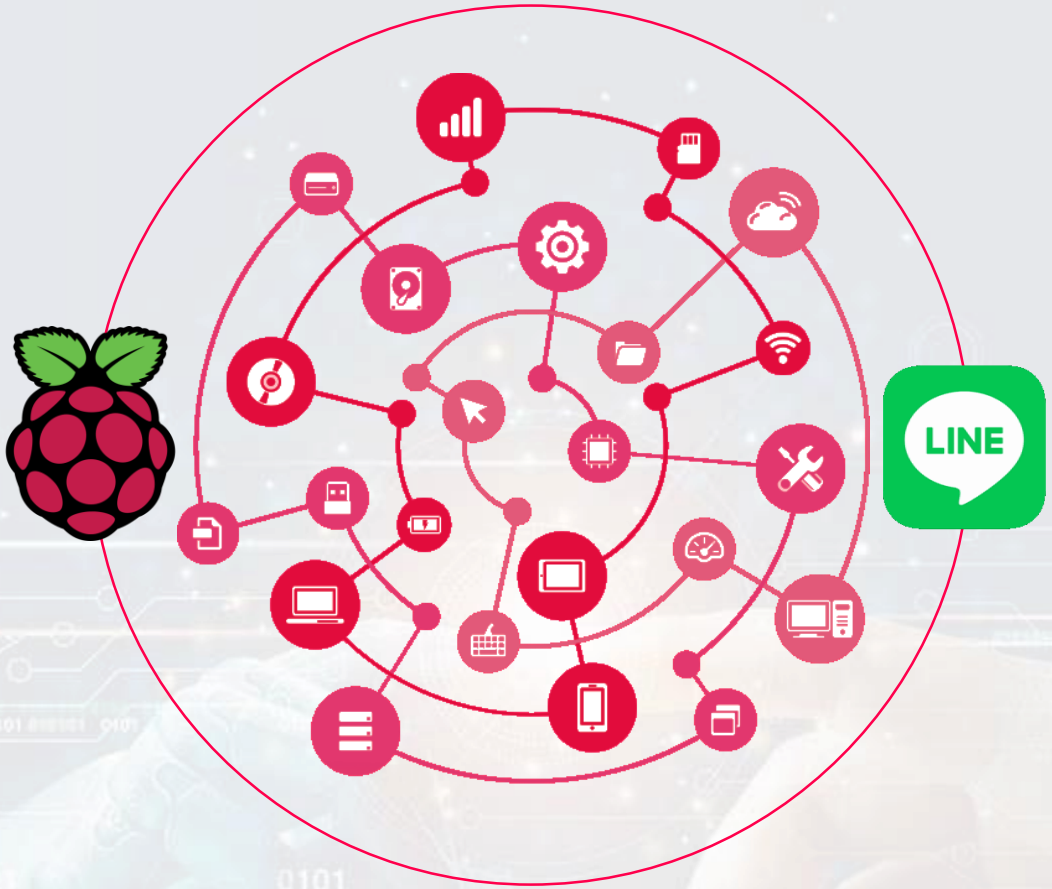


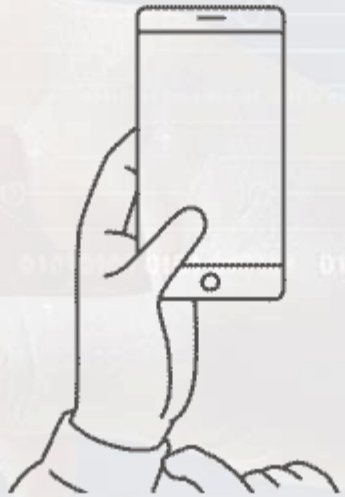
ROS2 Line Notify
By TESR

ROS2

Thai Embedded

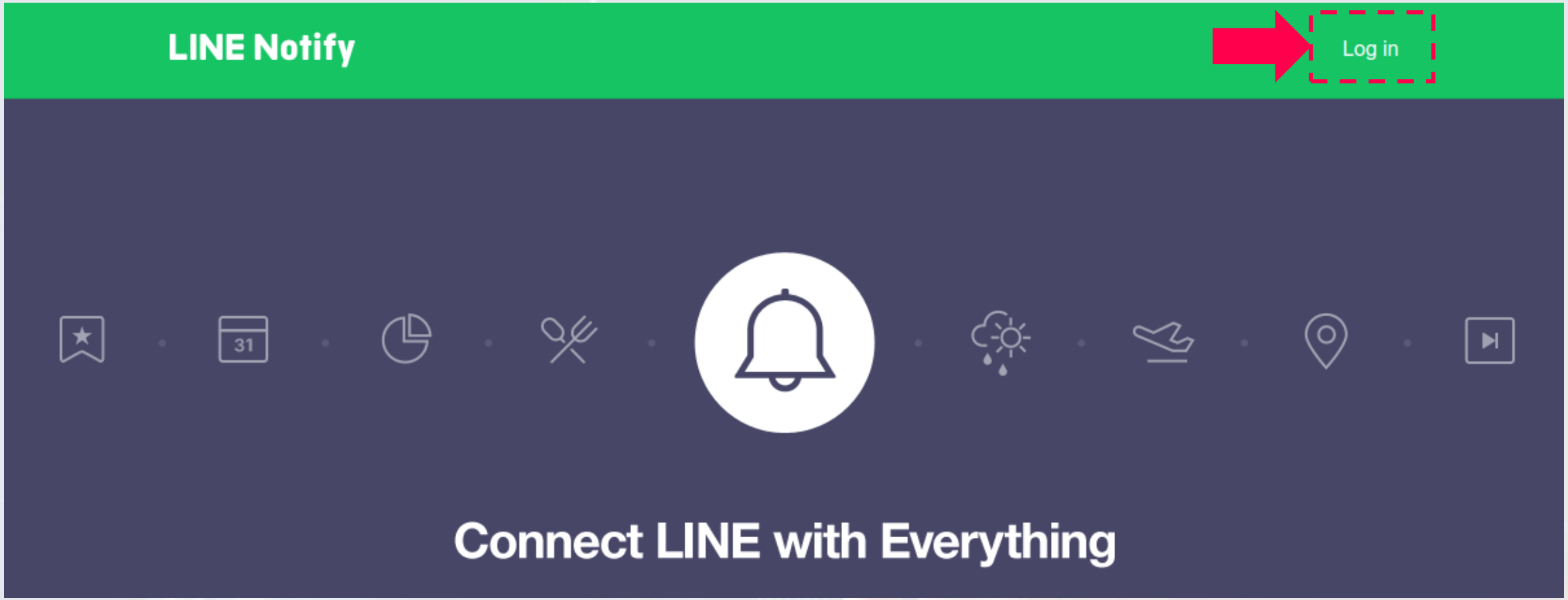
IoT(Internet of things)

- **Internet of things** – the description of technologies that have the ability to connect and exchange the data through the internet.



