

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

민엔철 Team

~~Kidsnote~~ ManageKids Project Software Requirements Specification

<민엔철> Version <5.0>

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

Revision History

Date	Version	Description	Author
11/10/2022	<1.0>	SRS 1.0	Bae-Seong Min
20/10/2022	<2.0>	Add requirements 3.1.1.4, 3.1.1.5 Change system's name Edit Layout	Doan Thanh Hien
22/10/2022	<3.0>	Add requirements(3.1.6.2 ~ 3.1.6.7, 3.1.8 ~ 3.1.9) Delete original requirements(3.1.6.2, 3.1.6.3, 3.1.6.4)	Bae-Seong Min
22/10/2022	<4.0>	Add requirements (3.1.3 ~ 3.1.5) Delete a grammatical errors and overlap elements	Lee-Hyun Chul
12/11/2022	<5.0>	Add requirements Delete requirement and a grammatical errors	Bae-Seong min

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

Table of Contents

1. Introduction

- 1.1 Purpose
- 1.2 Scope
- 1.3 Definitions, Acronyms, and Abbreviations
- 1.4 References
- 1.5 Overview

2. Overall Description

3. Specific Requirements

- 3.1 Functionality
 - 3.1.1 Utilizing the ~~Kidsnote~~ ManageKids Menu for Teachers.
 - 3.1.2 Utilizing the ~~Kidsnote~~ ManageKids Menu for Parents.
 - 3.1.3 Utilizing the ~~Kidsnote~~ ManageKids Menu for Principal.
 - 3.1.4 Provide Customer Support.
 - 3.1.5 Maintain Customer Profile.
 - 3.1.6 Provide Personalized Profile.
 - ~~3.1.7 Change User's Account.~~
 - ~~3.1.7 Log in~~
 - ~~3.1.8 Log out~~
- 3.2 Usability
 - 3.2.1 Graphical User Interface
 - 3.2.2 Accessibility
- 3.3 Reliability & Availability
 - 3.3.1 Back-end Internal Computers
 - 3.3.2 Internet Service Provider
 - 3.3.3 Application Platform Provider
- 3.4 Performance
- 3.5 Security
 - 3.5.1 Data Transfer
 - 3.5.2 Data Storage
- 3.6 Supportability
 - 3.6.1 Configuration Management Tool
- 3.7 Cross Platform Based Product
- ~~3.8 User Documents and Help System~~
- ~~3.9 Purchased Components~~
- ~~3.10 Interfaces~~
 - ~~3.10.1 User Interfaces~~
 - ~~3.10.2 Hardware Interfaces~~
 - ~~3.10.3 Software Interfaces~~
 - ~~3.10.4 Communication Interfaces~~
- ~~3.11 Legal, Copyrights, and Other Notices~~
- ~~3.12 Applicable Standards~~

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

4. Supporting information

1. Introduction

The aim of this document is to gather and analyze and give an in-depth insight of the complete **Kidsnote** ManageKids software system by defining the problem statement in detail. The detailed requirements of the **Kidsnote** ManageKids are provided in this document.

1.1 Purpose

The purpose of the document is to collect and analyze assorted ideas that have come up to define the system, its requirements with respect to consumers.

In short, the purpose of this SRS document is to provide a detailed overview of the **Kidsnote** ManageKids software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. And this document aims to analyze what functions must be satisfied and the constraints that shouldn't be done, not how the system should be implemented.

1.2 Scope

Primarily, the scope pertains to the **Kidsnote** ManageKids product features. **Kidsnote** ManageKids allows you to manage all your child's information easily and efficiently. The school will manage all teachers. Teachers manage the classroom and provide materials for parents to see their children immediately after accessing. Of course, access is secured in a very private way and information is completely protected.

1.3 Definitions, Acronyms, and Abbreviations

SRS	Software Requirements Specification.
Class	It means an online class. The group with children, child's parents and teacher.
FAQ	Frequently Asked Questions.
Users	System users, include principal, teachers, parents.
ID	Account ID.
Owner	Account owner, include principal, teachers, parents.
Kid's information	It includes the kid's name and class name which he/she belongs to.

