

UNIVERSITY OF SCIENCE - VNUHCM

Faculty of Information Technology

INTERNET OF THINGS

3.7

WIFI MANAGER

AutoConnectAP

WiFiManager

Configure WiFi

Configure WiFi (No Scan)

WIFI MANAGER

WHAT IS WifiManager?

AutoConnectAP

WiFiManager

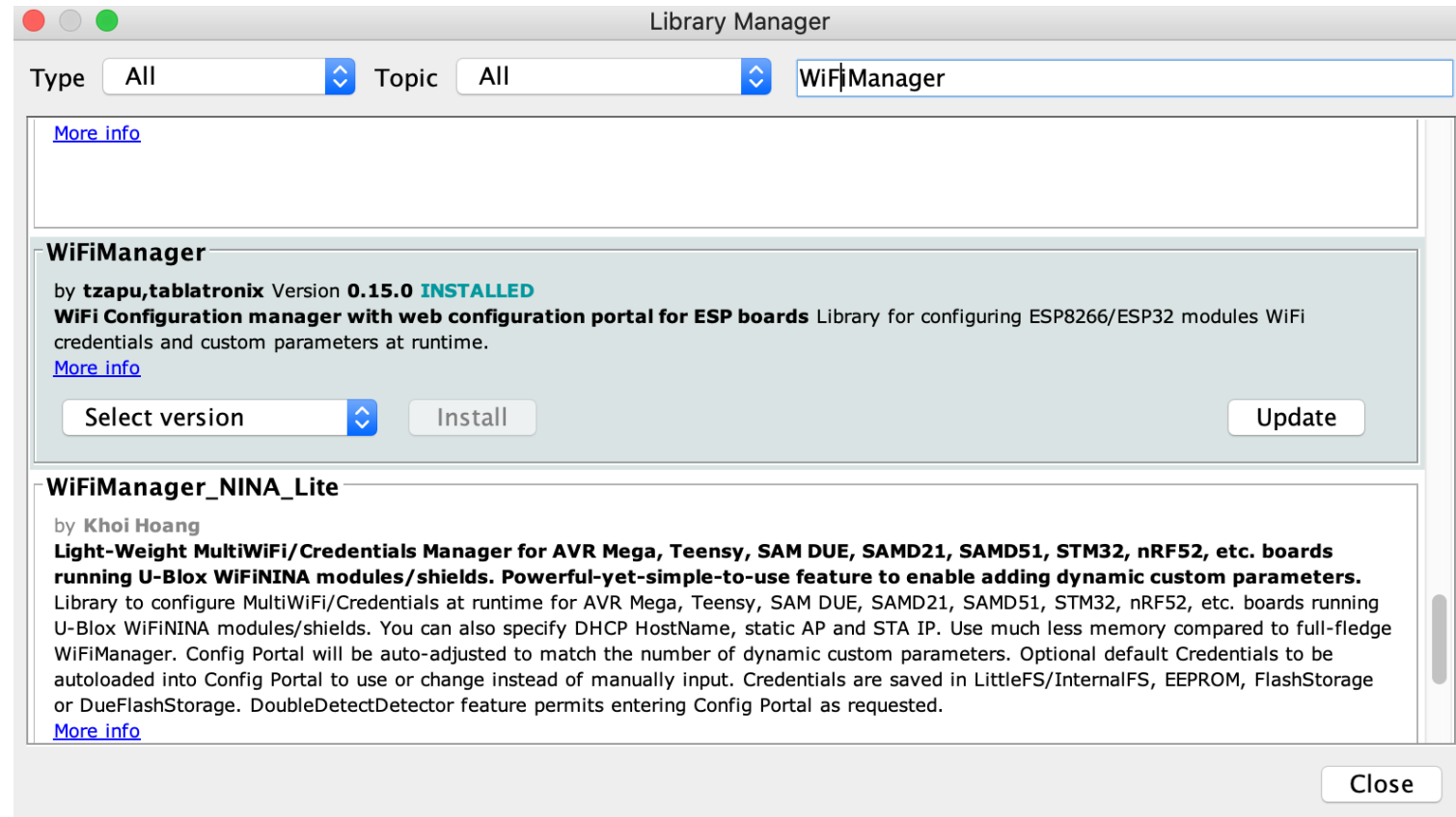
Configure WiFi

Configure WiFi (No Scan)

- **WifiManager** is a library that support ESP8266 connecting to the other wireless networks using Web UI.

INSTALL LIBRARY

- Go to Sketch > Include Library > Manage Libraries
- Search “WiFiManager”
- Install WiFiManager by tzapu



```
#include "WiFiManager.h"

void setup() {
  Serial.begin(9600);

  //WiFiManager
  WiFiManager wifiManager;

  if(!wifiManager.autoConnect("My Accesspoint")) {
    Serial.println("failed to connect and hit timeout");
    ESP.reset();
    delay(1000);
  }

  //if you get here you have connected to the WiFi
  Serial.println("connected...yeey :)");
}
```

The ESP8266 attempts to bind to a previously established wifi network. In case of a failure, the ESP8266 switches to Access point mode.

AutoConnectAP

- Connect to the ESP8266's access point with your phone or laptop.
 - Your phone / laptop will automatically redirect to the Wifi Config Web UI.
- (if the system does not automatically redirect, type “**192.168.4.1**” into web browser)

Set callback function

```
//WiFiManager  
WiFiManager wifiManager;  
wifiManager.setAPCallback(configModeCallback);
```

Implement the callback function

```
void configModeCallback (WiFiManager *myWiFiManager) {  
    Serial.println("Entered config mode");  
    //Get Access point IP  
    Serial.println(WiFi.softAPIP());  
    //get SSID  
    Serial.println(myWiFiManager->getConfigPortalSSID());  
}
```

If you want to inform users about the status of ESP8266, for example show on LCD
