

Software Requirements Specification

GodHands

GH-100-SRS-001

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| Document Ref | GH-100-SRS-001 |
| Version | 0.1 |
| Date | 2020-01-10 |

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| --- | --- | --- | --- |
| Rev | Date | Status | Description |
| 0.1 | 2020-01-10 | Draft | Initial pass |
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| References |  |
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# 1 Overview

This is a Software design document.

## 1.1 Purpose of this Document

This is a main section under the above heading.

## 1.2 Purpose of this Software

This is a main section under the above heading.

## 1.3 Main Goals

This is a main section under the above heading.

# 2 Reference Documents

This is a Software design document.

## 2.1 Software Design

This is a main section under the above heading.

|  |  |
| --- | --- |
| Document | Description |
| GH-100-SRS | Software Requirements Specification |
| GH-100-SDD | Software Design Document |
| GH-100-SUD | Software User Document |

Table 2.1: Software Design Documents

## 2.2 Reference Materials

This is a main section under the above heading.

# 3 System Overview

This is a Software design document.

## 3.1 System Architecture

This is a main section under the above heading.

## 3.2 Major Subsystems

This is a main section under the above heading.

# 4 Feature Requests

This is a Software design document.

## 4.1 Logger

This system shall provide a Logger which saves its log to File. Messages can be displayed in the Status Bar. Errors and Warnings are shown as Message Boxes.

|  |  |
| --- | --- |
| FEAT0101 | Log to file |
| Comments | The Logger saves messages to a log file |
| Priority | 10 |
| Effort | 2 |
| Status | Complete |

FEAT0101: Log to file

|  |  |
| --- | --- |
| FEAT0102 | Log to Status Bar |
| Comments | Messages can be logged and shown in the status bar. |
| Priority | 8 |
| Effort | 2 |
| Status | Complete |

FEAT0102: Log to status bar

|  |  |
| --- | --- |
| FEAT0103 | Errors and Warning in a Message Box |
| Comments | Errors and Warnings are shown in a Message Box. |
| Priority | 8 |
| Effort | 2 |
| Status | Complete |

FEAT0103: Log to status bar

## 4.2 Config

This system shall provide Configuration settings which are saved to a JSON file.

|  |  |
| --- | --- |
| FEAT0201 | Read Config from JSON file |
| Comments | The Config is read from file |
| Priority | 10 |
| Effort | 2 |
| Status | Proposed |

FEAT0401: Read Config from JSON file

|  |  |
| --- | --- |
| FEAT0202 | Save Config to JSON file |
| Comments | The Config is saved to file |
| Priority | 10 |
| Effort | 2 |
| Status | Proposed |

FEAT0202: Save Config to JSON file

|  |  |
| --- | --- |
| FEAT0203 | Config is publicly available |
| Comments | All modules may access the Config |
| Priority | 10 |
| Effort | On going |
| Status | Proposed |

FEAT0203: Config is publicly available

## 4.3 Ram Disk

The Ram Disk is an in-memory copy of the CD Image. Data is read from disk on-demand and once in memory all further access is performed in-memory. Writes are immediately committed to file. This means that the user does not have to save the file. The Save File operation will instead create a new file under a different name.

|  |  |
| --- | --- |
| FEAT0301 | Lazy loading |
| Comments | File data is read into memory on-demand. Once in memory, all further reads are performed in-memory. |
| Priority | 10 |
| Effort | 2 hours |
| Status | Complete |

FEAT0301: Lazy loading

|  |  |
| --- | --- |
| FEAT0302 | Writes committed to file |
| Comments | Writes are immediately committed to file. |
| Priority | 10 |
| Effort | 4 |
| Status | Complete |

FEAT0302: Writes committed to file

|  |  |
| --- | --- |
| FEAT0303 | Data Binding |
| Comments | Disk data is linked to object data. |
| Priority | 10 |
| Effort | On-going |
| Status | In Progress |

FEAT0303: Writes committed to file

## 4.4 Undo Redo

The Undo Redo system represents operations in the form of Command objects. Command objects perform the operation and store any data needed to undo the action. There is an infinite undo-buffer (limited only by available memory).

|  |  |
| --- | --- |
| FEAT0401 | Command Objects |
| Comments | Commands perform actions and store data needed to undo the action later. |
| Priority | 10 |
| Effort | On-going |
| Status | In Progress |

FEAT0401: Command Objects

|  |  |
| --- | --- |
| FEAT0402 | Undo |
| Comments | Operations can be undone |
| Priority | 10 |
| Effort | 2 |
| Status | Complete |

FEAT0402: Undo

|  |  |
| --- | --- |
| FEAT0403 | Redo |
| Comments | Operations can be repeated after being undone |
| Priority | 10 |
| Effort | 2 |
| Status | Complete |

FEAT0403: Redo

## 4.5 Publish Subscribe

The Publish Subscribe design pattern is managed by the Broker. Objects can Publish changes to the Broker and the Broker will announce the changes to the rest of the system. Any module can Subscribe to be notified of changes made to any object.

|  |  |
| --- | --- |
| FEAT0501 | Subscribe |
| Comments | Subscribers can be notified of changes |
| Priority | 10 |
| Effort | On-going |
| Status | In Progress |

FEAT0501: Subscribe

|  |  |
| --- | --- |
| FEAT0502 | Publish |
| Comments | Changes are published and subscribers are notified. |
| Priority | 10 |
| Effort | On going |
| Status | In Progress |

FEAT0502: Publish

|  |  |
| --- | --- |
| FEAT0503 | Register |
| Comments | Objects can be registered with the Broker. The Broker will announce all published changes to subscribers. |
| Priority | 10 |
| Effort | 2 |
| Status | Complete |

FEAT0503: Register

# 5 Priority Matrix

This is a Software design document.

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Priority | Status | Comments |
| FEAT0101 | 1 to 10 | Proposed |  |
| FEAT0102 | 1 to 10 | Proposed |  |
| FEAT0201 | 1 to 10 | Proposed |  |
| FEAT0202 | 1 to 10 | Proposed |  |



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