ICP13

Edit New Page

Jump to bottom

MonkeyCanCode edited this page 2 days ago · 5 revisions

Sourece

Video

Introduction

For ICP 13, we learned how to use NodeMCU. Unlike Arduino, we can setup service on NodeMCU and NodeMCU has build-in WIFI module.

Objectives

The objective for this ICP is for us to learn how t ouse NodeMCU and build a website on it that can interact with LED Light and other sensor.

Approaches/Methods

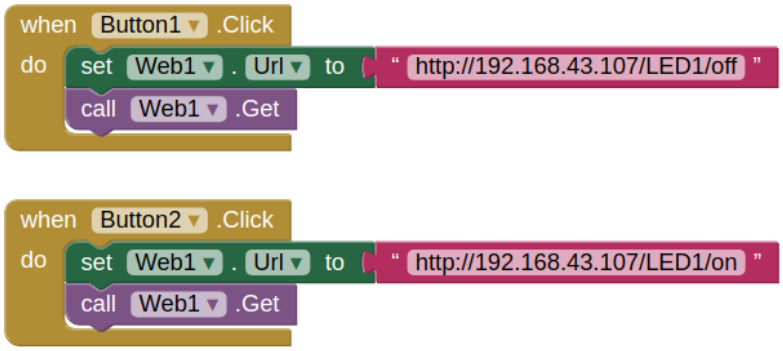
1. Load new board on Arduino IDE
2. Construct circuit board with NodeMCU, LED Light, and sensor
3. Write code for required functionalities
4. Create Android APP with MIT APP Inventor to interact with LED light via NodeMCU
5. Demo

Workflow

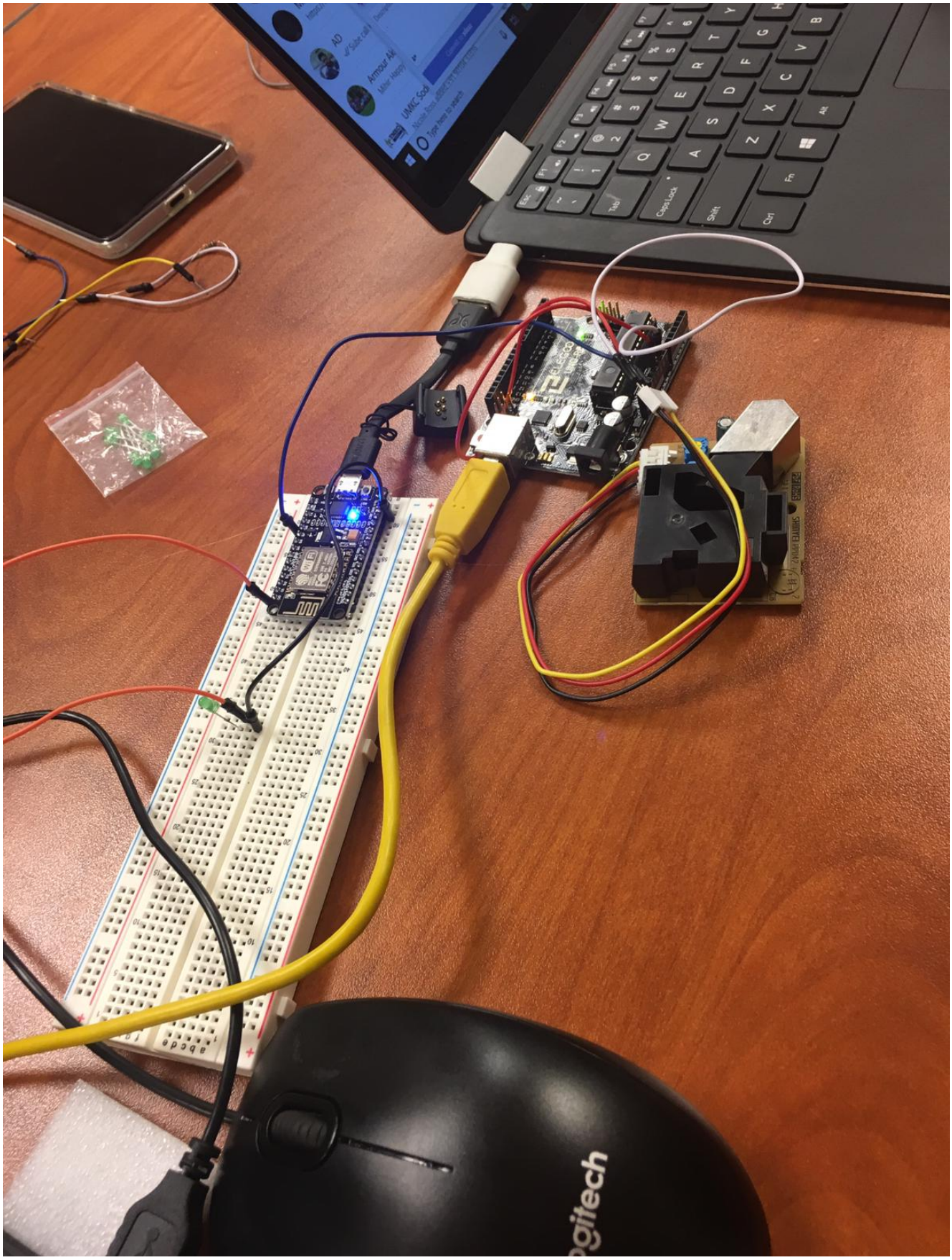
1. User can turn on/off LED light from the web directly (with different URLs or click on the button)
2. User can turn on/off LED light from the Mobile APP with button click
3. The web will show the data collected from dust sensor

Diagram

Viewer




Check to see Preview on Tablet size.
9:48
Screen1
Off
On



Parameters

None

Evaluation & Discussion

NodeMCU is pretty interesting and powerful. I would like to explore more on what I can do with this device.

Conclusion

For this ICP, I got to play with NodeMCU. It is pretty interesting.

+ Add a custom footer

▼ Pages 18

Find a Page…

Home
ICP1
ICP11 and ICP12
ICP13
ICP14
ICP2
ICP3
ICP4
ICP5
ICP6
ICP7
ICP8
ICP9
Lab1
Lab2

Show 3 more pages

Show 3 more pages...

+ Add a custom sidebar

Clone this wiki locally

```
https://github.com/MonkeyCanCode/IOT.wiki.git
```