

# **Kidsnote Project**

## **Software Requirements Specification**

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# 1. Introduction

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

class	It means an online(Kids Note) class. The group with children, child's parents and teacher.
FAQ	Frequently Asked Questions

## 1.4 References

The references are:

- ✓ '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. It also gives the user viewpoint of Kidsnote. 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 project must check children's statements in real time, so that parents can check children's accidents and regulate the kid's schedule. Also parents can communicate with teachers to tell them their requestment easily.

### **3.1 Functionality**

This subsection contains the requirements for the Kidsnote 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 Menu for Teachers.**

3.1.1.1 The system shall display all the students' information.

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

3.1.1.3 The system shall allow teacher to make temperature record.

3.1.1.4 The system shall enable teacher to add one or more students to the class by sending invitation.

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

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

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

3.1.1.8 The system shall allow teacher to make notice and voting.

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

3.1.1.10 The system shall allow teacher to attach pictures and share them on the

class.

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

### **3.1.2 Utilizing the Kidsnote 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.

3.1.2.3 The system shall allow parents to download 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 medication.

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 Menu for Principal.**

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

3.1.3.2 The system shall allow principal to add/approve teacher's class, change/invite teachers, invite/notice parents.

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.

### **3.1.4 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.

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

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 notices received by logged in their own account.

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.

## **3.2 Usability**

- The system shall not charge any subscription or services fee. Just by creating account, users can easily start using Kidsnote
- The system shall provide a customer center to help users who don't know much about using web or phone apps.
- The system shall provide id and password retrieval function for who forgot.

### **3.2.1 Graphical User Interface**

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

- The system shall provide digital image for students' portrait, photo album of school activities
- The system shall provide use of icons and toolbars
- The system shall provide change features like background color or font color and size.

### **3.2.2 Accessibility**

- The system shall provide multi language support.
- The system shall provide smart order for convenient payment.
- The system shall provide operation for both computer and phone.
- The system should be classified by function to be used comfortably.

## **3.3 Reliability & Availability**

### **3.3.1 Back-end Internal Computers**

- The system shall provide storage of all databases on redundant computers with automatic switchover.
- The system shall ensure privacy and security of information

### **3.3.2 Internet Service Provider**

- The system shall provide a contractual agreement with an internet service provider for T3 access with 99.9999% availability.
- The system shall provide a contractual agreement with an internet service provider who can provide 99.999% availability through their network facilities onto the internet.

### **3.3.3 Application Platform Provider**

- The system shall provide functionality like a convenient app installed on the mobile phone
- The system shall support both Android and IOS platform

## **3.4 Performance**

- The product shall be based on the web and has to be run from a web server.
- The product shall be a mobile app-based communication system which can be installed on the mobile phone.
- The performance shall depend upon hardware components of the client/customer.

## **3.5 Security**

### **3.5.1 Data Transfer**

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

- Important data are 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**

- The account shall only be accessible to authenticated owner
- The system's back-end servers shall only be accessible to authenticated administrators.
- The system's back-end databases shall be encrypted.
- 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**

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

## **3.7 Cross platform based Product**

- There are memory requirements.
- The computers and mobile platform applications must be equipped.
- The product must be stored in such a way that makes for convenient access.
- Response time for loading must be shorter than 1minutes.
- 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, and 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. Also 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**

- The Kidsnote system shall communicate with the meteorological administration for kids safe movement.
- The Kidsnote system shall communicate with road traffic condition systems to know exact kindergarten bus time
- The Kidsnote system shall communicate with security service platforms like Kakao etc.
- The Kidsnote system shall communicate with online payment service Toss, Kakaopay etc.
- The Kidsnote system shall communicate with an open communication system for parent's friendship and exchange of information.

### **3.10.4 Communication Interfaces**

The kidsnote project shall use the HTTP client server protocol for communication systems on the basis of TCP/IP.

## **3.11 Legal, Copyrights, and Other Notices**

Kidsnote project should display disclaimers, copyright, word mark, trademark of Kidsnote project.

## **3.12 Applicable Standards**

It 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