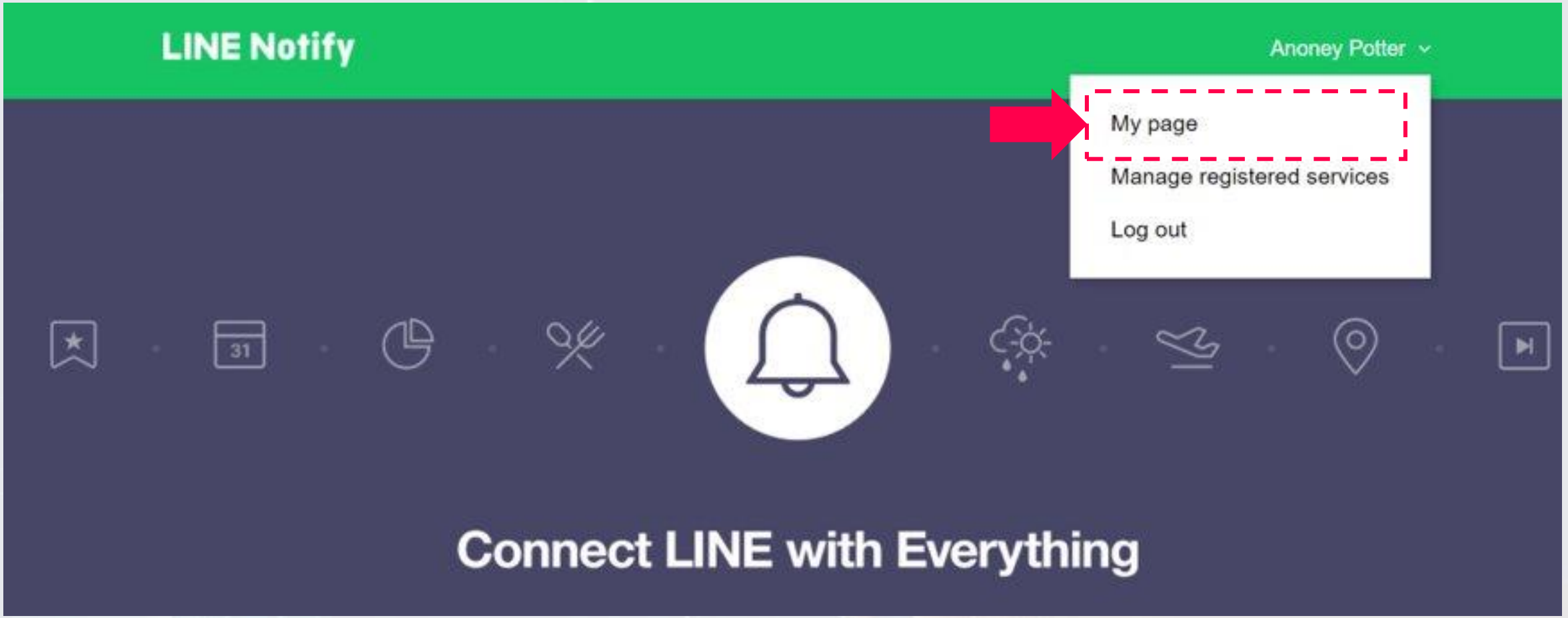
Line Notify

Line Notify

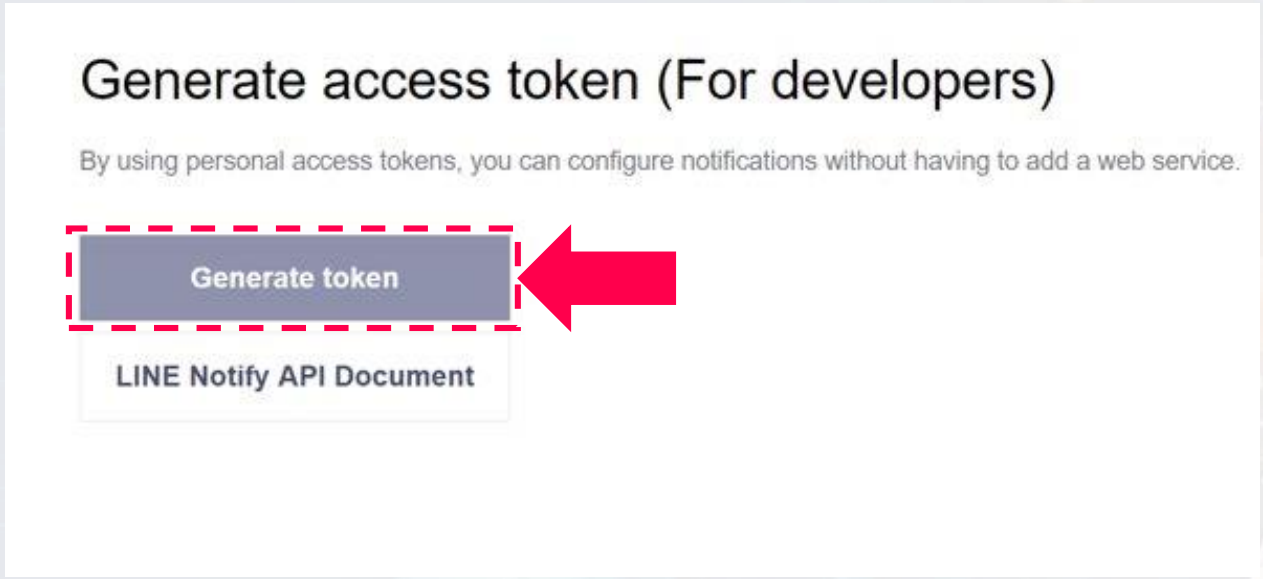


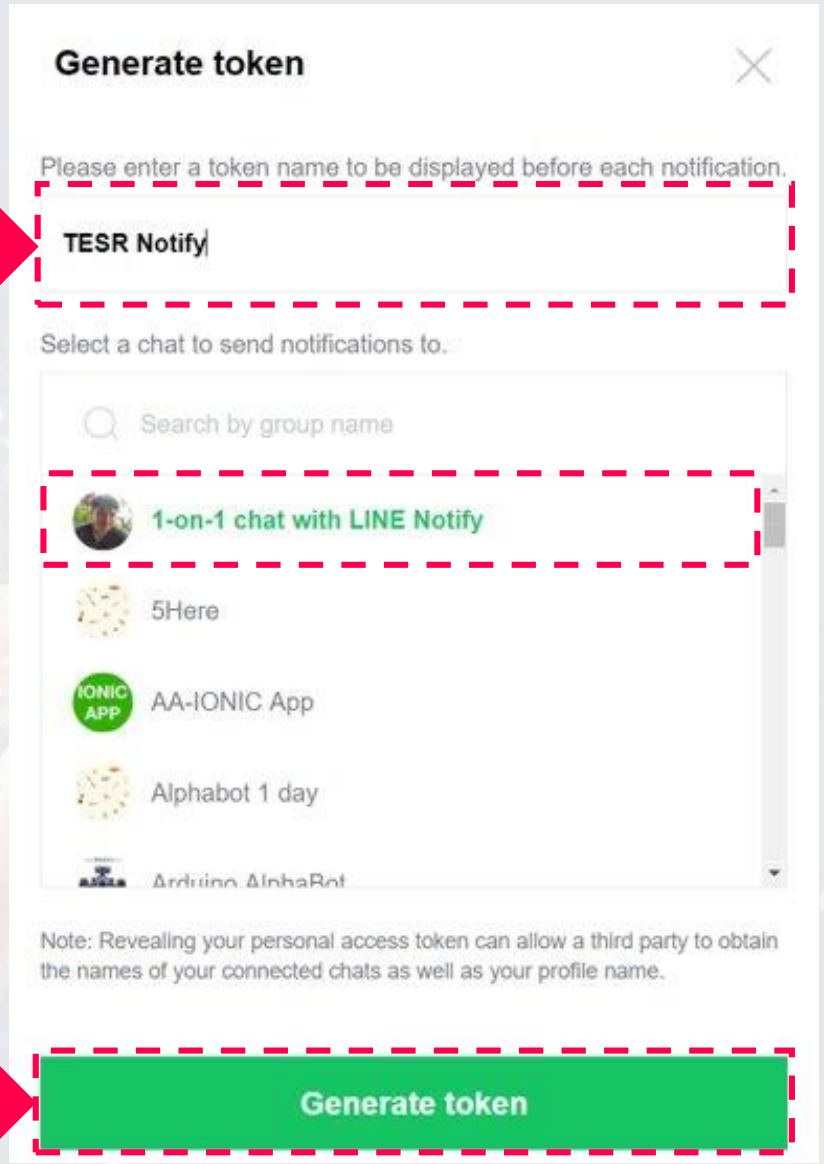
https://notify-bot.line.me/en/

Line Notify


LINE Notify
Anoney Potter
My page
Manage registered services
Log out
Connect LINE with Everything

Line Notify


Generate access token (For developers)
By using personal access tokens, you can configure notifications without having to add a web service.
Generate token
LINE Notify API Document


Generate token
Please enter a token name to be displayed before each notification.
TESR Notify
Select a chat to send notifications to.
Search by group name
1-on-1 chat with LINE Notify
5Here
AA-IONIC App
Alphabot 1 day
Note: Revealing your personal access token can allow a third party to obtain the names of your connected chats as well as your profile name.
Generate token

