Test Spec:

* Development testing: App will regularly be run throughout development to ensure a new feature does not lead to new bugs
* App will contain Junit testing to ensure that each module does as it is supposed to. For example, the ServerManagementReporter should have a Junit test that ensure 60 records are returned when a request to the machine is made with the getUtil variable equal to “minute”
* There should be a test that ensures no values are returned unless the getUtil variable equals either “minute”, “hour”, “day”, “week” or “month”
* There should be testing to ensure that this API does not become a security vulnerability
* App should return readings within a reasonable amount of time for each respective time period. For instance, as the “month” time period could contain several thousand records, it should take between 1-3 seconds to return all records. It should not take an unreasonable amount of time, such as over 10 seconds.
* The “minute” time period should take less than a second. This time period returns 60 records, one for each second from the past minute. If the returning of these readings takes more than a second, the readings will be out of date when they are delivered. This will lead to a noticeable lag between when a change in system resource usage occurs and when it is reported
* App should be tested by other developers to ensure it is easy to implement into other applications