SySTemantics Design Document

By

Dixita Sharegar

Bhargav Uppalapati

Siva Chintapalli

**Sponsor**

Anthony Giorgio

Poughkeepsie, NY

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# **Document Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Author | Date | Status & Description |
| 0.1 | All | 02/25/16 | First Draft |
| 0.2 | Dixita | 03/06/16 | Document history section added |
| 1.0 | All | 03/10/16 | Final Draft |

# **Audience**

This document is intended for designers, developers & engineers who want to modify or extend the existing implementation of the metrics collector application. It is also intended for customers who want a detailed description of the system.

# **Objective**

A Metrics collector is a console based application which runs on Linux based operating system. The application incorporates CPU stats, memory stats, Network stats. It helps users of the system to manage the CPU throughput, and view network and memory stats allocated to the applications. Keeping track of all the system matrices without a proper application is hard. It is also very difficult to remember the commands to view all the system statistics. The statistics are logged into a database frequently which can be viewed by the user to keep track of system performance.

# **Approach**

The main goal of the project is to give the accurate and reliable information of the System Statistics.

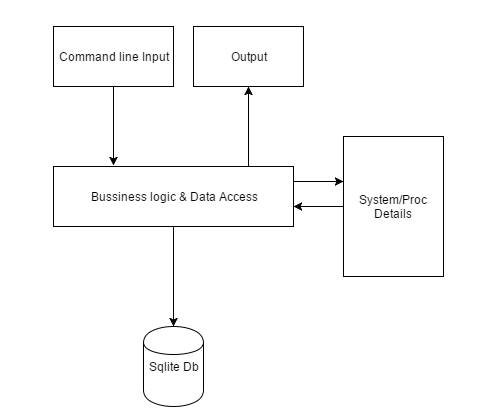
· Goal 1: Implementing the database.

· Goal 2: Designing the User Interface.

· Goal 3: Implementation (Connection to the database and logical Operations)

· Goal 4: Displaying the records/information in a report format.

· Goal 5: Testing and maintenance of the project.



# **External Design**

## Command Line Interface (CLI)

# **Security**

* There is no requirement for the software to run as root, but can be run as root authority if needed.
* Any user with the installation files can install and use the software. If needed, admin rights can be given.

# **Accessibility**

* The basic requirement, amongst other things, that there is sufficient contrast between text and background color.
* Best practice is to avoid the usage of red/green colors. As 1 in 12 people have red/green /yellow color disability.

# **Globalization**

* The UI buttons, display messages, console outputs are in English.
* SysTemantics supports only English language.
* Documentation is in English.

# **Supporting Material**

# **Risks and Dependencies**