

Manual for running wiced sense

e-Yantra Team

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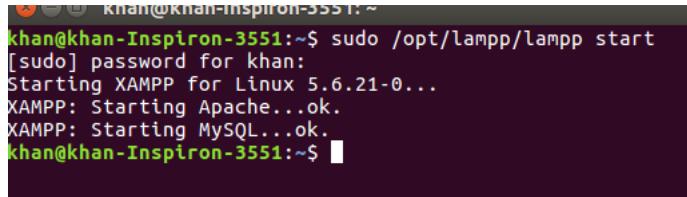
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1 How to use wiced sense GUI ?

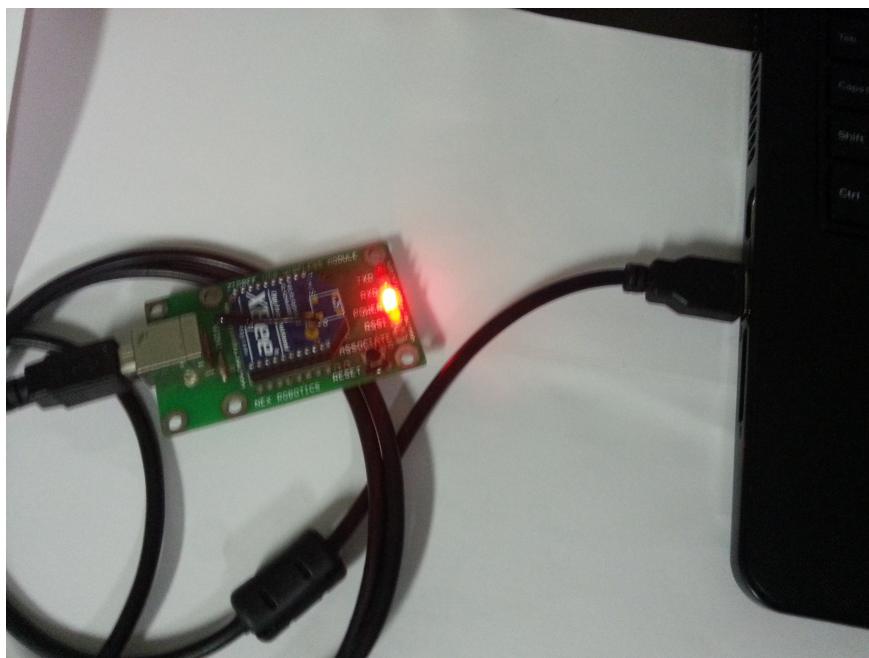
1.1 Sensor Data display Page

- Open terminal and start lampp local server.

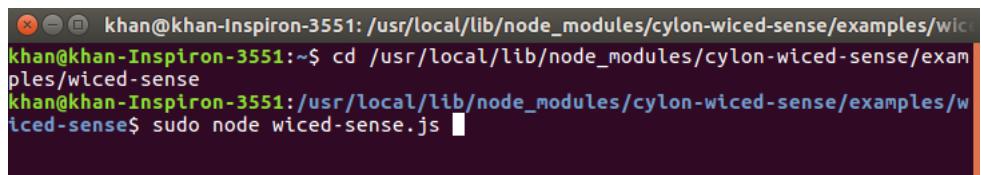


```
khan@khan-Inspiron-3551:~$ sudo /opt/lampp/lampp start
[sudo] password for khan:
Starting XAMPP for Linux 5.6.21-0...
XAMPP: Starting Apache...ok.
XAMPP: Starting MySQL...ok.
khan@khan-Inspiron-3551:~$
```

- Open Sensor.html page in website.
- Insert USB (zigbee) into the USB slot of local machine.



