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Section: 1

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Assignment 2

Develop Functional requirements for weather station.

Answer:

* The data collected will be updated every hour and the updated temperature will be available for the user.
* All the data collected each hour will be kept in a log file which will also be able to be viewable by the user
* Wind speed and direction, ground and air temperature, sunshine, barometric pressure and rainfall will be monitored and these data will be available in the software
* All data will have an accuracy of 0.1 units.
* Temperature will be shown in Degrees Celsius, wind speed will be measured in knots, barometric pressure will be measured in millibars, sunshine measured in watts per square meter and rainfall in terms of millimeters
* Local processing and aggregation of data will take place before the data reaches the software from each weather station
* The software should never be down for more than 10 minutes.
* Instruments, power and communication hardware will constantly be monitored and checked along with backups available on the go if something unexpected occurs.
* Newer versions of the software will be ensured to be compatible with the machinery.