**Non-Functional**

The System shall ensure the quality of the data.

The System shall be design using the language of science

The System shall have different interfaces, one for people who have never used the system and one for people who may be very familiar with the system.

The System shall help the user come up with properties of interest.

**Functional**

The System shall create an alert when an (*event)* happens.

The System shall have users with restricted access that will not be able to edit properties.

The System shall have an administrator that will be administrating the data and the properties.

The System shall require authorization to validate the user’s privileges.

The System shall have a wizard or training to guide users on how to use the system.

The System shall keep track of who generated the data as well as the position, institution, and contact information.

The System shall keep track of who created the property originally and keep track of who changed it.

The System shall keep a revision history of the changes done to a property.

The System shall keep track of three kinds of data; data that is coming off the sensors, data properties, and anomalies.

The System shall allow the person who is responsible for the property to grant other users of the system access privileges to the property.

The System shall allow the user to designate their properties as public or private, public meaning anybody can view the property, or private which is restricted access.

The System shall allow properties to be back tested against any collected historical time.

The System shall allow for global scopes to be used for analysis which includes the whole time range of the available data.

The System shall allow for the user to view all data before a specific event declared by the user to happen also known as before R.

--Joseph requirements