Functional Requirements for Weather Station:

* The weather parameters such as the wind speed and direction, the ground and air temperatures, the barometric pressure, and the rainfall will be measured by the over a 24-hour period.
* The hardware which will take the measurements will be controlled by the software system. The data will be collected periodically.
* The system will automatically check power, batteries of generators and shut down the instruments that can damaged by any natural calamities when they occur.
* The system allows for dynamic reconfiguration where parts of the software are replaced with new versions and where backup instruments are switched into the system in the event of system failure.