Functional requirements:

1. Be able to collect data from many different stations

2. Be able to collect different kinds of data including

a. Temperature

b. Barometric pressure

c. Hours of sunshine per day

d. Amount of rainfall

e. Speed of wind

f. Direction of wind

3. Be able to transmit data to data management system

4. Create a system that collects all of the data collected from the stations

5. Create a system that can process and analyze the data

6. Create a system that can archive the data

7. Create a system that can communicate by satellite with the stations

8. Create a system that can monitor the function of all of the stations

9. Create a system that can provide reports of any problems detected

10. Have different levels of security clearance

Non-Functional requirements:

1. All of the programs be written in Java

2. Have an interface that is usable by non-programmers