1.4 References

The references are:

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

✓ 'Kids Note' Web address: <https://www.kidsnote.com/en>

1.5 Overview

The remaining sections of this document provide a general description, including the product's hardware, functional and data requirements of the product. Section 2 gives an overall idea of the product. Section 3 gives the functional requirements, data requirements related to **Kidsnote** ManageKids . It also gives the user viewpoint of **Kidsnote** ManageKids . Section 4 is for supporting information.

2. Overall Description

This document contains the problem statement that the current must solve. And it also contains a list of stakeholders and users of the proposed solution. It concisely describes the features of the proposed system so stakeholders and users can understand the purpose and function of the system.

3. Specific Requirements

The specific requirements are that the **Kidsnote** ManageKids project must check children's statements in real time, so that parents can check children's accidents and regulate the their schedule. Also parents can communicate with teachers to tell them children's requestment easily.

3.1 Functionality

This subsection contains the requirements for the **Kidsnote** ManageKids application. These requirements are organized by features divided by the user's group and the other. Specifically, we divide the users group mainly into 3 groups: teacher, parent, and principal. And there are common functional requirements which children, teacher and principal can use.

3.1.1 Utilizing the **Kidsnote** ManageKids Menu for Teachers.

3.1.1.1 The system shall display all the students' information **list in a class**.

~~3.1.1.2 The system shall allow the teacher to see the student's information in detail.~~

3.1.1.2 The system shall allow teacher to set up ~~electronic~~ attendance.

~~3.1.1.4 The system shall allow teacher to make temperature record.~~

~~3.1.1.5 The system shall allow teacher to check temperature record.~~

~~3.1.1.3 The system shall allow teacher to add a student to the class~~

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

~~3.1.1.4 The system shall allow teacher to move a student to another class.~~

~~3.1.1.5 The system shall allow teacher to set up students' original information.~~

3.1.1.6 The system shall allow teacher to create ~~and update the education program~~
~~and~~ schedule.

~~3.1.1.10 The system shall allow teacher to make notice and voting to a class.~~

~~3.1.1.11 The system shall allow teacher to make notice to all classes.~~

~~3.1.1.12 The system shall allow teacher to create voting.~~

~~3.1.1.13 The system shall allow teacher to check voting.~~

~~3.1.1.14 The system shall notify the teacher about any change in the current
configuration.~~

3.1.1.7 The system shall allow teacher to make a report to a parent.

~~3.1.1.8 The system shall allow teacher to attach pictures and share them on the
class.~~

~~3.1.1.9 The system shall allow teacher to check whether the spelling and the word
spacing was wrong and correct them when posting.~~

~~3.1.1.18 The system shall allow teacher to see the report list.~~

3.1.1.10 The system shall allow teacher to see the attendance sheet.

3.1.1.11 The system shall allow teacher to make a notice to a parents of each class.

3.1.1.12 The system shall allow teacher to make a notice to all parents.

3.1.2 Utilizing the **Kidsnote** ManageKids Menu for Parents.

~~3.1.2.1 The system shall display detailed information about the kids, including original
information, medical record, attendance record, education state and schedule.~~

~~3.1.2.2 The system shall display photo album, notice, and voting state.~~

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

~~3.1.2.1 The system shall allow parents to see the photos uploaded on class.~~

~~3.1.2.4 The system shall allow parents to communicate directly with teacher or principal.~~

~~3.1.2.5 The system shall allow parents to request for medical test~~

~~3.1.2.6 The system shall show a menu and nutritional balance.~~

~~3.1.2.7 The system shall show a kindergarten bus schedule.~~

3.1.2.8 The system shall allow parents to inform the teacher about child's status, like feeling, condition, worry.

~~3.1.2.9 The system shall allow parents to unregister if they want to.~~

3.1.3 Utilizing the ~~Kidsnote~~ ManageKids Menu for Principal.

~~3.1.3.1 The system shall display detailed information of students and teachers.~~

~~3.1.3.1 The system shall allow principal to invite the teacher to a specific class.~~

~~3.1.3.3 The system shall allow principal to create and manage academic records and admissions certificates.~~

~~3.1.3.4 The system shall allow principal to communicate directly with teachers and parents.~~

