
Software Requirements Specification

for

Day Care Project

Version <1.0>

Prepared by

Group 1

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Contents

REVISIONS	3
1 INTRODUCTION.....	4
1.1 DOCUMENT PURPOSE	4
1.2 PRODUCT SCOPE	4
1.3 INTENDED AUDIENCE AND DOCUMENT OVERVIEW	4
1.4 DEFINITIONS, ACRONYMS AND ABBREVIATIONS	4
1.5 DOCUMENT CONVENTIONS	5
1.6 REFERENCES AND ACKNOWLEDGMENTS	5
2 OVERALL DESCRIPTION	6
2.1 PRODUCT PERSPECTIVE.....	6
2.2 PRODUCT FUNCTIONALITY	7
2.3 USERS AND CHARACTERISTICS	8
2.4 OPERATING ENVIRONMENT	8
2.5 DESIGN AND IMPLEMENTATION CONSTRAINTS.....	9
2.6 USER DOCUMENTATION.....	9
2.7 ASSUMPTIONS AND DEPENDENCIES.....	9
3 SPECIFIC REQUIREMENTS.....	10
3.1 EXTERNAL INTERFACE REQUIREMENTS	10
3.2 FUNCTIONAL REQUIREMENTS.....	16
3.3 BEHAVIOUR REQUIREMENTS	19
4 OTHER NON-FUNCTIONAL REQUIREMENTS	19
4.1 PERFORMANCE REQUIREMENTS	19
4.2 SAFETY AND SECURITY REQUIREMENTS.....	19
4.3 SOFTWARE QUALITY ATTRIBUTES.....	19
5 OTHER REQUIREMENTS	ERROR! BOOKMARK NOT DEFINED.
APPENDIX A – DATA DICTIONARY	21
APPENDIX B - GROUP LOG	25

Revisions

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1 Introduction

1.1 Document Purpose

This document will present a detailed description of the day care system. It will outline all of the software's features and all of its purposes. It will give a clear walkthrough of each type of user interface and the required hardware for the system. This documentation is designed to be referenced by stakeholders and the development team.

1.2 Product Scope

Our program will allow a transition into a user-friendly system that will help the personnel and the customers. One of the main benefits will be fixing the organizational downfalls of the old paper system. This will be achieved through an automated sign in/out system for all children attending the day care facility. It will also improve communication between teachers and parents through classroom changes, issues that may arise, reminders from parents, illness updates and missed days, and any special need requirements for children. If any particular child is in need of timely or frequent medication it will alert the correct teacher and remind them to administer appropriately. This will increase accountability, improve and streamline record keeping for the day care, and provide an overall increase in care for the children.

Our project helps alleviate the workflow issues from a daycare center's day to day child organization routines. This application offers a streamlined workflow for teachers and parents with secure and simple sign in/out for the children.

1.3 Intended Audience and Document Overview

The intended audience is for the development team, students creating the project, and also the "client", which in this case is the professor.

The Overall Description section describes the system as informal requirements. This will help establish and give a context for how the rest of the document pertains to the application being developed. The Specific Requirements section is aimed for the developers. This includes more terminology that would be directed specifically for persons in the development field. However the entire document is meant for both audiences and will be readable for both as a result.

1.4 Definitions, Acronyms and Abbreviations

- **RFID:** Radio Frequency Identification.
- **SSN:** Social Security Number.
- **Push notification:** Notification delivered to remote devices, such as a parent's phone.
- **API:** Application Programming Interface. Allows a program to communicate with another.
- **Encryptions:** Data that is concealed by converting it into code.
- **Action Overflow Button:** Extra options that are revealed by the vertical "..." on Android.
- **Navigation Drawer:** A panel that transitions in from the left edge of the screen and displays the app's main navigation options.

- **Dialogue Box:** A small area on screen where a user is asked to for input or to make a choice.
- **NFC:** Specialized branch of RFID technology.
- **Key Fob:** Type of security token: a small hardware device with built-in authentication mechanisms.
- **Interface / Client:** The means by which the user and a computer system interact, in particular the use of input devices and software. The particular layout of on-screen elements.
- **SMTP:** Simple Mail Transport Protocol.
- **MD5:** Message-digest algorithm for cryptographic has functions and produces a 128 bit has value typically expressed in text format as a 32 digit hexadecimal number.

