Weather Station

Name: Conor Brennan Student No: 20012195

Introduction:

Weather Station using Raspberry Pi and SenseHAT. Write weather data to cloud. Make the data accessible through cloud based server that is accessible through smartphone app/website. Potentially incorporate into using the weather app developed in ICT module over last Summer.

Proposed Technologies:

Scripts to be written in Python programming language. Devices used will be Raspberry Pi and SenseHAT. Potentially ThinkSpeak used to regularly post weather updates. Blynk Cloud for writing the data and communicating with smartphone via app. May use Smart Visual IDE, if not SSH via Terminal.

Concerns:

Is this too simple? Would it be possible/best to bring in MQTT in order to encrypt messages/weather data being written to the cloud?