**Aim:** Here we Connect **NodeMCU as a client Mode** and the Mobile (or Wi-Fi Laptop ) Hotspot as a Station Mode. Also to display the image grabbed from camera connected to the NodeMCU on Mobile/Laptop browser.

Wiring diagram to connect ArduCAM to ESP8266-12E

ArduCAM mini -> ESP8266-12E

CS -> D0

MOSI -> D7

MISC -> D6

SCK -> D5

GND -> GND

VCC -> 3V3

SDA -> D2

SCL -> D1

**Installation of ESP8266 and Arducam Camera library:**

1. Install : arduino-1.8.5-windows.exe
2. File -> Preferences -> Settings-> Additional Boards URL-> type the following -> OK

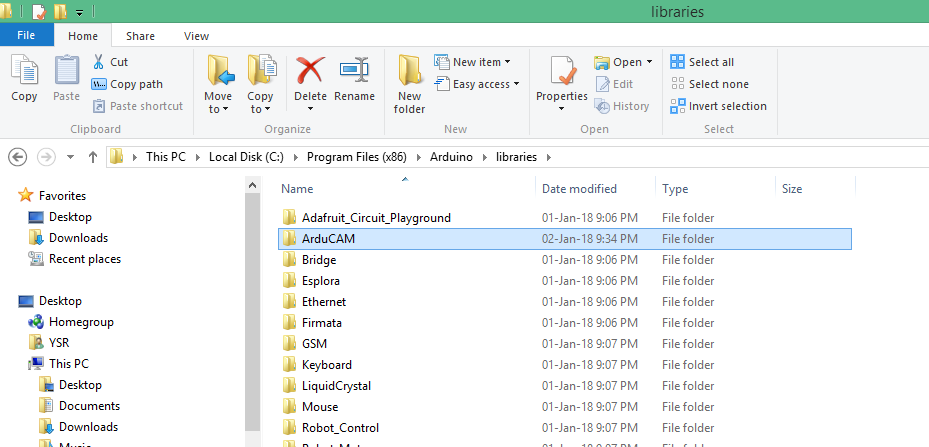
<http://arduino.esp8266.com/versions/2.3.0/package_esp8266com_index.json>

1. Tools -> Board -> BoardManager -> Select ESP8266 -> Install {Internet is required}
2. From Camera\_Library copy the folder **ArduCAM** and paste it at

C:\Program Files (x86)\Arduino\libraries

Or

C:\Program Files\Arduino\libraries



5. Next open from folder ArduCam\_ESP8266\_FileCapture\_SM “ArduCam\_ESP8266\_FileCapture\_SM.ino” in Arduino IDE

6. Create a HotSpot on your Mobile Phone and in the code change

Change const char \*ssid = “Your Hotspot Name”

Const char \*password = “Your Hotspot Password”

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//Station mode you should put your ssid and password

const char \*ssid = "ysrao"; // Put your SSID here

const char \*password = "12345678"; // Put your PASSWORD here

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7. Tools -> Select Port

8. Tools-> Select the Board-> NodeMCU1.0 (ESP-12E Module)

9. Compile and Load the Program

10. Open Tools-> Serial Monitor (baudrate 15200)-> Reset Node Mcu : Server IP Address mentioned

11. You will notice in Mobile Hotspot “ESP\_5E3489” is connected similarly Laptop Wi-Fi “ysrao” is paired

12. On any phone browser (or Wi-Fi enabled Laptop) type the IP address to see the image

13. Use low resolution or see the stored for better display

14. Note : Make Sure in case of Laptop both Laptop and NodeMCU are paired to the Same Wi-Fi (Mobile/Local Router)