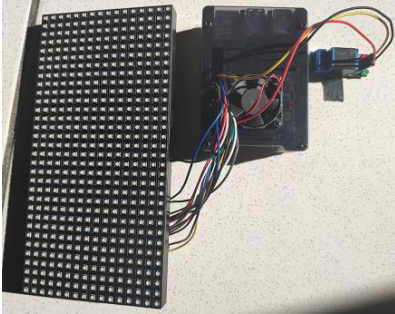


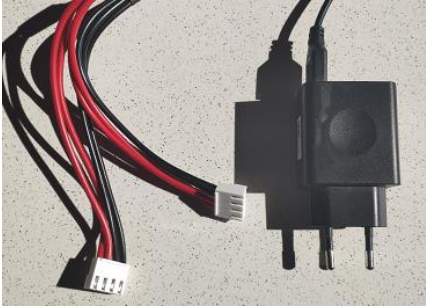


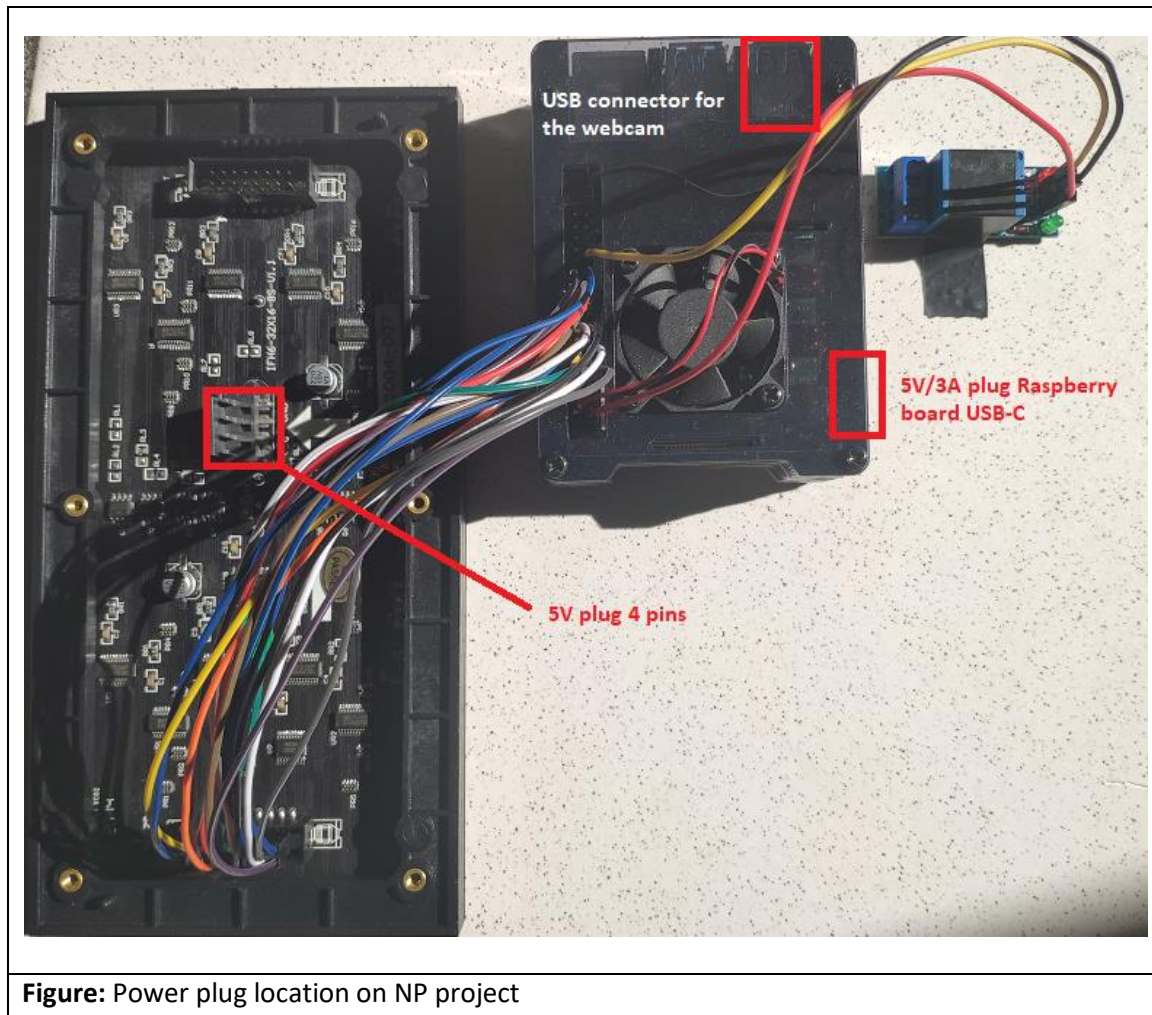
NP User manual

Preparing the hardware

To use the system you will need the following:

<div data-bbox="309 618 328 645" data-label="Text">0</div> 	<div data-bbox="1238 618 1257 645" data-label="Text">1</div>  <div data-bbox="317 1003 336 1030" data-label="Text">2</div>  <div data-bbox="1230 969 1249 996" data-label="Text">3</div> 
<div data-bbox="301 1200 705 1232" data-label="Text">0- NP project after wiring process</div>	<div data-bbox="783 1167 1126 1265" data-label="List-Group"><ul style="list-style-type: none">1- webcam USB2- Power plug / USB C 3A/5V3- Power plug / USB 2A/5V</div>
<div data-bbox="205 1276 614 1308" data-label="Caption">Figure : All of the WBTC hardware</div>	

Powering the system on



*"That's all you need to do to **power ON** the system!"*

The system will take approximately **30 seconds** to be ready.

Connecting to the NodeRED dashboard

If the board is connected to the same local network as your phone or PC, use its IP address to access the NodeRED dashboard at the following URL. Of course, replace **NP_IP** by the ip address of the board.

For the NodeRED dashboard UI interface:

[http://\[NP_IP\]:1880/ui](http://[NP_IP]:1880/ui)

For the NodeRED flows administration interface:

[http://\[NP_IP\]:1880](http://[NP_IP]:1880)

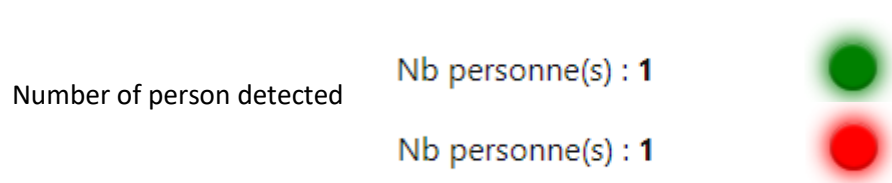
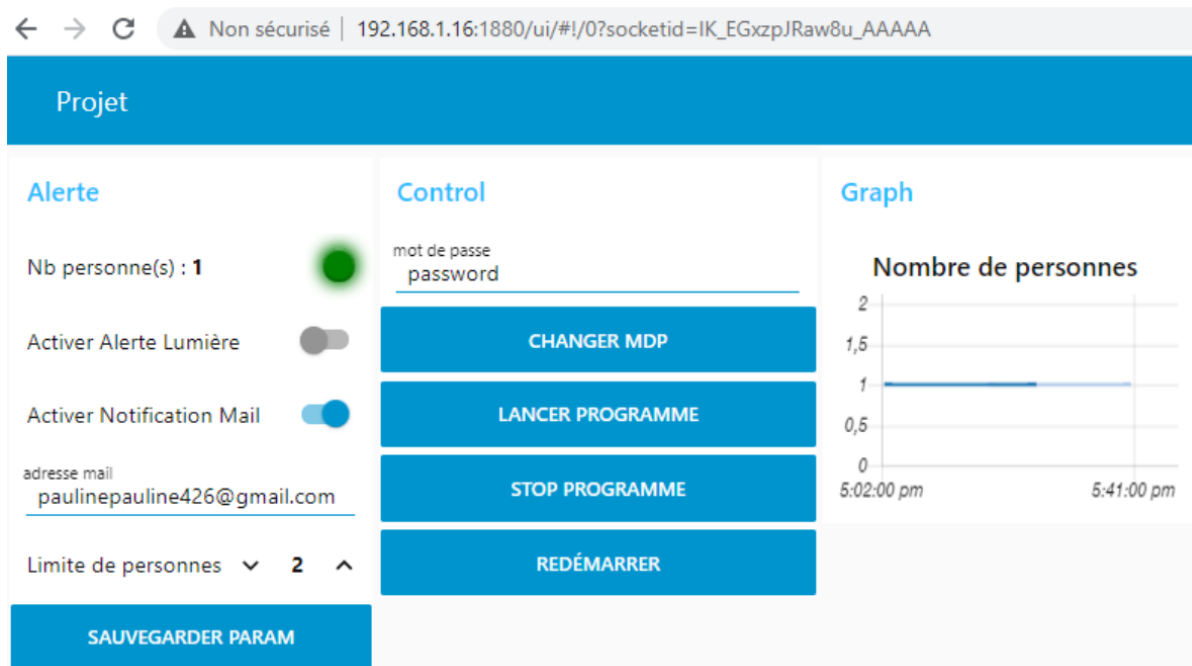
Powering the system off

To power off the system you have several options. **You should avoid disconnecting the power from the Raspberry Pi 4 board without having shut down the OS gracefully.** In fact you risk an SDCARD corruption which means the system won't boot again.