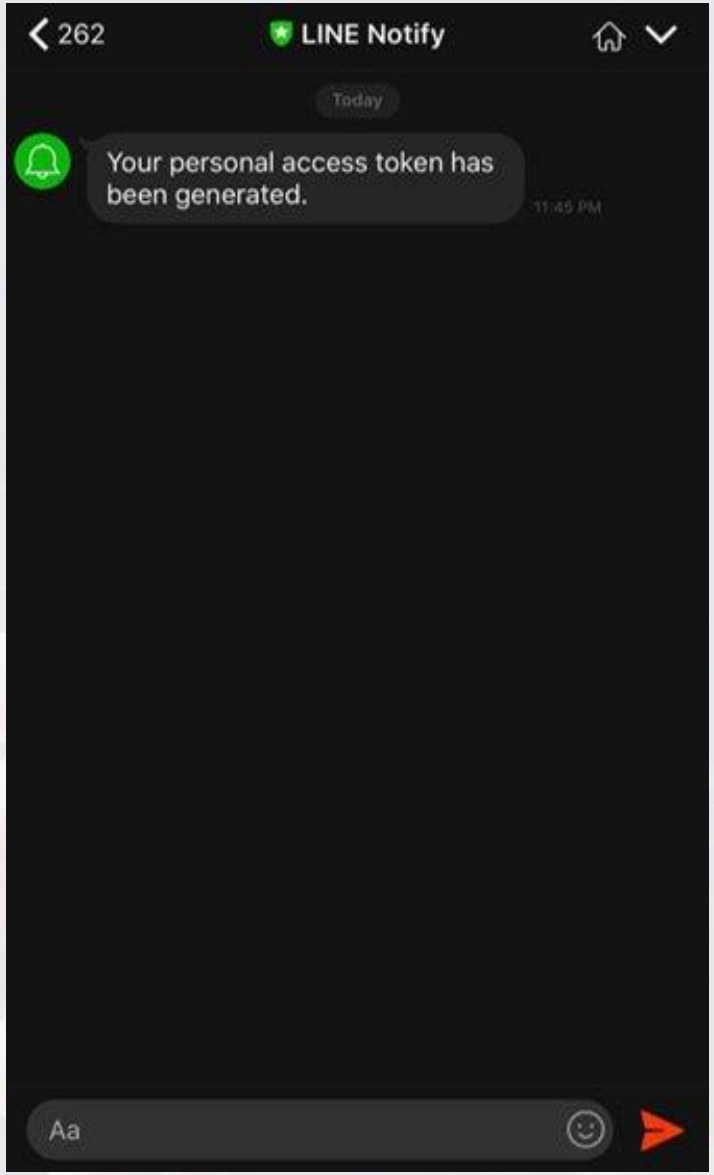
Line Notify

Your token is:

BnnKeef4civQ0yCdkQj06SppDEwPPkOZncONX

If you leave this page, you will not be able to view your newly generated token again. Please copy the token before leaving this page.

Copy | Close

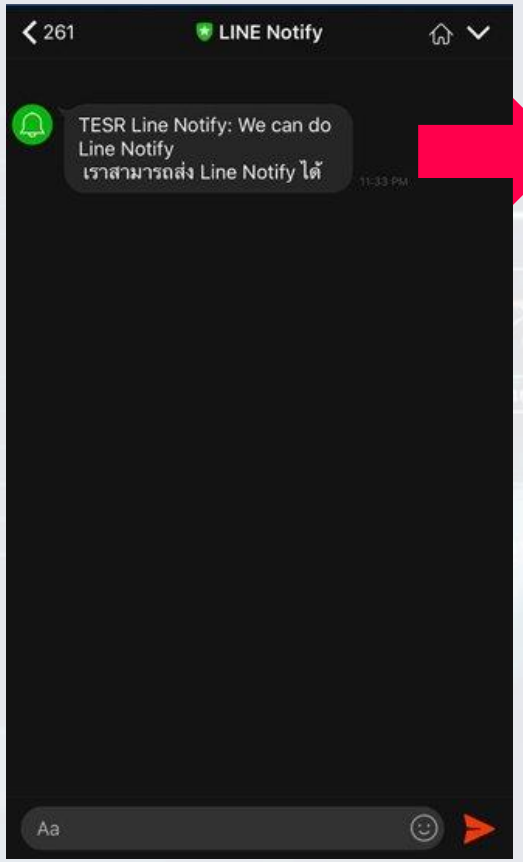


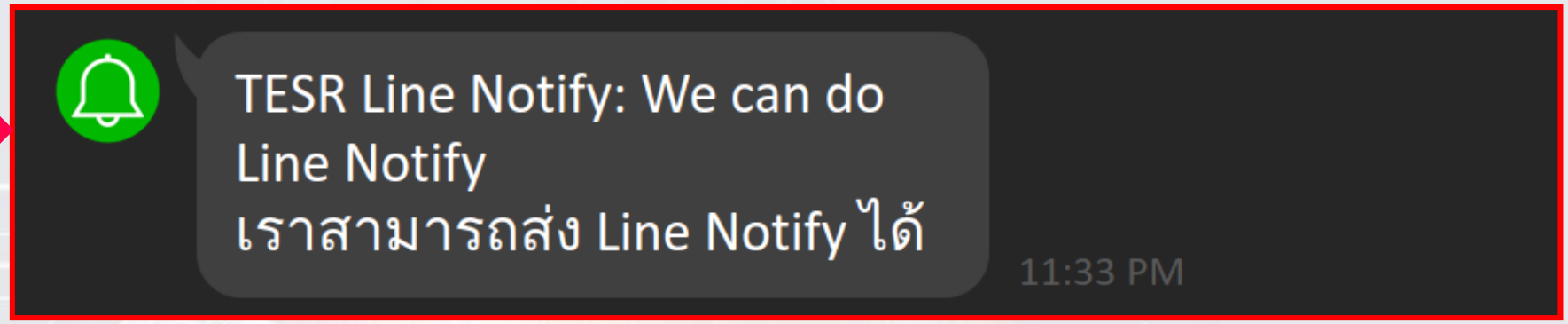
Line Notify: For message

```
#pip3 install requests
import requests

url = "https://notify-api.line.me/api/notify"
token = "WU14vzz83QiGQj04aBS9bC2wmnVGVUlDpzL29skobHk" #your Line Notify token
headers = {'Authorization':'Bearer ' + token}


msg = {
        “message”:”We can do Line Notify \n เราสามารถส่ง Line Notify ได้”
        }

res = requests.post(url, headers=headers , data = msg)
print(res.text)
```

Line Notify: For message

- **Result**





In code

```
msg = {
        “message”:”We can do Line Notify \n เราสามารถส่ง Line Notify ได้”
        }
```

