Automated Sunflower Solar Panel

This is an IoT based project works on an ESP-8266 Node-MCU Arduino Board with an LDR sensor, there will be a rotatable Solar panel system that has the initial(closed) position during the night time but when the light is available in day time the solar system automatically wakes up through sensing the light presence and all the solar panels rotate counter-clockwise and open like a sunflower and also follows the sun rotation, after the sunset all the solar panels are automatically rotated clockwise and go to the home(Initial) position until the sunlight arrives. We are adding some additional features to it such as monitoring the weather report with the use of the DHT11 sensor to track temperature and humidity accordingly. An IOT based system will be installed there to remotely access the sensors as well as solar panels and will also create a Mobile application to track and control the devices.