1.5 Document Conventions

Formatting conventions used in this document are as follow:

Arial font size of 11 is used for the entire document for the body of the document. Italics would only be used for comments. Section labels are Arial font size 14 and bold. Sections one step below the main label will be Arial font size 12 and bolded.

1.6 References and Acknowledgments

Google Developer information page: <https://developer.android.com/design/index.html>

2 Overall Description

2.1 Product Perspective

Main Lobby Tablet:

- An Android tablet that can be used by anyone at the day care facility.
- Allows anyone to sign the children in and out by using a username and password through the application.
- An Android phone, with the app installed, can use NFC to tap a RFID tag and then sign in/out the specific children.
- A parent user can perform any of the functionalities on this terminal as they can on their own device. The interface will also look the same to decrease difficulty.

Parent User:

- They will have the option to use their own Android device or the Main Lobby Tablet.
- They can see any news that is relevant to their child in a news feed. These will include notes from anyone at the day care.
- They can add notes for the day care and teacher about anything that is relevant to their child.
- Parents will receive reminders to update their personal information for annual registration. This can be accomplished inside the app.

Teacher User:

- The teacher will have a view of every child that has been signed in and assigned to their class. This can be used for roll call whenever needed.
- The teacher will be able to select any child and choose to move them to any class.
- If a child has any medications to take throughout the day, it will notify the teacher at the appropriate time with information to administer the drug.
- Teachers can view notes on any of the children in their class.
- Notifying a parent or an entire class will be done through notes. Also there will be an option to send an email if necessary.

Receptionist/Staff User:

- Responsible for adding parents and children to the system with the needed information. Will be approved by the administrator.
- If there needs to be a change to the children's or parent's information, they can change it for them.
- If there is a problem with checking a child in or out, the staff can do it for the parent.
- At any point in time, they can see where the child is currently and any information the child might have.

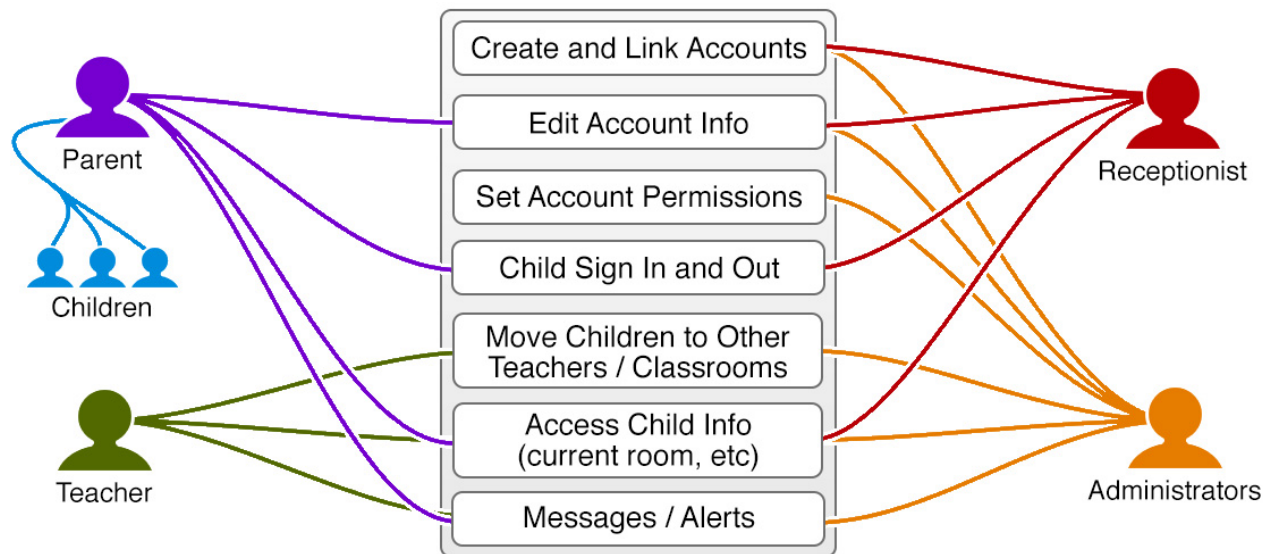
Administrator:

- Ability to add, edit, remove, or view all content within the application.
- Any of the options for functions that any user can execute, the administrative client will be able to use as well.
- Responsible for reviewing new staff, teacher, and parent user accounts and changing account rights and permissions accordingly.