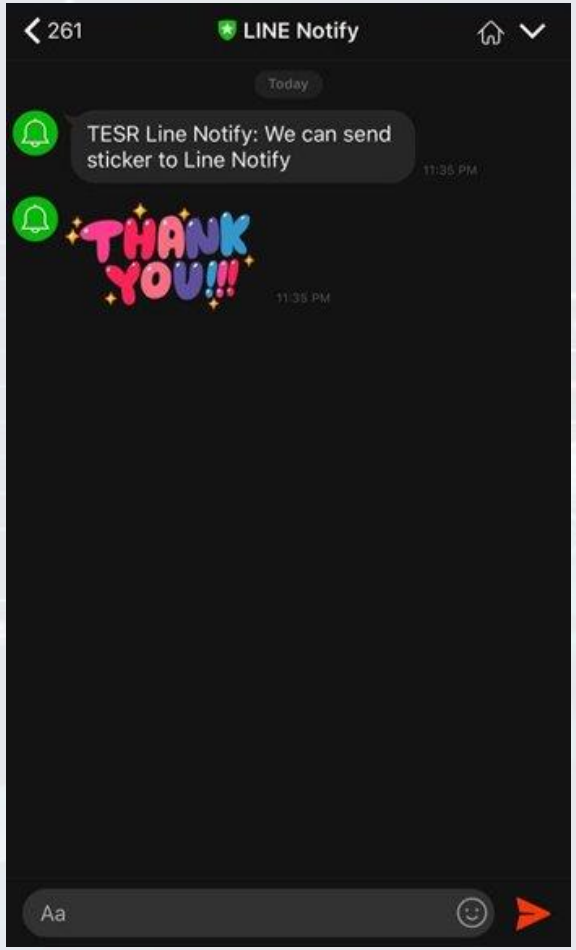
Thai Embedded

Line Notify: For sticker

```
#pip3 install requests
import requests

url = "https://notify-api.line.me/api/notify"
token = "WU14vzz83QiGQj04aBS9bC2wmnVGVUlDpzL29skobHk" #your Line Notify token
headers = {'Authorization':'Bearer ' + token}


msg = {
            “message”:”We can send sticker to Line Notify”,
              “stickerPackageId” :”2”, “stickerId" :”41”
        }

res = requests.post(url, headers=headers , data = msg)
print(res.text)
```

Line Notify: For sticker

- **Result**



Sticker ID list [Link]

STKPKGID : 1 (Moon James)

STKID	STKPKGID	STKVER	IMG_sample
1	1	100	
2	1	100	
3	1	100	
4	1	100	
5	1	100	
6	1	100	
7	1	100	
8	1	100	
9	1	100	
10	1	100	

STKID	STKPKGID	STKVER	IMG_sample
11	1	100	
12	1	100	
13	1	100	
14	1	100	
15	1	100	
16	1	100	
17	1	100	
21	1	100	
100	1	100	
101	1	100	

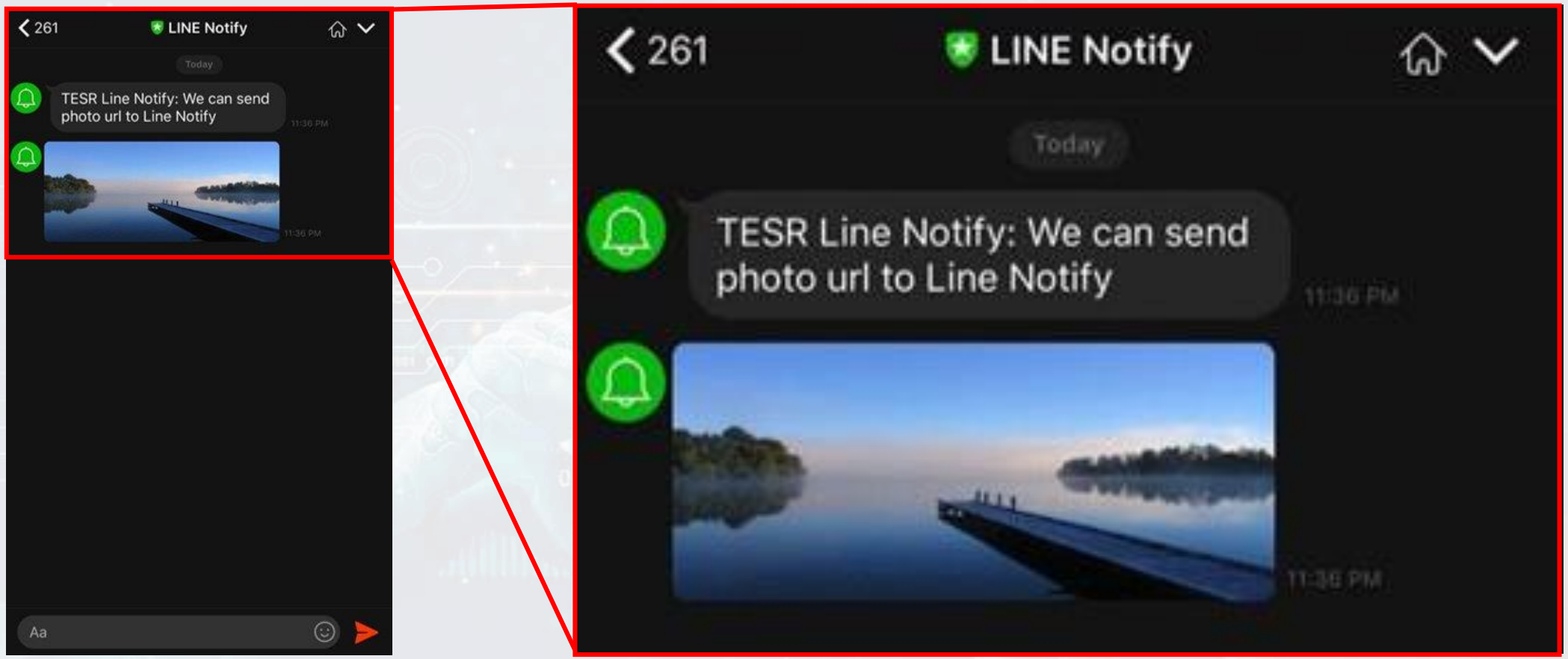
STKID	STKPKGID	STKVER	IMG_sample
102	1	100	
103	1	100	
104	1	100	
105	1	100	
106	1	100	
107	1	100	
108	1	100	
109	1	100	
110	1	100	
111	1	100	

Line Notify: For URL Photo

```
#pip3 install requests
import requests

url = "https://notify-api.line.me/api/notify"
token = "WU14vzz83QiGQj04aBS9bC2wmnVGVUlDpzL29skobHk" #your Line Notify token
headers = {'Authorization':'Bearer ' + token}

msg = {
        "message":"We can send photo url to Line Notify",
        "imageThumbnail":"https://jpeg.org/images/jpeg-home.jpg",
            "imageFullsize":"https://jpeg.org/images/jpeg-home.jpg"
        }

res = requests.post(url, headers=headers , data = msg)
print(res.text)
```

