

Air-Quality-Monitoring-System – Phase 4

This project uses arduino online simulator (Tinkercad) with thingspeak to monitor the air quality and provide a statistical report.

Since here we use thingspeak for data analytics we didn't create the website for collecting data from the online simulation.

In thingspeak we have air quality measuring charts that helps in identifying the quality of the air.

In the tinkercad simulator code we have specific code lines that connect and transfer the data to the thingspeak website.

Code snippet:

```
String apiKey = "7V07TT8XCSRL4N03";  
ser.println("AT+RST"); // To restart the module  
ser.println("AT+CIPMUX=1"); // Enable multiple connections  
String cmd="AT+CWJAP=\"Malai\", \"12345678\""; // connect to Wi-Fi  
ser.println("AT+CIFSR");  
cmd += "184.106.153.149"; // api.thingspeak.com  
string getStr = "GET /update?api_key=";
```

In these snippet we get connected to the thingspeak online via wifi module through the apikey, channel name specific ip address that specifies the thingspeak website.

Screen shot of Thingspeak platform:

