**System and Unit Test Report**

SystemMonitor

Group 14 SMS

July 25 2016

User Story 1 from Sprint1: As a Windows user, I want to monitor resources usage so that I can optimize my computer.

User Story 2 from Sprint1: As a Windows user, I need UI so that I can see those resources usage easily and clearly.

Scenario:

* Run SMS.
* Select “Detail >>>” button.
* A window with a table with “Name”, “Cpu”, “Memory”, “Disk Read”, “Disk Write” on columns and running programs on rows should be displayed.
* The table should be refreshed every one second.
* Open a program.
* The opened program should appear from the table.

User Story 1 from Sprint2: As a user, I want to sort programs as I want, so that I can see the rank of each usage.

User Story 2 from Sprint2: As a user, I need to access the monitor, so I can determine if the algorithm works properly.

User Story 3 from Sprint2: As a user, I want to have an alert function, so that I can be notified if system resource usages are being used more than usual.

Scenario:

* Run SMS.
* Select “Detail >>>” button.
* A window with a table with “Name”, “Cpu”, “Memory”, “Disk Read”, “Disk Write” on columns and executing programs on rows should be displayed.
* The table should be refreshed every one second.
* Click (“Name” / “Cpu” / “Memory” / “Disk Read” / “Disk Write”) button.
* The table should be sorted as Descending (“Name” / “Cpu” / “Memory” / “Disk Read” / “Disk Write”) order.
* Click (“Name” / “Cpu” / “Memory” / “Disk Read” / “Disk Write”) button again.
* The table should be sorted as Ascending (“Name” / “Cpu” / “Memory” / “Disk Read” / “Disk Write”) order.
* If some function is using an abnormal amount of system resources, it pops up a Win10 metro style notification at the bottom right corner elegantly.

User Story 1 from Sprint3: As a user, I want to use the system monitor, so that I can access it the way I want to.

User Story 2 from Sprint3: As a user, I want to see detailed resource usages, so that I would know the actual resource usage of each program I use.

User Story 3 from Sprint3: As a user, I want to be notified when I’m using more resources than usual, so that I can monitor my programs more meaningfully.

User Story 4 from Sprint3: As a user, I want to have a logo for my program, so that I can recognize it easily.

User Story 5 from Sprint3: As a user, I want to see network usage with a dynamic graph, so that I can monitor it better.

Scenario:

* Start SMS.
* Select “>>>” button.
* A window with a table with “Name”, “Sent”, “Recv” on columns and using network devices on rows should be displayed.
* The table should be refreshed every one second.
* Click (“Name” / “Sent” / “Recv”) button.
* The table should be sorted as Descending (“Name” / “Sent” / “Recv”) order.
* Click (“Name” / “Sent” / “Recv”) button again.
* The table should be sorted as Ascending (“Name” / “Sent” / “Recv”) order.

Unit Test:

Cpu\_Stress.py

Memory\_stress.py