**Software Requirements**

**Specification**

**for**

***Rocket Math***

Version 1.0

February 2, 2015

**Prepared by:** **Samuel Arseneault, Kelly Markaity, John Luu**

( Table of Contents would go here )

1. **Introduction**

**1.1 Purpose**

The purpose of this Software Requirements Specification document is to provide a detailed description of the functionalities of the Rocket Math system. This document will cover each of the system’s intended features, as well as present the user interface of each component of the system. The document will also cover hardware, software, and various other technical dependencies.

**1.2 Scope**

The Rocket Math system is composed of three parts, the login portal for the teacher to interact with, the IOS application for the first grade students to interact with, and a database to store and retrieve data from both the iOS application and the web-portal.

For the iOS application, the students will be asked to perform basic math facts. The difficulty of these basic math facts will be split up into levels, which become increasingly harder as they master the levels. Once a level is mastered, the students will then be able to move on to unlock new and more challenging levels. While the students are interacting with the iOS application, they will also be generating data about their performance throughout the levels. Information such as the number of questions wrong, the amount of time spent on the level, and which level they struggle with the most, will all be sent to a server to be stored in a data base.

The data base that is connected to the iOS application will maintain information about the students accounts for the iPad as well. A student will be able to use any iPad they would like since their account will be linked to this database, opposed to having the application information stored on independent iPads. A student should be able resume their progress on the iOS application even if they were to sign into a different iPad.

**1.3 Definitions, Acronyms, and Abbreviations**

|  |  |
| --- | --- |
| **Term** | **Definition** |
| iOS | A mobile operating system developed by Apple Inc. which powers the iPad device. |
| Web-Portal | A internet application which allows a teacher to log to and access student records |
|  |  |

**1.4 References**

**1.5 Overview**