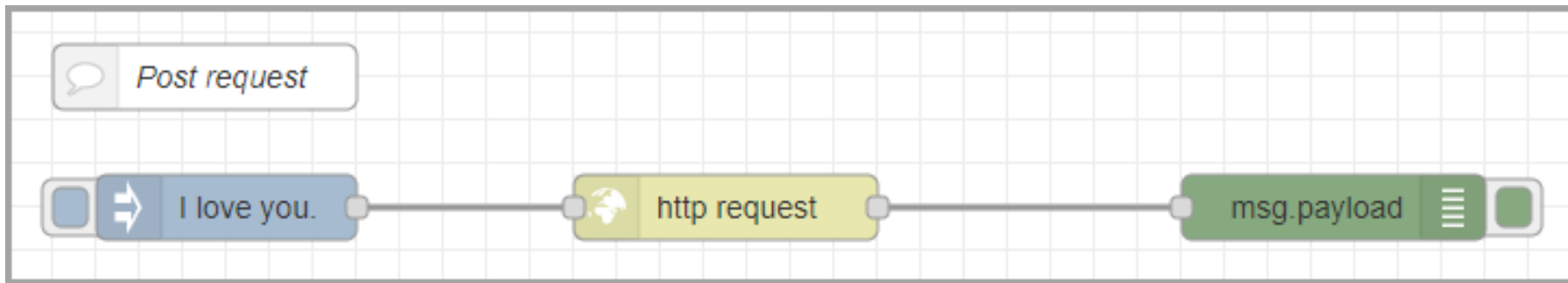
Status code

msg.statusCode

Headers

Send POST request from node-red

- Create a **post** request
 - Flow



- inject node

Edit inject node

Delete Cancel Done

⚙ Properties

🏷 Name

≡ msg. payload = ▼ a_z I love you. ✕

≡ msg. topic = ▼ a_z ✕

≡ msg. url = ▼ a_z http://localhost:1880/post1 ✕

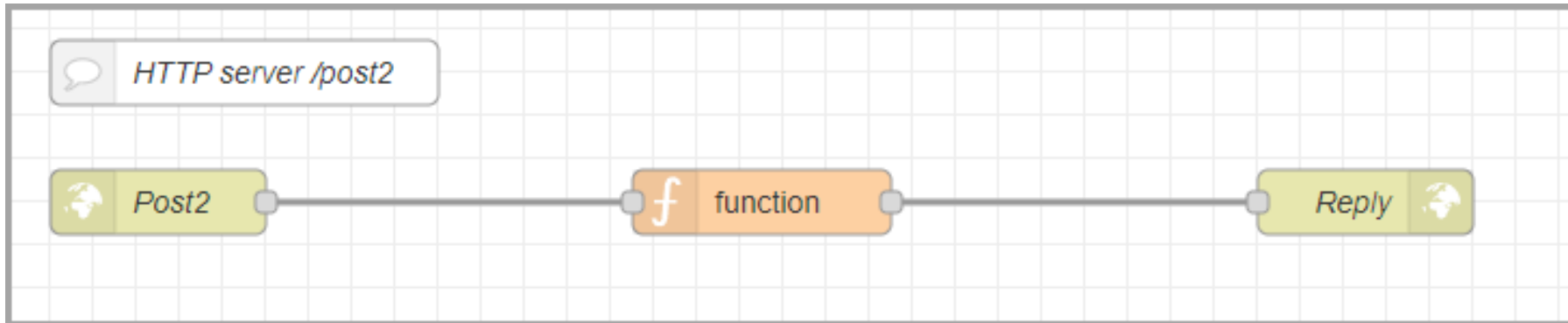
Send POST request from another program

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

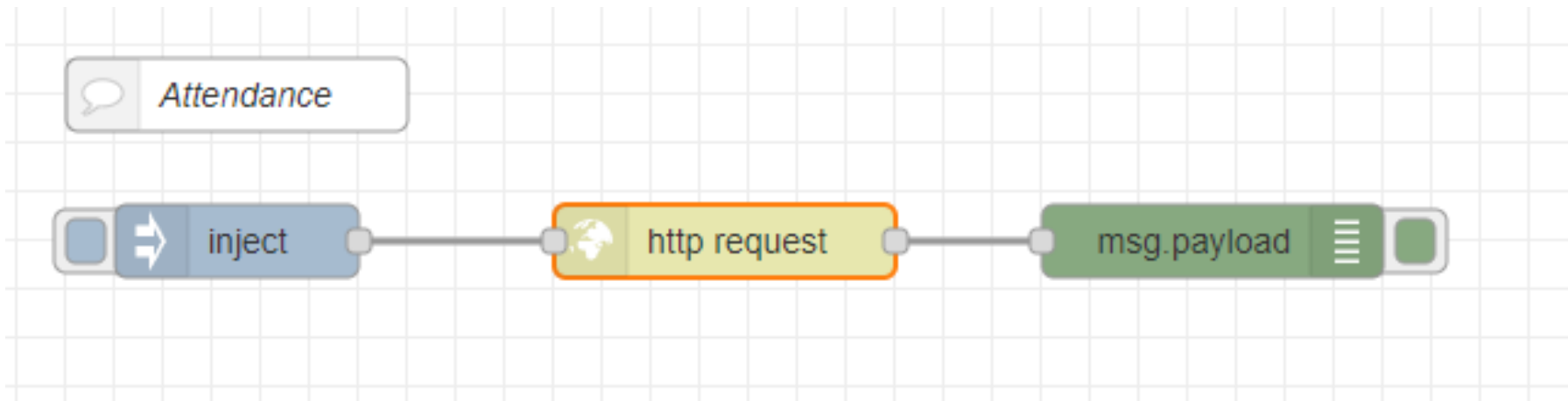
การทำเรื่องง่ายๆให้มันยาก

วิธีการเช็คชื่อ

- Send `Post` request to <https://materials-line.herokuapp.com/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