~~3.1.3.5 The system shall show when teachers start and leave work.~~

3.1.3.1 The system shall allow principal to make a report to a parent.

~~3.1.3.2 The system shall allow principal to attach pictures and share them on the class.~~

~~3.1.3.3 The system shall allow principal to check whether the spelling and the word spacing was wrong and correct them when posting.~~

3.1.3.4 The system shall allow principal to make a notice to a parents of each class.

~~3.1.3.5 The system shall allow principal to make a notice to all parents.~~

3.1.3.6 The system shall allow principal to see the attendance sheet.

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

3.1.3.7 The system shall allow principal to set up-attendance.

3.1.3.8 The system shall allow principal to create the schedule.

3.1.3.9 The system shall allow principal to approve the request to belong to a particular class.

3.1.4 Provide Customer Support.

~~3.1.4.1 The system shall provide online help, FAQ's customer support.~~

~~3.1.4.2 The system shall allow user to select the support type he/she wants.~~

3.1.4.1 The system shall display the customer contact e-mail and contact numbers on the screen.

3.1.4.2 The system shall provide error report function to users.

~~3.1.4.4 The system shall allow user to enter the contact number for support personnel to call.~~

3.1.5 Maintain Customer Profile.

3.1.5.1 The system shall allow user to create profile and set his/her credential.

~~3.1.5.2 The system shall authenticate user credentials to view the profile.~~

~~3.1.5.3 The system shall allow user to update the profile information.~~

3.1.6 Provide Personalized Profile.

3.1.6.1 The system shall allow user to see all the notice list received by logged in their own account.

~~3.1.6.2 The system shall allow user to check the notice list filtered by date.~~

3.1.6.3 The system shall allow the user to check the notice in detail by selecting one of the notices in the list.

3.1.6.4 The system shall allow user to see the report list received by logged in their own account.

~~3.1.6.5 The system shall allow user to check the report list filtered by date.~~

3.1.6.6 The system shall allow the user to check the report in detail by selecting one of the notices in the list.

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

~~3.1.6.7 The system shall allow user to refuse the promotional and marketing information, and use service even in the case of refusal.~~

3.1.6.8 The system shall allow user to check the schedule.

~~3.1.6.9 The system shall allow user to see the report list.~~

~~3.1.6.2 The system shall allow user to check reports filtering by date.~~

~~3.1.6.3 The system shall allow user to control notification, photo/video, translate feature setting.~~

~~3.1.6.4 The system shall allow user to set 'manner mode' which disables notification sound.~~

~~3.1.7 Change User's Account.~~

~~3.1.7.1 The system shall allow user to change his/her account, when having more than one ID.~~

~~3.1.7.2 The system shall allow user to unregister if he/she wants to.~~

3.1.7 Log in

3.1.8.1 The system shall allow user to log in.

3.1.8 Log out

3.1.9.1 The system shall allow user to log out.

3.2 Usability

3.2.1 The system shall not charge any subscription or services fee. Just by creating an account, users can easily start using ManageKids.

~~3.2.2 The system shall provide ID and password retrieval function for those who forget.~~

~~3.2.1. The system shall not charge any subscription or services fee. Just by creating an account, users can easily start using Kidsnote ManageKids. Also the system shall provide a customer center to help users who don't know much about using web or mobile applications. The system shall provide ID and password retrieval function for those who forget.~~

3.2.1 Graphical User Interface

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

3.2.1.1 The system shall provide a uniform look and feel between all the web pages.

3.2.1.2 The system shall provide digital image for students' portrait, photo album of school activities.

3.2.1.3 The system shall provide use of icons and ~~toolbars~~.

~~3.2.1.4 The system shall provide change features like background color or font color and size.~~

3.2.2 Accessibility

3.2.2.1 The system shall provide ~~multi language~~ English, Korean, Chinese language support.

~~3.2.2.2 The system shall provide smart order for convenient payment.~~

3.2.2.3 The system shall provide operation for both computer and phone.

~~3.2.2.4 The system should be classified by function to be used comfortably.~~

3.3 Reliability & Availability

3.3.1 Back-end Internal Computers

~~3.3.1.1 The system shall provide storage of all databases on redundant computers with automatic switchover.~~