To shut down the system gracefully you have 2 possibilities:

1. **Pressing the poweroff button** and when the system is off, pulling the power plug.
2. Entering the **sudo poweroff** command in the serial terminal or SSH console.

NodeRED dashboard IHM



The **red or green** light is based on the limit of person per/location and it is a representation of the relay state.

I have set the limit to 0

Limite de personnes ▼ 0 ▲

Light goes red to indicate that the limit is reached.

You can enable or not the relay/light alert by switching the button. Same thing with the alert by mail.

Activer Alerte Lumière

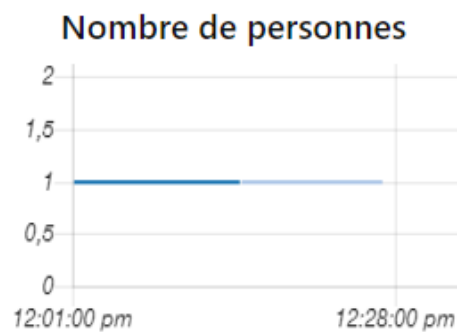
Activer Notification Mail

You have some buttons that permit you to Restart the Raspberry board in case of malfunction / Start/Stop the project. They will turn off/on all the needed programs



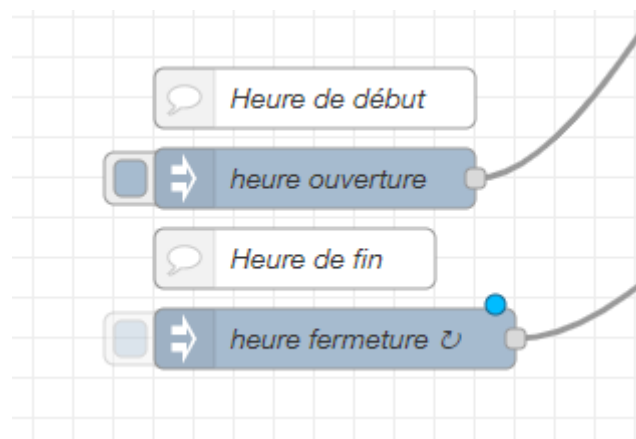
You can have some information about the number of person in the location at a specific time.

Graph



Automatic Start/End time configuration

Connect to for this part: [http://\[NP_IP\]:1880](http://[NP_IP]:1880)



flow nodes

To perform this configuration, you need to find this both nodes.

- double-click on it

Edit inject node

Delete Cancel Done

Properties

Name

msg. payload = timestamp

+ add

Repeat at a specific time

Times at 22:00

Days on ☒ Monday ☒ Tuesday ☒ Wednesday
☒ Thursday ☒ Friday ☐ Saturday
☐ Sunday

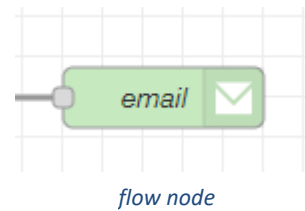
☐ Enabled

you just need to change information about times/days on both nodes that you need and redeploy the flow.



Mail configuration

Mail alert are sent by this address: projet.personne.polytech@gmail.com

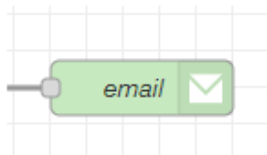


A Google login form for "projet_personne polytech". The Google logo is at the top. Below it, the text "projet_personne polytech" is displayed. A red rectangle highlights the email selection dropdown, which shows a purple circle with a white "p" and the email address "projet.personne.polytech@gmail.com" with a downward arrow. Below this is a password field with the placeholder text "Saisissez votre mot de passe" and a red rectangle highlighting the text "projet_personne37". At the bottom, there is a blue checkmark icon and the text "Afficher le mot de passe".

To configure where mails are sent to, you just must type your mail address on the “adresse mail” text field and save the configuration

adresse mail
paulinepauline426@gmail.com

SAUVEGARDER PARAM



Edit email node

Delete

Cancel

Done

Properties



To

email@address.com

Server

smtp.gmail.com

Port

465

☒ Use secure connection.

Userid

projet.personne.polytech@gmail.com

Password

.....

Use TLS?



Name

Name