▼

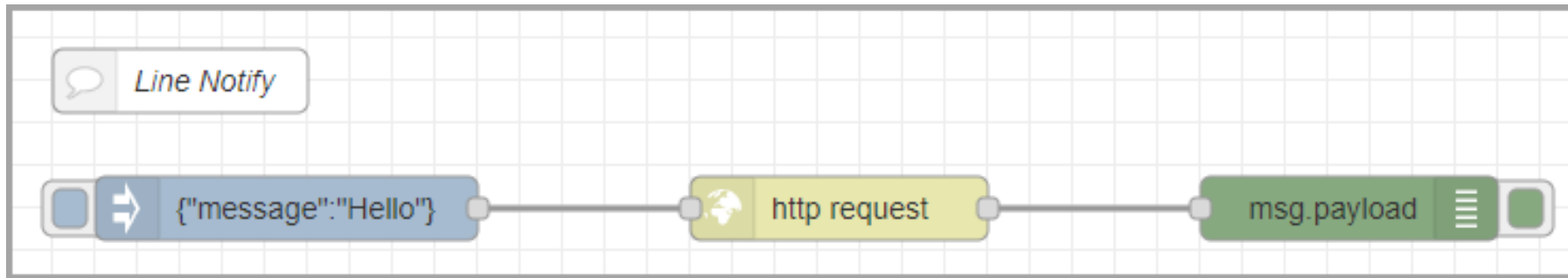
🔖 Name

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

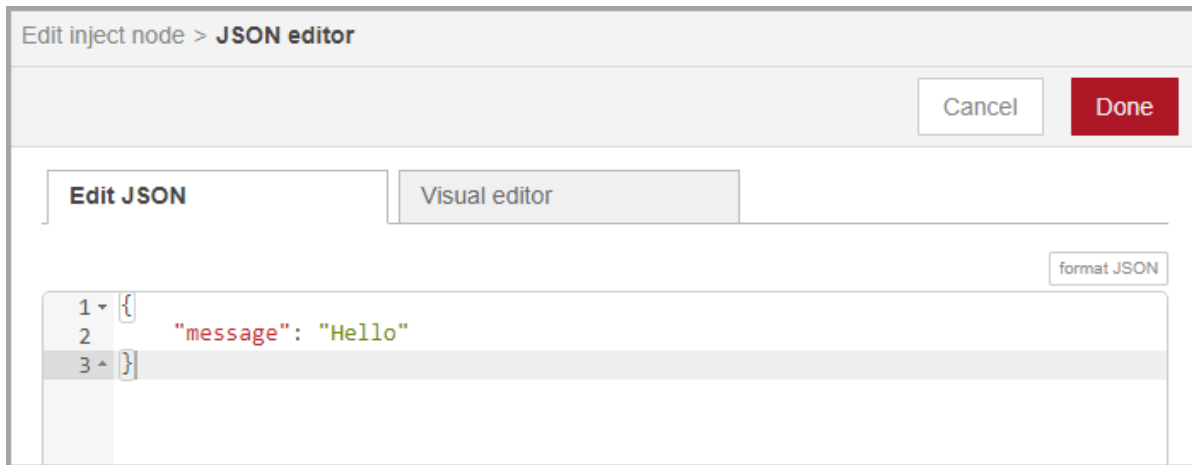
📌 Name Name

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

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

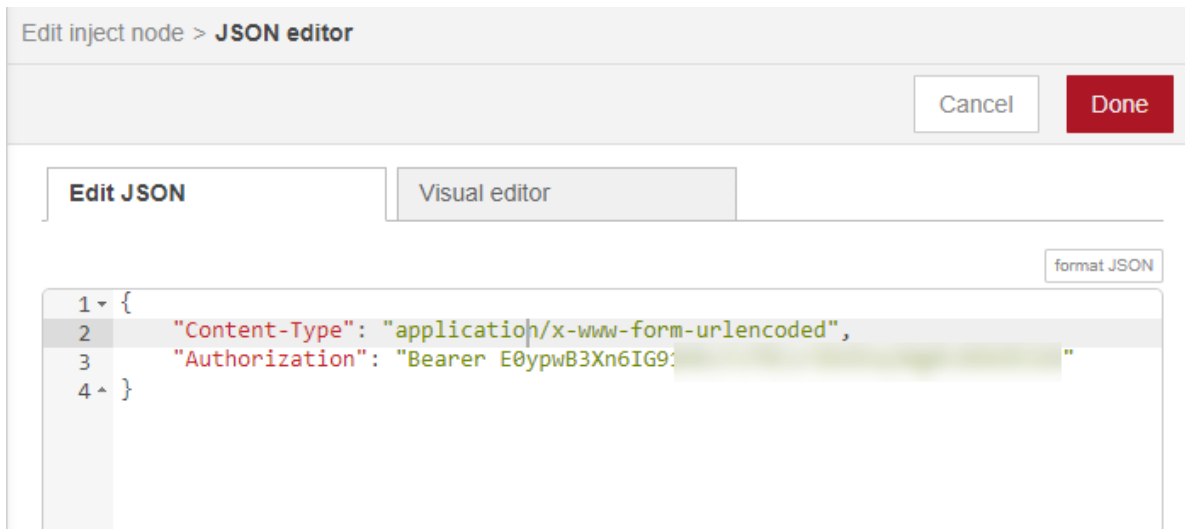
- Set `msg.payload` to (JSON)

```
{  
  "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

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- 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.