Adding MQTT Setting in the Interface

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1. In order to add the server information, we need to modify the library WiFiManager.
2. These are the modifications in WiFiManager.h

1) Line 28:

const char HTTP\_PORTAL\_OPTIONS[] PROGMEM =

"<form action=\"/wifi\" method=\"get\"><button>Configure WiFi</button></form><br/>

<form action=\"/0wifi\" method=\"get\"><button>Configure WiFi (No Scan)</button></form><br/>

<form action=\"/0MQTT\" method=\"get\"><button>MQTT SERVER SETTING</button></form><br/>

<form action=\"/i\" method=\"get\"><button>Info</button></form><br/>

<form action=\"/r\" method=\"post\"><button>Reset</button></form>";

Description: Add a button with the string “MQTT SERVER SETTING” to the interface to ask the user to input the server information.

2) Line 32:

const char HTTP\_FORM\_MQTT[] PROGMEM =

"<form method='get' action='MQTTsave'>

<input id='s' name='s' length=32 placeholder='MQTT SERVER'><br/>

<input id='po' name='po' length=64 placeholder='MQTT PORT'><br/>

<input id='u' name='u' length=32 placeholder='MQTT USER'><br/>

<input id='p' name='p' length=64 type='password' placeholder='MQTT PASSWORD'><br/>";

Description: Add 4 fields (MQTT SERVER, MQTT PORT, MQTT USER, MQTT PASSWORD) and a button (MQTT save) to accept information from the user.

3) Line 102 - 105:

String MQTT\_server = "";

String MQTT\_port = "";

String MQTT\_user = "";

String MQTT\_pass = "";

Description: Adding 4 variables to store the information.

4) Line 144 – 145:

void handleMQTT();

void handleMQTTSave();

Description: Adding 2 functions to handle mqtt input.

1. These are the modifications in WiFiManager.cpp

1) Line 94 – 95:

server->on("/0MQTT", std::bind(&WiFiManager::handleMQTT, this));

server->on("/MQTTsave", std::bind(&WiFiManager::handleMQTTSave, this));

Description:

2) Line 343 – 421:

void WiFiManager::handleMQTT() {

…

}

Description: Wifi MQTT config page handler.

3) Line 540 – 557:

void WiFiManager::handleMQTTSave() {

DEBUG\_WM(F("MQTT save"));

Serial.println();

Serial.print("MQTT save IN handleMQTTSave");

Serial.println();

//SAVE/mqtt info here

MQTT\_server = urldecode(server->arg("s").c\_str());

MQTT\_port = urldecode(server->arg("po").c\_str());

MQTT\_user = urldecode(server->arg("u").c\_str());

MQTT\_pass = urldecode(server->arg("p").c\_str());

handleRoot();

Serial.println();

Serial.print("done in handleMQTTSave");

Serial.println();

Serial.print(MQTT\_user);

Serial.print(MQTT\_pass);

Serial.print(MQTT\_port);

}

Desctiption: Save the input data into variables.

1. After modifying the library, the interface should now have the option to enter MQTT Server Credentials.