3.3.1.2 The system shall ensure privacy and security of information.

3.3.2 Internet Service Provider

3.3.2.1 The system shall provide a contractual agreement with an internet service provider. ~~access with 99.9999% availability through their network facilities onto the internet.~~

3.3.3 Application Platform Provider

3.3.3.1 The system shall provide functionality like a convenient app installed on the mobile phone.

~~3.3.3.2 The system shall support both Android and IOS platform~~

3.4 Performance

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

3.4.1.1 The product shall be based on the web and has to be run from a web server.

~~3.4.1.2 The product shall be a mobile app-based communication system which can be installed on the mobile phone.~~

3.4.1.3 The performance shall depend upon hardware components of the client/customer.

3.5 Security

3.5.1 Data Transfer

3.5.1.1 The system shall protect the phone number and confidential information of users.

~~3.5.1.2 Important data are protected shall be protected through separate security functions, including, without limitation, encryption of files and data to be transmitted or adoption of a file locking function.~~

3.5.2 Data Storage

3.5.2.1 The account shall only be accessible to authenticated owner

3.5.2.2 The system's back-end servers shall only be accessible to authenticated administrators.

3.5.2.3 The system's back-end databases shall be encrypted.

3.5.2.4 The access to the system is secured in a very private way and information is completely protected.

3.6 Supportability

3.6.1 Configuration Management Tool

~~3.6.1. The source code developed for this system shall be maintained in configuration management tool.~~

3.7 Cross Platform Based Product

~~3.7.1 There are memory requirements.~~

3.7.2 The computers and mobile platform applications ~~must be~~ shall be equipped.

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

~~3.7.3 The product must be stored in such a way that makes for convenient access.~~

~~3.7.4 Response time for loading must be shorter than 1minutes.~~

~~3.7.5 A general knowledge of mobile application and computer skills is essential to use products.~~

~~3.8 User Documents and Help System~~

~~-As we provide online services it can be hard to use for those who do not know well about computers or mobile apps. So providing guidelines for users is very important.~~

~~-To implement online user help, link , search fields,~~

~~-3.8.1. online customer center shall be provided.~~

~~3.9 Purchased Components~~

~~Not Applicable~~

~~3.10 Interfaces~~

~~-Since it is cross platform, the program shall provide many types of interfaces like User interfaces, Software interfaces and Hardware Interfaces.~~

~~The protocol used shall be HTTP.~~

~~3.10.1 User Interfaces~~

~~-The user interfaces for the software shall be compatible with any browser such as Chrome, Internet Explorer, Firefox. Alos user interface shall be implemented using tool or software packages like MS Front Page, EJB etc.~~

~~3.10.2 Hardware Interfaces~~

~~-Since the application must run on the inter browser and mobile app, all the hardware needs to connect to the internet. As for e.g. Modem, lan cable.~~

~~3.10.3 Software Interfaces~~

~~3.10.3.1 The Kidsnote system shall communicate with the meteorological administration for kids safe movement.~~

ManageKids Project	Version: <5.0>
Software Requirements Specification	Date: 12/11/2022

~~3.10.3.2 The Kidsnote system shall communicate with road traffic condition systems to know exact kindergarten bus time~~

~~3.10.3.3 The Kidsnote system shall communicate with security service platforms like Kakao etc.~~

~~3.10.3.4 The Kidsnote system shall communicate with online payment service Toss, Kakaopay etc.~~

~~3.10.3.5 The Kidsnote system shall communicate with an open communication system for parent's friendship and exchange of information.~~

~~3.10.4 Communication Interfaces~~

~~3.10.4.1. The Kidsnote system shall use the HTTP client server protocol for communication systems on the basis of TCP/IP.~~

~~3.11 Legal, Copyrights, and Other Notices~~

~~3.11.1 Kidsnote ManageKids system should shall display disclaimers, copyright, word mark, trademark of Kidsnote ManageKids project.~~

~~3.12 Applicable Standards~~

~~3.12.1. It The system shall be as per the industry standard like mobile e-government services and app store.~~

~~4. Supporting information~~

~~Please refer the following document~~

- ~~● Use case analysis~~
- ~~● Structural models~~
- ~~● Project Plan~~
- ~~● Web design~~
- ~~● Behavioral models~~
- ~~● App Icon~~