Line Notify: For URL Photo

- **Result**

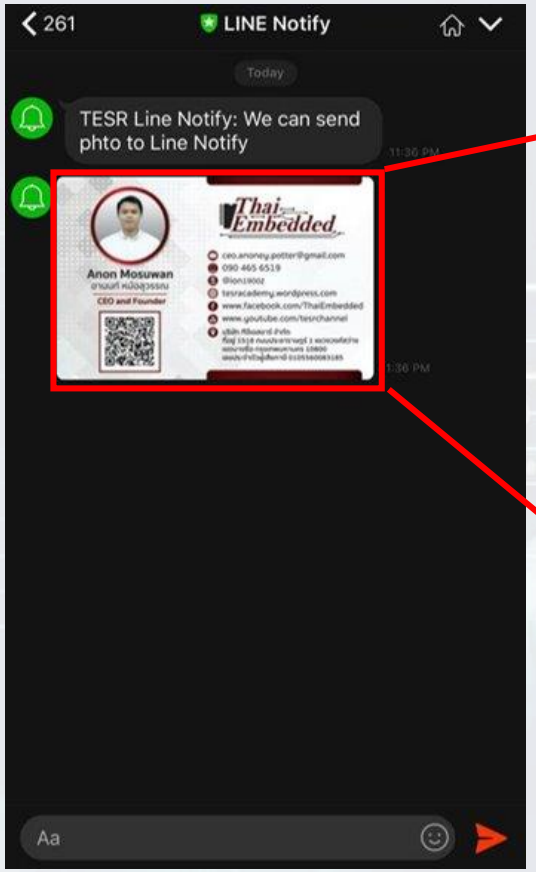


Line Notify: For Photo

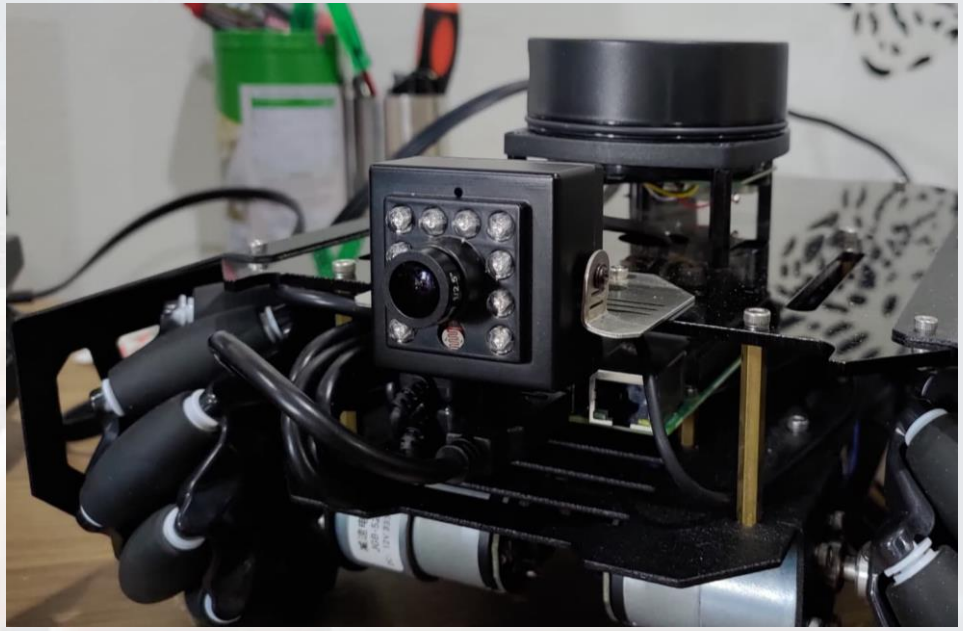
```
#pip3 install requests
import requests

url = "https://notify-api.line.me/api/notify"
token = "WU14vzz83QiGQj04aBS9bC2wmnVGVUlDpzL29skobHk" #your Line Notify token
headers = {'Authorization':'Bearer ' + token}

msg = {
        "message":(None,"We can send phto to Line Notify"),
        "imageFile": open("/home/pi/LineNotify/NameCard.png","r+b")
        }

res = requests.post(url, headers=headers , files=msg)
print(res.text)
```

Line Notify: For Photo

- **Result**



2D Camera on iron-X

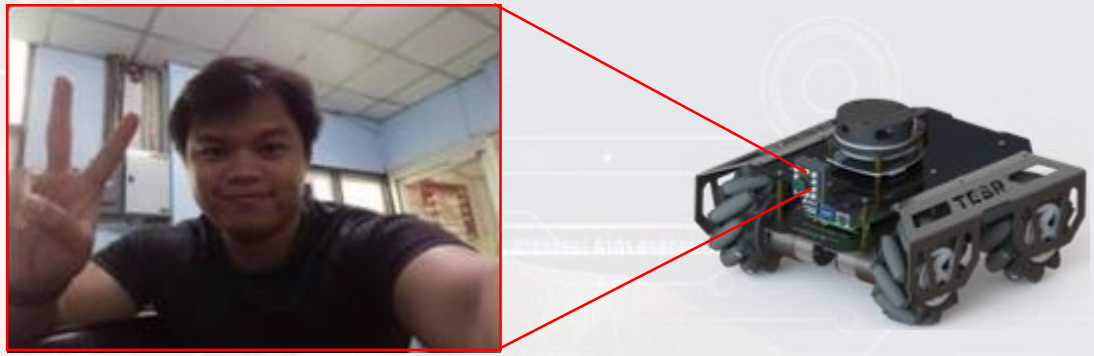


Line Notify: For 2D Camera

```
#pip3 install requests
import requests
from cv2 as cv
from time import sleep

vid = cv.VideoCapture(0)
ret,frame = vid.read()
img = cv.imwrite("/home/pi/Desktop/image.jpg",frame)
sleep(1.0)

url = "https://notify-api.line.me/api/notify"
token = "WU14vzz83QiGQj04aBS9bC2wmnVGVUlDpzL29skobHk" #your Line Notify token
headers = {'Authorization':'Bearer ' + token}

msg = {
        "message":(None,"We can send photo to Line Notify"),
        'imageFile':open("/home/pi/Desktop/image.jpg,"r+b")
            }

res = requests.post(url, headers=headers ,files=msg)
print(res.text)
```

Line Notify: For 2D Camera

- **Result**



- 2D Camera will capture the image. it will save as image file and then send to the LINE Notify.

