

1. I could successfully connect to my WiFi network using Autoconnect. However, if the device power is turned off, it doesn't reconnect to the saved WiFi network upon power on. It is very important to reconnect to a saved network as this device is used standalone without the user nearby.

A: it should be connected to the saved WiFi network once you restart it. The reason why it is not connecting again might be because you are getting very low signal strength from your WiFi router.

I will check this again with better signal and let you know if there is any issue

OK

2. The code seems to be for using the NPK, BME280 and soil moisture sensors together. Since all users will not be using all the sensors, please provide information on how to disable unwanted sensors?

A: I have already placed the fail-safe checks in the Firmware. If the firmware doesn't detect any sensor it will report 0 values for it and will keep working with other sensors.

I will check this again with better signal and let you know if there is any issue

OK

3. As agreed with you, in the below code for soil moisture sensor, the values 550,0 is dependent on several factors and may have to be changed depending on the environment, type of soil etc. Hence, I would like this value to be fetched from the website instead of hardcoding. `int sensor_pin = 2; int value; void setupSoilMoisture() { } String getSoilMoisture() { value = analogRead(sensor_pin); value = map(value, 550, 0, 0, 100); Serial.print("Moisture : "); Serial.print(value); Serial.println("%"); delay(10); return String(value); }`

A: Sure, we can work on that.

Waiting for the update. Please confirm how, and when we can have it done

Working on that, will need sometime.

4. The BME280 sensor values are not showing. It always shows in Serial Monitor that the sensor is not connected. I checked the connections and found all were fine.

A: Done. I have updated the firmware and it should work now.

Waiting for the update. Please confirm how, and when we can have it done

Already done. Use the latest firmware it is working now.

5. What is this link in the code "broker.hivemq.com"? Is this a third-party service?

A: It is used to allow devices and websites to communicate with each other. It is a free service and acts as middleware between devices, apps, and websites etc. If you want to use your personal MQTT Broker in place of this free service, you can follow this guide

<http://www.steves-internet-guide.com/install-mosquitto-linux/> and then use the created address in place of broker.hivemq.com.

I would like to use my personal MQTT broker. I will follow the instructions in the link. Please support if there is any issue

Sure, I can support but will charge for the support.

6. Please provide the complete installation procedure in case, for example, I reinstall OS in my VPS. I can do the CapRover installation, but the .tar file installation I did was not successful, and you had done some changes to get things working. Hence, please provide detailed information, and I would like to try doing a reinstallation from my side.

A: Done. I have added the complete instructions in the new README.pdf file

I would like to use my personal MQTT broker. I will follow the instructions in the link. Please support if there is any issue

Sure, you can try in case you stuck anywhere, we can remotely help you and will charge for remote support.

7. Mobile App:-

a. Please include option to save login username and password in the mobile app.

A: I will check with my developer if it is possible, I will do that.

Okay, waiting

Sent the new app

b. The date shown in the x-axis is very congested in the mobile app(this is the same in webapp also when viewed in smaller screen). Generally, the app looks like the website converted to app. Is there anything which can be done to improve the graph display? Please see the below image

A: Updating it.

Okay, waiting

Done, please check in the new app.

c. We had discussed mobile app and not just Android app. So, both iOS and Android apps were expected.

A: Although there was no mention of iOS app in our discussion and it is a standard practice to provide the android app. But now I have built the iOS app as well. You can find it in the smartphone directory. I don't have MacBook to compile it so you can just copy the iOS folder to any MacBook with xcode and click compile/build and it will be ready in few minutes.

Thanks for doing the iOS app.. very much appreciate your time and support. I do not have a Mac as well. I will try to get support from someone. Will let you know how it goes

Sure, and thanks!

d. How can I add my logo in the mobile app (Also in the WebApp)

A: You should have provided the logos at the start of the project. The whole project now needs to be recompiled with new logos in order to change them,

Can you send me the code and all raw files, I will have someone do it for me.

Already shared everything including complete source code. Everything can be found here <https://github.com/Nauman3S/SmartAgri>

8. My data is not showing in the backend now in the links
(<http://smart-agribackend.iot.intelligadgets.me/api/mqtt>). I tried both firmwares
MQTTPubFW.ino and the Firmware.ino. Earlier it worked when I used MQTTPubFW.ino. My
serial monitor shows as below

A: The firmware seems to be working fine I am using the same firmware and you can see my
devices in the dashboard. Let me check with my developer to fix your device issue.

I will check once again once the updated firmware is ready

You can check now with the new firmware

9. How to use the OTA? What format file should I upload, how to create the file and how
it works? Is it operational already?

A: Open Arduino IDE, go to Sketch menu and click on export compiled binary. It will output a
.bin file, upload it to the dashboard and click submit. Now the OTA file is stored in the server.
We need ssh access to your server to prepare it for broadcasting OTA file.

On-device side you will be able to see something like this

<https://hieromon.github.io/AutoConnect/images/serverupdate.gif>

OK, I will check it out and let you know if there are any issues

Sure

10. Now devices in the website are represented by Mac addresses. Can we add a name
for each Mac address? If a user has more than one device, it is difficult to identify with Mac
address

A: yes it is possible but it will require modifications both in the backend and frontend.

Will you be doing this?

Sure, we can do this but will charge for this feature as there are many modifications
required.

11. In the soil parameters graph, the categories on the right is showing "Temperature"
"Humidity" and "Atmospheric Pressure". This needs to be changed to pH, EC, and N, P, K.
Also, the chart is not showing "Potassium"

A: Updating it

Thanks.. waiting

Updated

12. Please add date / time in the table and date in chart also as the time of reading
cannot be identified from the current table.

A: Updating it

Thanks.. waiting

Updated

13. The link is too long now (<https://smart-agri-frontend.iot.intelligadgets.me/tables>). How can I change it to something like <https://dashboard.iot.intelligadgets.me> ?

A: You will need to redirect the original link to anything shorter in you domain provider dashboard. See redirections in domain records for more details.

If I reinstall Caprover and use a different link name for the app, is it fine or should I use only the link which you specified?

Open

<https://captain.iot.intelligadgets.me/>

Click on smart-agri-frontend

Enter your new domain and click on connect to new domain.

14. How can I delete a device Mac Address from the drop down if it is no more used or damaged

A: Not possible for now maybe an expiration time can be added if device is not used for maybe one week or one month.

Please make an expiry period of 15 days if the device is not used

OK

I would recommend that you should delete all old files and get the latest files from here

<https://github.com/Nauman3S/SmartAgri/releases/tag/v1.2>

While all the source codes and raw files can be found here:

<https://github.com/Nauman3S/SmartAgri>