IdeaStorm Software Design Document

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# Introduction

## Goals and Objectives

## Statement of Scope

## Software Context

## Major Constraints

TBD – Need to figure out if this section will be needed or if all constraints will be covered in the section about constraints.

# Data Design

TBD – Need to cover the file structure, how files are saved and the classes used for this.

# Architectural and Component Level Design

TBD – Need to provide a good overview of the app structure, major components (drawing engine and gallery) and explain how these components communicate with each other. I also need to cover the MVC pattern briefly (reference apple material for this) and how it is being used in IdeaStorm.

# User Interface Design

TBD – I maybe able to reference the user interface mockups in the SRS for this.

# Security

TBD – This is simple, there is no security other then what Apple provides on its devices.

# Restriction, Limitations and Constraints

TBD – Explain the platforms and OS versions that it will be limited to. Also explain what the software cannot do (load previous drawings, rearrange drawings).

# Testing Issues

TBD – Explain the testing process for IdeaStorm (Manual Test Scripts) and the test scripts that were developed.

# Design Process

TBD – Explain the process of designing IdeaStorm including this rewrite.

# Conclusion

TBD – Explain each of the below sections using bullet points

## What Worked Well

## Challenges

## Lessons Learned

# Requirements Traceability

TBD – Need to separate these by the requirement type and the major part of the software they belong to (drawing engine or gallery).

## Drawing Engine Requirements

### External Interface Requirements

|  |  |
| --- | --- |
| Requirement | Document(s), section(s) and/or process(es) that meets the requirement |
| EIR005 |  |
| EIR018 |  |
| EIR001 |  |
| EIR002 |  |
| EIR012 |  |
| EIR022 |  |
| EIR025 |  |
| EIR019 |  |
| EIR011 |  |
| EIR021 |  |
| EIR028 |  |
| EIR026 |  |
| EIR027 |  |
| EIR029 |  |

### Functional Requirements

|  |  |
| --- | --- |
| Requirement | Document(s), section(s) and/or process(es) that meets the requirement |
| FR001 |  |
| FR002 |  |
| FR003 |  |
| FR013 |  |
| FR033 |  |
| FR032 |  |
| FR004 |  |
| FR005 |  |
| FR017 |  |
| FR020 |  |
| FR023 |  |
| FR021 |  |

### Performance Requirements

|  |  |
| --- | --- |
| Requirement | Document(s), section(s) and/or process(es) that meets the requirement |
| PR001 |  |
| PR002 |  |
| PR005 |  |

## Gallery Requirements

### External Interface Requirements

|  |  |
| --- | --- |
| Requirement | Document(s), section(s) and/or process(es) that meets the requirement |
| EIR044 |  |
| EIR038 |  |
| EIR039 |  |
| EIR030 |  |
| EIR031 |  |
| EIR032 |  |
| EIR033 |  |
| EIR034 |  |
| EIR035 |  |
| EIR036 |  |
| EIR037 |  |
| EIR041 |  |
| EIR045 |  |
| EIR047 |  |

### Functional Requirements

|  |  |
| --- | --- |
| Requirement | Document(s), section(s) and/or process(es) that meets the requirement |
| FR041 |  |
| FR035 |  |
| FR042 |  |
| FR036 |  |
| FR037 |  |
| FR014 |  |
| FR038 |  |
| FR040 |  |

### Performance Requirements

|  |  |
| --- | --- |
| Requirement | Document(s), section(s) and/or process(es) that meets the requirement |
| PR006 |  |

# References

TBD – Add Pressman reference in this section.

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