Line Notify: Message from ROS2

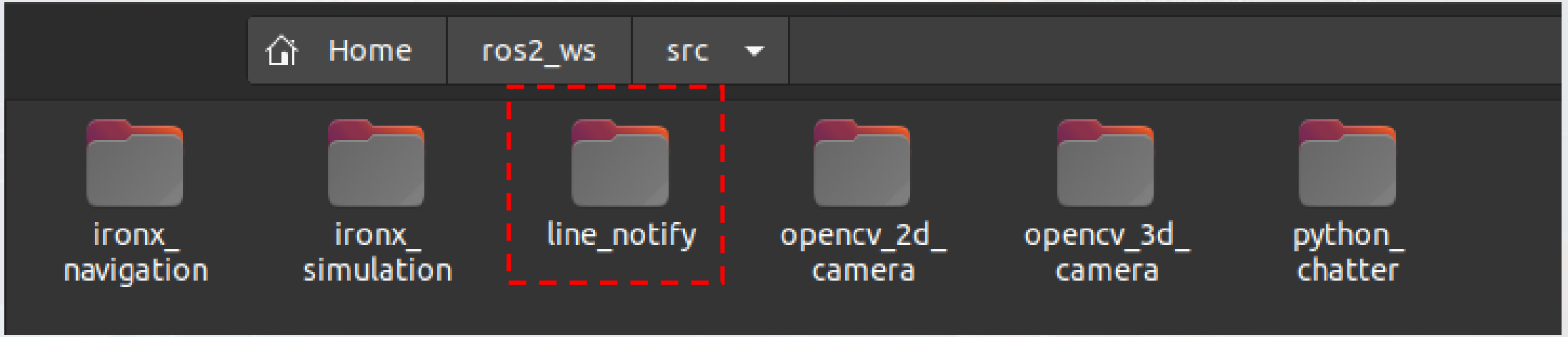
Line Notify: Message from ROS2

- **Download ros2 workspace source code: Link**

Name	Owner	Last modified	File size
line_notify.zip	me	3:06 PM me	9 KB

- Extract and move file to ros2 workspace.

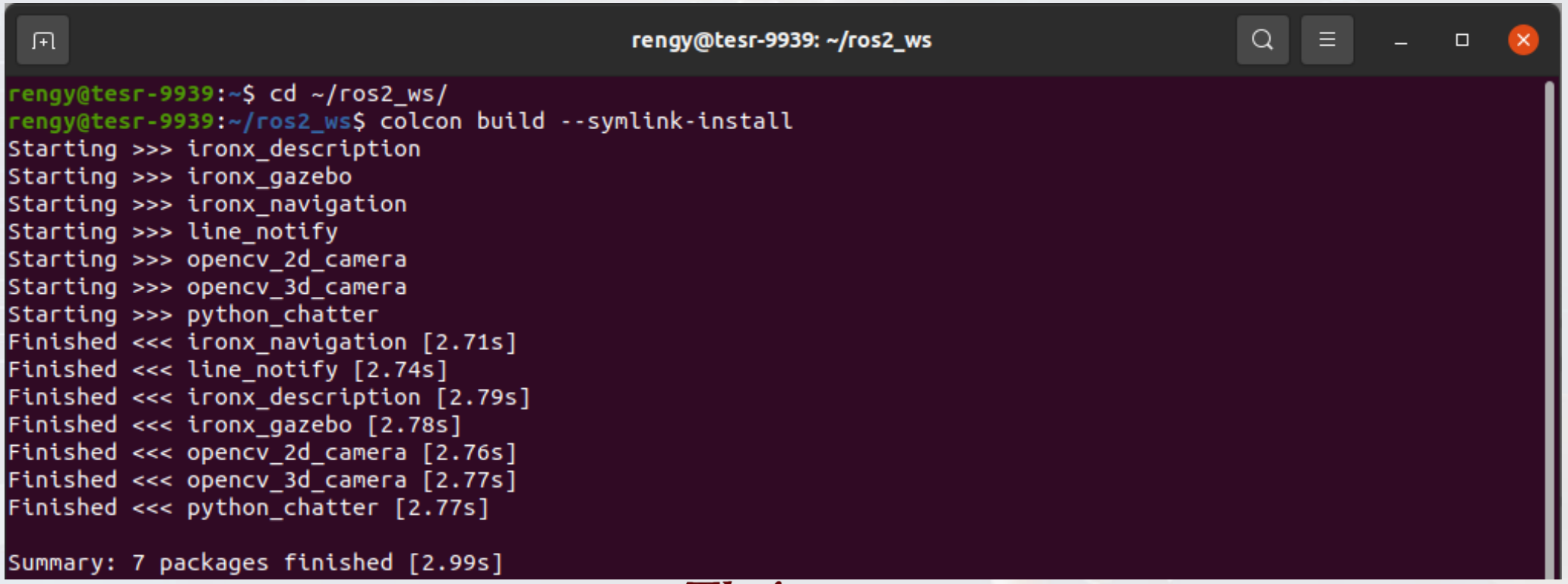
  (For this case, ros2 workspace is ~/ros2_ws/src)



Line Notify: Message from ROS2

- **Change the directory to ros2_ws and build the workspace by using:**

```
cd ~/ros2_ws
colcon build --symlink-install
```