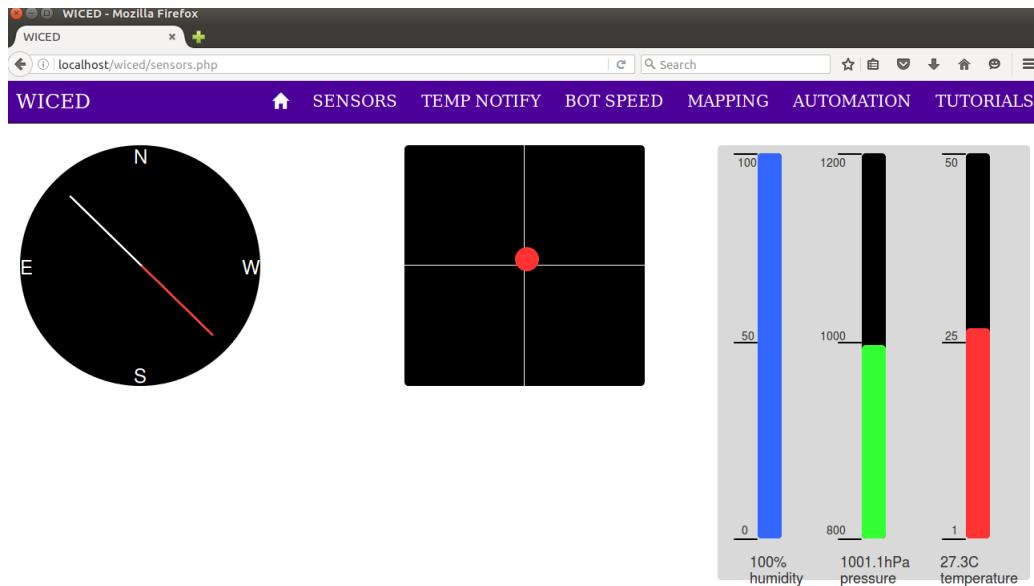
- Turn ON bluetooth and run wiced.js file in terminal



```
khan@khan-Inspiron-3551:/usr/local/lib/node_modules/cylon-wiced-sense/examples/wiced-sense$ cd /usr/local/lib/node_modules/cylon-wiced-sense/examples/wiced-sense
khan@khan-Inspiron-3551:/usr/local/lib/node_modules/cylon-wiced-sense/examples/wiced-sense$ sudo node wiced-sense.js
```

- As data arrives on terminal the data will be displayed on the page.

- Compass and acceleration reading will be displayed immediately according to the sensor data. But data of humidity, temperature, pressure are displayed after some delay of 2-3 sec.

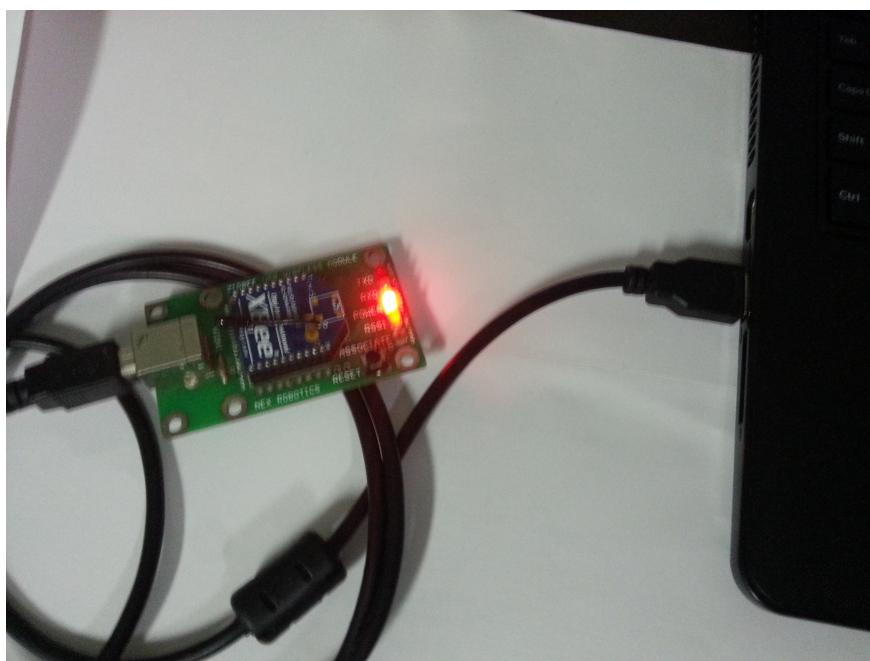


1.2 How to use temperature notifier ?

- Open terminal and start lampp local server.

```
khan@khan-Inspiron-3551:~$ sudo /opt/lampp/lampp start
[sudo] password for khan:
Starting XAMPP for Linux 5.6.21-0...
XAMPP: Starting Apache...ok.
XAMPP: Starting MySQL...ok.
khan@khan-Inspiron-3551:~$
```

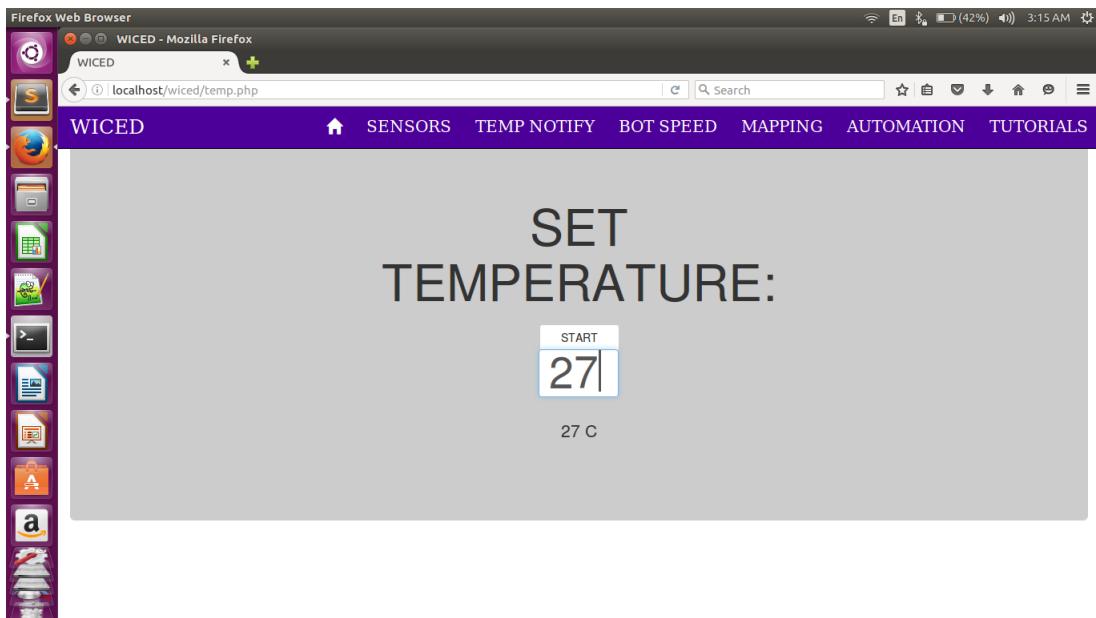
- Open temp.html page in website.
- Insert USB (zigbee) into the USB slot of local machine.



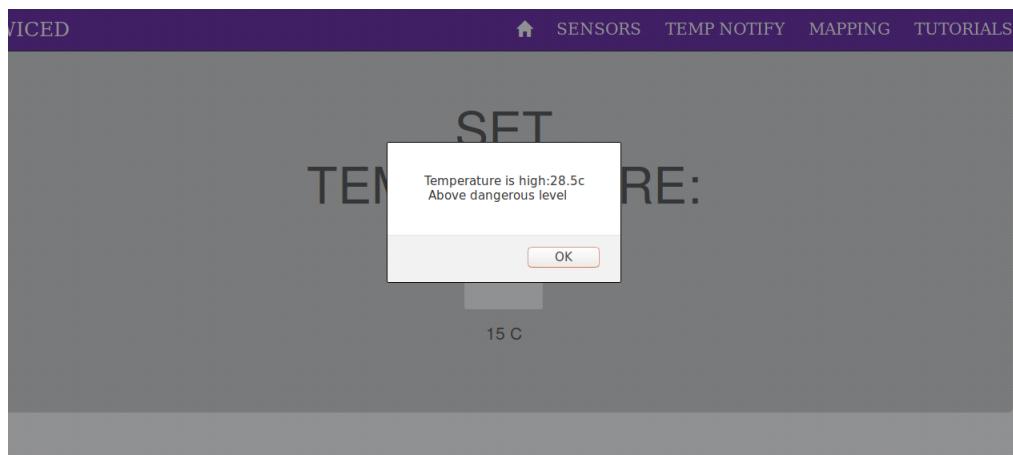
- Turn ON bluetooth and run wiced.js file in terminal

```
khan@khan-Inspiron-3551:/usr/local/lib/node_modules/cylon-wiced-sense/examples/wic
khan@khan-Inspiron-3551:~$ cd /usr/local/lib/node_modules/cylon-wiced-sense/exam
ples/wiced-sense
khan@khan-Inspiron-3551:/usr/local/lib/node_modules/cylon-wiced-sense/examples/w
iced-sense$ sudo node wiced-sense.js
```

- Set temperature of which you need to be notified.