2.2 Product Functionality

- Anyone will be able to sign the children in and out by using a username and password through the application. Once logged into the application there will be a sign in/out children option. The user chooses that option and selects the appropriate choice of in or out. The children's information will be automatically placed into or removed from the application and saved with a timestamp for record keeping purposes. More information in section 3.2.1 and 3.2.2.
- The user will also have the option to use a NFC enabled Android device to sign the children in or out. It will allow a faster option for the checking in and out process. See section 3.2.3.
- The parent user can use the app on an Android phone or tablet. They will still have the option to use the main lobby tablet since it designed for anyone to use.
- The added child will be assigned to the appropriate classroom and teacher. When the parent needs to pick up the child they will have an accurate location in the day care facility.
- Inside the application, the parent can update any notes for the child. They can add anything of importance such as any illness the child may have, medications and administration the child needs, and any other special attention item. Also, they can view any notes the teacher may have left for their child and any overall class notes. For more, see section 3.2.7 and 3.2.8.
- Parent users will be able to update their information when logged in to their account. Section 3.2.5 outlines what can be changed at any time.
- The teacher will have a view of every child that has been signed in to the day care and is assigned to their class. Section 3.1.1.1 and 3.2.6 includes more detail for this functionality.
- If the day care needs to move a child between classes, they will be able to select the child and choose which class to move them to. The other teacher's list will then update with the child added to their classroom list.
- If a child has any medications to take throughout the day, it will notify the teacher at the appropriate time with how to administer the medication, the medication name, and dose. Section 3.2.14 covers adding medication information.
- There will be an option to create a message to be sent to the entire classes' parents. This will allow them to update on any events or remind parents about anything relevant to the day care class. Also, each student's parent can have a note or message sent to them from the day care. See section 3.2.7.

2.3 Users and Characteristics



This standalone software system originated to help alleviate the accountability issues from a daycare center's day to day child organization routines. It offers a streamlined workflow for teachers and parents, with secure and simple sign in/out for the children.

2.4 Operating Environment

In order for the application to run on an Android device, the device must have the Android OS 4.0.3., Jelly Bean, or newer. Any system that has an operating system older than Jelly Bean will be unable to download or use the application as is.

2.5 Design and Implementation Constraints

1. Time constraints.

A large constraint of this project is the predetermined time schedule we have. A large percentage of that time will be taken by documentation, leaving us with only about a month to develop the actual software. Many things can stem from this. There are several features that we would like to include, but the time simply won't allow it. We are planning to build around the possibility that we may run out of time, so we will get a working product and add the features that the time allows.

2. Some staff unfamiliar with development aspects.

Our staff has different strong points, which could be considered a constraint. A variety of skill sets is valuable for covering different areas as long as the planning takes an individual's strengths into consideration. However, the team could run into efficiency issues if a member is assigned to develop an aspect of the software that they are unfamiliar with. They will have a learning curve which ends up 'wasting time' on a project with strict time constraints.

3. Security.

Due to time constraints, the security methods used for this software system may be limited to encryptions and API keys. We will use the best methods known to the group to create a product that is secure as possible. Like anything, security can *always* be improved.

4. Psychology of user interfaces.

Our staff has a general understanding of the psychology behind creating intuitive user interfaces; the benefits received from deep research on the subject don't justify it for the needs of this project.

2.6 User Documentation

See Appendix A.