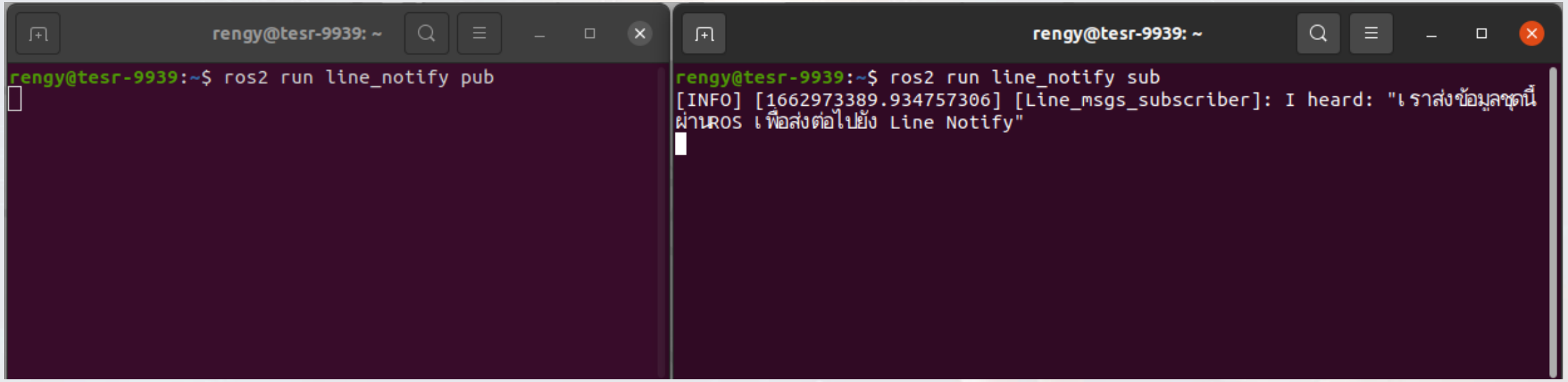
Line Notify: Message from ROS2

- **And then, we start with publish the message using:**

```
ros2 run line_notify pub
```

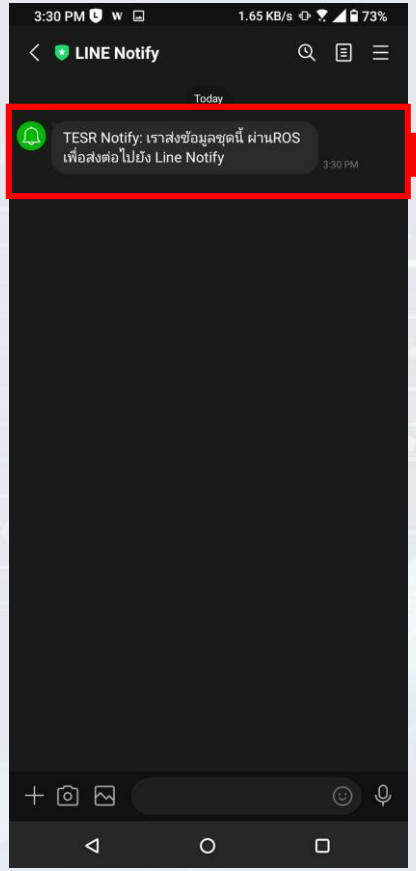
- **And run subscribe the data from pub on new terminal using:**

```
ros2 run line_notify sub
```



Line Notify: Message from ROS2

- **Result**



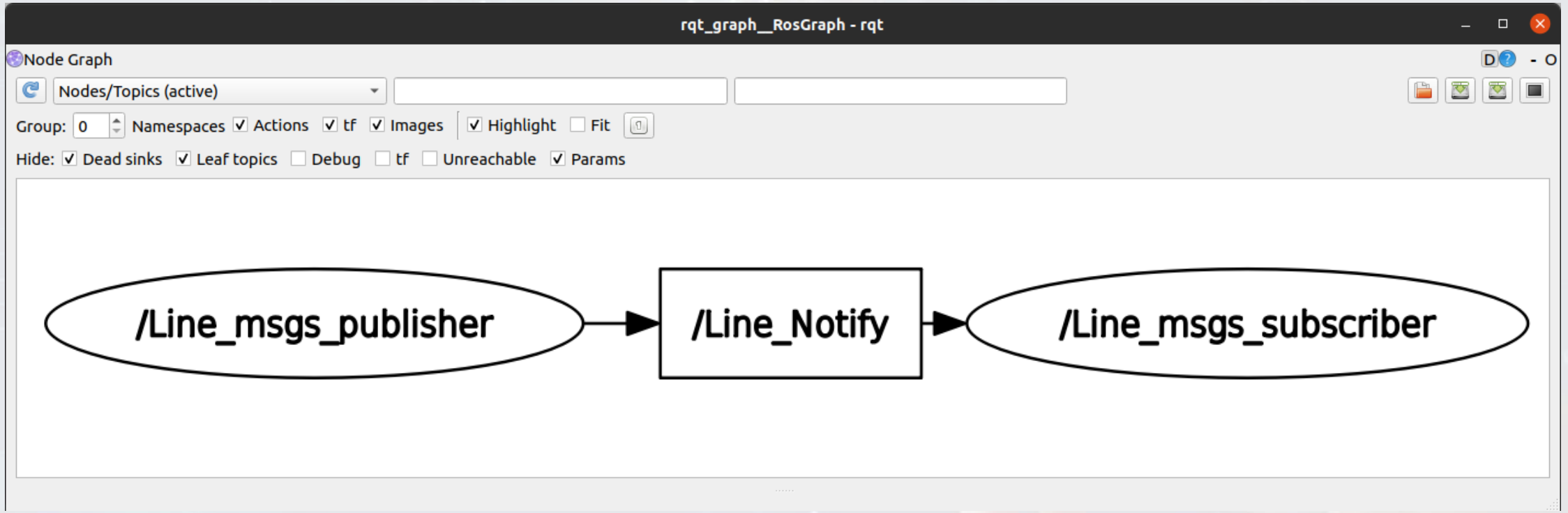
In code

```python
def timer_callback(self):
    msg = String()
    msg.data = "เราส่งข้อมูลชุดนี้ ผ่านROS เพื่อส่งต่อไปยัง Line Notify"
    self.publishers_.publish(msg)
```

RosGraph for Line Notify

- You can the **RosGraph** of Line Notify by using:

```
rqt_graph
```



Contact Us

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