- Selected temperature will be displayed immediately at the bottom of form.
- As th current temperature/Wiced sense temperature exceeds above fixed temperature , then a popup alert will appear to notify the user.

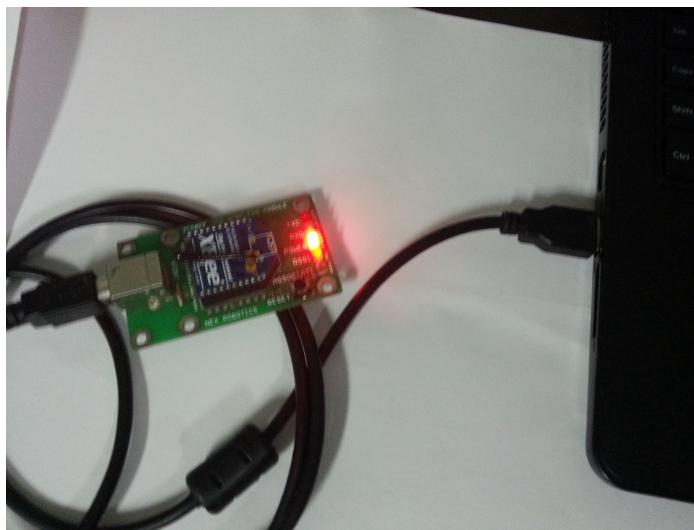


1.3 How to map the path of robot ?

- Open terminal and start lampp local server.

```
khan@khan-Inspiron-3551:~$ sudo /opt/lampp/lampp start
[sudo] password for khan:
Starting XAMPP for Linux 5.6.21-0...
XAMPP: Starting Apache...ok.
XAMPP: Starting MySQL...ok.
khan@khan-Inspiron-3551:~$
```

- Open mapping.html page in website.
- Insert USB (zigbee) into the USB slot of local machine.



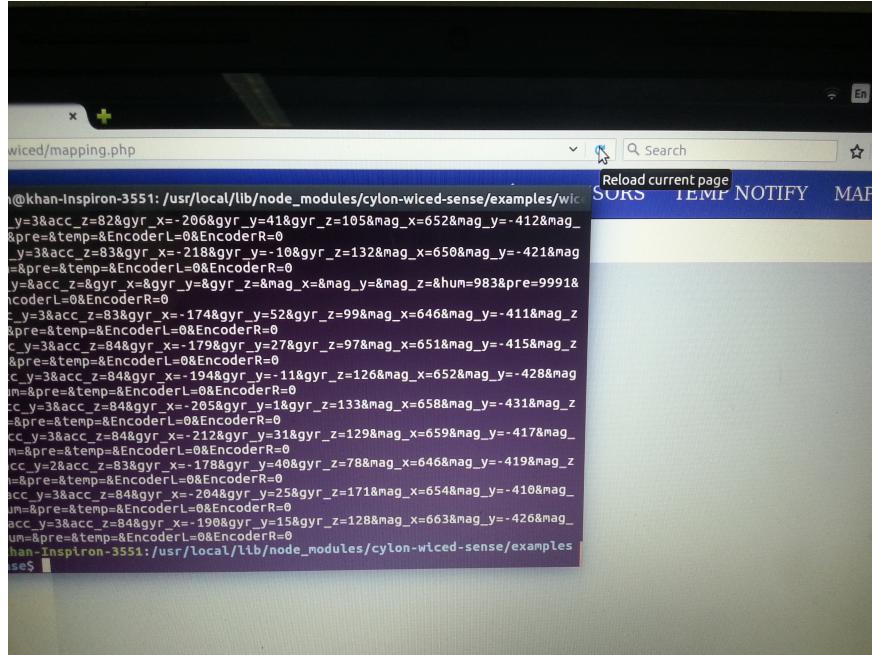
- Place wiced sense on bot where keychane part of wiced must be facing forward .
- Turn ON system bluetooth and keep the bot at the start position of the path or area to be mapped.



