**Software Requirements Specification**

**for**

**Kastle 2.0**

**Version 0.1 approved**

**Prepared by Jose**

**Andres**

**Teky**

**Safa**

**Juan**

**Knowledge is Power Program**

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# Revision History

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| **Name** | **Date** | **Reason For Changes** | **Version** |
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**<Add rows as necessary when the document is revised. This document should be consistently updated and maintained throughout your project. If ANY requirements are changed, added, removed, etc., immediately revise your document.>**

# 1. Introduction

##

## 1.1 Purpose

This document explains a set of requirements and functions that the Kastle 2.0 website will utilize. Aside from this document another document will be included, the Software Design Document which will give more detail on the implementation and functions of what is described.

## 1.2 Intended Audience and Reading Suggestions

This document is intended for developers, project managers, testers and document writers who wish to read it and be informed on the technology.

## 1.3 Product Scope

The project referred as Kastle 2.0 was brought to us by Knowledge is Power Program of Los Angeles also known as KIPP LA. Kastle 2.0 is a site where the KIPP LA organization will be able to maintain all there data in one place rather than having multiple sites for the different level of users, comment dashboards they find interesting and bookmark dashboards they would like to refer to in the future.

 Successful use of the site will reduce the workload an admin will have to do in order to add ne dashboards they would like to add, improve navigation system, and simplify signing in to access all necessary data.

## 1.4 Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| KIPP LA | Knowledge is Power Program of Los Angeles |
|  |  |

## 1.5 References

There are no references in this document.

Referred to other projects for ideas will delete later.

# 2. Overall Description

## 2.1 Product Perspective

Kastle 2.0 will be built on either Joomla or Drupal. At the time of writing this document it has not yet been decided which will be used. Many CMS’s are very similar but these two are among the most used. Joomla and Drupal have a high learning curve than most CMS’s but they also have much more capability. The fact that they have much more capabilities than other CMS’s is the reason for choosing one of the two. We have not finished comparing capabilities yet so we have not made a final decision. Kastle 2.0 will also integrate Tableau dashboards by embedding them in the site pages.

## 2.2 Product Functions

Functions that the website will provide are as follows.

1. One time sign in
2. Recent activity tracking
3. Bookmarking dashboards
4. Commenting in dashboards
5. Description within menu options

## 2.3 User Classes and Characteristics

* Admin

An admin will sign in and be able to add new dashboards with tableau iframe links that will allow the selected users picked by the admin to view those dashboards. Admins will also be able to see comments staff leave on dashboards and take input on things they may do to improve the designated dashboard.

* Staff

A staff member will be able to see dashboards they have marked as bookmarked as well as recent activity that has been done to the site. As well as leave comments on the dashboards they would like to participate or have questions in.

##

## 2.4 Operating Environment

The content of Kastle 2.0 will be stored in a database created by either Joomla or Drupal on Windows. We have not yet launched the site on a server yet so we do not know the specifics of the system.

## 2.5 Design and Implementation Constraints

The server that the website will be hosted on will be the hardware and memory limitations. The limitations of the CMS we will be using will also affect the functionality of the software

## 2.6 User Documentation

User Manual

## 2.7 Assumptions and Dependencies

Joomla/Drupal

Tableau

## 2.8 Apportioning of Requirements

It is too early in the project to make assumptions of what will be delayed

#

#

# 3. External Interface Requirements

## 3.1 User Interfaces

The user interface will contain a side menu with categories of dashboards the user can access. The menu categories will be dependent on the level of access of the user. Through this menu the user will be able to select which dashboard in a certain categories they want to view. Users can also favorite a dashboard on this menu. The dashboard page will display interactable tableau dashboard. There will also be homescreen users will be greeted with. This home screen will display the user's name, position at the school, and the school. Recently added dashboards and user activity will also be shown on the homescreen.

## 3.2 Hardware Interfaces

Users will use a monitor and speaker to view the site, dashboards, and videos. Users will also use a mouse and keyboard in order to interact with the site.

## 3.3 Software Interfaces

Joomla 3.8

PHP 7.0+ or 5.6

MySQL 5.53+

Apache 2.4+

## 3.4 Communications Interfaces

User will be able to directly email admins of the sites with a comment box on the dashboard pages which will be done through a plug in on the CMS.

#

# 4. Requirements Specification

|  |  |
| --- | --- |
| 1.1 | The web application shall allow email/password access to site  |
| 1.2 | The web application shall allow Google single sign on |
| 1.3 | The web application shall have multiple levels of access |
| 1.4 | The web application shall have embed Tableau dashboards |
| 1.5 | The web application shall have comment boxes that email admins of the site |
| 1.6 | The web application shall have space for data protocols to be added  |
| 1.7 | The web application shall allow the ability to tag dashboards |
| 1.8 | The web application shall allow the ability to favorite a dashboard |
| 1.9 | The web application shall allow icons |
| 1.10 | The web application shall have a menu on the left side |
| 1.10.1 | The menu shall display categories based on user level |
| 1.10.2 | The menu shall display a description of dashboards |
| 1.11 | The web application shall have a search bar  |
| 1.11.1 | The search bar shall search by name, tag, and favorites |
| 1.12 | The web application shall be accessible on laptops, desktops, and mobile devices |
| 1.13 | The web application shall display recently added dashboards |
| 1.14 | The web application shall display recently visited dashboards |

## 4.1 Functional Requirements

|  |  |
| --- | --- |
| 2.1 | The web application shall authorize user login input |
| 2.2 | The web application shall display search results from the users query |

## 4.2 External Interface Requirements

The Menu will display all the categories available to the user. Clicking on a category with a mouse or on a touchscreen if on mobile will display the dashboards in that category. Users will be to scroll down through all the dashboards. Users will see a short description of each dashboard and will also be able to favorite a dashboard with a button next to the title of the dashboard.

The Dashboard page will display embedded Tableau dashboards in an iframe. There will also be a comment text box on the bottom of the page that a user can write in with a keyboard that will automatically send and email with the contents in the text box to the admins of the site.

Home page will display the user's name, position, and school at the top of the page. Through plugins the homepage will also display links to recently added dashboards by the admins and recently visited dashboards that a user can click or tap on to visit that page.

## 4.3 Logical Database Requirements

## All database content is managed by the CMS.

## 4.4 Design Constraints

# The server chosen to host the site on will be will be the main limitation of the site. The specifications of the server will determine the amount of load the site can take before it becomes unusable. The server will also determine the speed pages will be able to load.

# The CMS we choose and the plugins and templates available for the CMS will determine the amount of functionality the site can have 5. Other Nonfunctional Requirements

## 5.1 Performance Requirements

The site is not yet hosted on a server so we cannot take any measurements yet.

## 5.2 Safety Requirements

We will use google sign on and google authentication in order to keep user information safe.

## 5.3 Security Requirements

We will use google sign on and google authentication in order to keep user information safe.

## 5.4 Software Quality Attributes

Site should have a dynamic template so it can be accessed on any device

## 5.5 Business Rules

# There will be multiple users levels so higher level users can have access to dashboards that lower levels should not be able to view.

# 6. Other Requirements

# Appendix A: Glossary

# Appendix B: Analysis Models

# Appendix C: To Be Determined List