- Turn WICED ON by pressing the app button.
- Do not move the bot after placing at start position.
- Run wiced-sense.js file and wait for data to arrive.

```
khan@khan-Inspiron-3551:~$ cd /usr/local/lib/node_modules/cylon-wiced-sense/examples/wiced-sense
khan@khan-Inspiron-3551:/usr/local/lib/node_modules/cylon-wiced-sense/examples/wiced-sense$ sudo node wiced-sense.js
[sudo] password for khan:
DEPRECATION: Please use `require('serialport')` instead of `require('serialport').SerialPort`
2016-07-22T07:46:56.358Z : [Robot 1] - Starting connections.
2016-07-22T07:46:56.361Z : [Robot 1] - Starting connection 'bluetooth'.
2016-07-22T07:47:01.962Z : [Robot 1] - Starting devices.
2016-07-22T07:47:01.963Z : [Robot 1] - Starting device 'battery'.
2016-07-22T07:47:01.964Z : [Robot 1] - Starting device 'deviceInfo'.
2016-07-22T07:47:01.964Z : [Robot 1] - Starting device 'generic'.
2016-07-22T07:47:01.964Z : [Robot 1] - Starting device 'wiced'.
2016-07-22T07:47:01.965Z : [Robot 1] - Working.
acc_x=0&acc_y=5&acc_z=84&gyr_x=-142&gyr_y=35&gyr_z=66&mag_x=677&mag_y=113&mag_z=-1095&hum=&pre=&temp=&EncoderL=0&EncoderR=0
acc_x=0&acc_y=5&acc_z=83&gyr_x=-138&gyr_y=46&gyr_z=72&mag_x=683&mag_y=108&mag_z=-1085&hum=&pre=&temp=&EncoderL=0&EncoderR=0
acc_x=0&acc_y=5&acc_z=83&gyr_x=-120&gyr_y=-3&gyr_z=-28&mag_x=677&mag_y=113&mag_z=-1089&hum=&pre=&temp=&EncoderL=0&EncoderR=0
acc_x=0&acc_y=5&acc_z=83&gyr_x=-116&gyr_y=83&gyr_z=29&mag_x=691&mag_y=114&mag_z=-1082&hum=&pre=&temp=&EncoderL=0&EncoderR=0
acc_x=0&acc_v=4&acc_z=83&qvr_x=-155&qvr_y=41&qvr_z=538&mag_x=672&mag_y=124&mag_z=-
```

- AS the data arrives on terminal, immediately refresh mapping.html page.



```

n@khan-Inspiron-3551: /usr/local/lib/node_modules/cylon-wiced-sense/examples/wiced/mapping.php
y=3&acc_z=82&gyr_x=-206&gyr_y=418&gyr_z=105&mag_x=652&mag_y=-412&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
_y=3&acc_z=83&gyr_x=-218&gyr_y=-10&gyr_z=132&mag_x=650&mag_y=-421&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
y=&acc_z=&gyr_x=&gyr_y=&gyr_z=&mag_x=&mag_y=&mag_z=&hum=983&pre=9991&
Encoderl=0&EncoderR=0
t_y=3&acc_z=83&gyr_x=-174&gyr_y=528&gyr_z=99&mag_x=646&mag_y=-411&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
c_y=3&acc_z=84&gyr_x=-178&gyr_y=-27&gyr_z=97&mag_x=651&mag_y=-415&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
m_y=3&acc_z=84&gyr_x=-194&gyr_y=-11&gyr_z=126&mag_x=652&mag_y=-428&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
cc_y=3&acc_z=84&gyr_x=-205&gyr_y=18&gyr_z=133&mag_x=658&mag_y=-431&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
cc_y=3&acc_z=84&gyr_x=-212&gyr_y=31&gyr_z=129&mag_x=659&mag_y=-417&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
cc_y=2&acc_z=83&gyr_x=-178&gyr_y=40&gyr_z=78&mag_x=646&mag_y=-419&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
acc_y=3&acc_z=84&gyr_x=-204&gyr_y=25&gyr_z=171&mag_x=654&mag_y=-410&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
acc_y=3&acc_z=84&gyr_x=-190&gyr_y=15&gyr_z=128&mag_x=663&mag_y=-426&mag_z=0
&pre=&temp=&Encoderl=0&EncoderR=0
n@Inspiron-3551:/usr/local/lib/node_modules/cylon-wiced-sense/examples
se$
```

- Turn on bot to move forward. As the bot moves , path is drawn accordingly.
- After mapping is done inorder to terminate the process enter Cltr+C in terminal. Hence process will be terminated