2.7 Assumptions and Dependencies

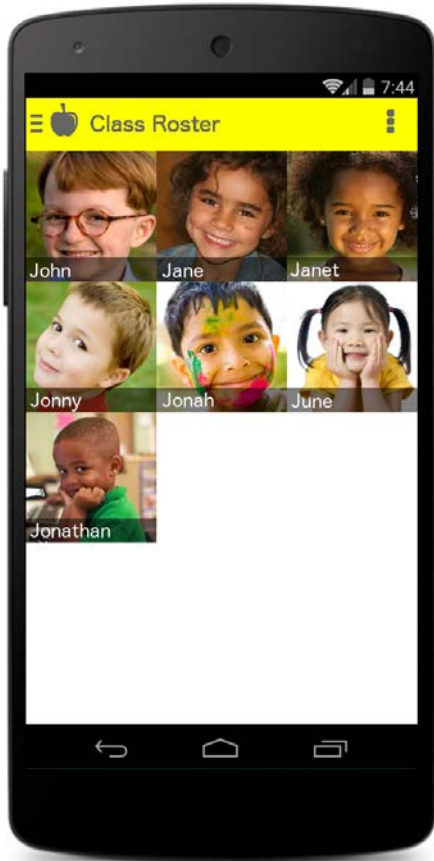
Some assumptions are made for the administrative functions. The ability to view, edit, or delete information is an assumption type. Also, when an account is created the administrator should approve it but it isn't required for the user to start using the account. The reason for this would be the only people who are able to create accounts are staff personnel. For updating and maintaining, we can assume that certain staff will have access to the web server information, database, and other system level access.

3 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

Teacher Interfaces:

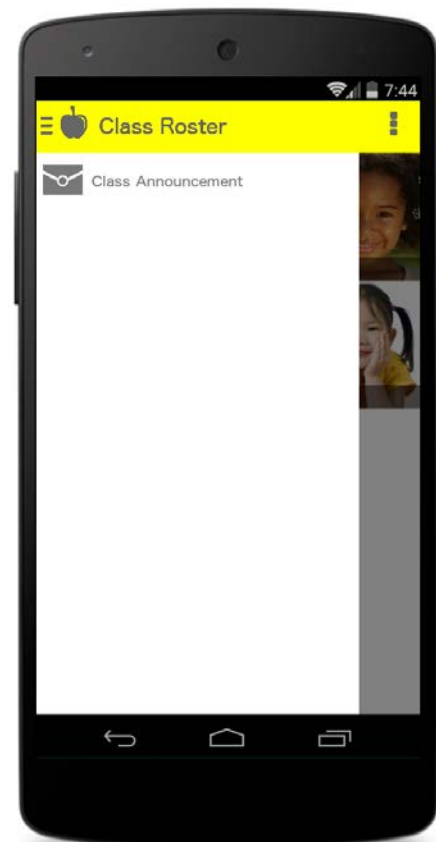


3.1.1.1. Teacher Client:

This is the home screen for the teacher. This will allow the specific teacher, logged in, to see all of the students that are assigned to their class. If a teacher had a student that was moved into her class by another teacher, it would update and add the student's picture on the home screen.

3.1.1.2. Class Announcement:

Clicking on the navigation drawer will allow the teacher to choose "Class Announcements". A new screen will appear with an option to select, at the top, for an email or note. Below that will be a section called "Title" and "Message", where the teacher can input in the boxes accordingly and hit "Send" or "Cancel".



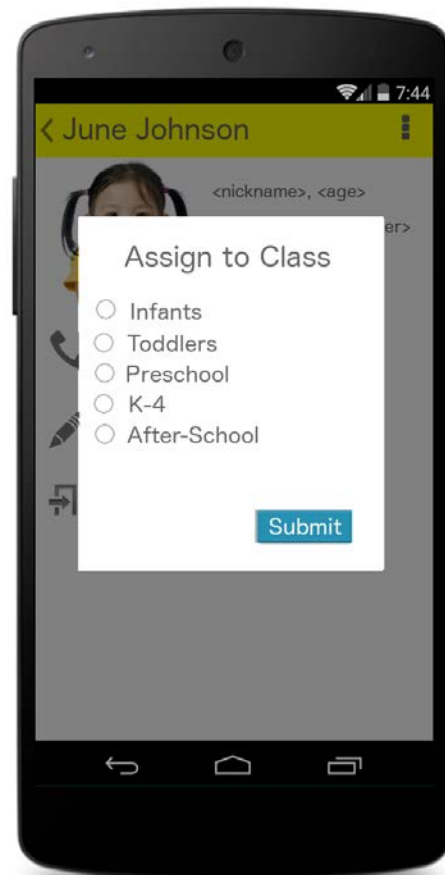


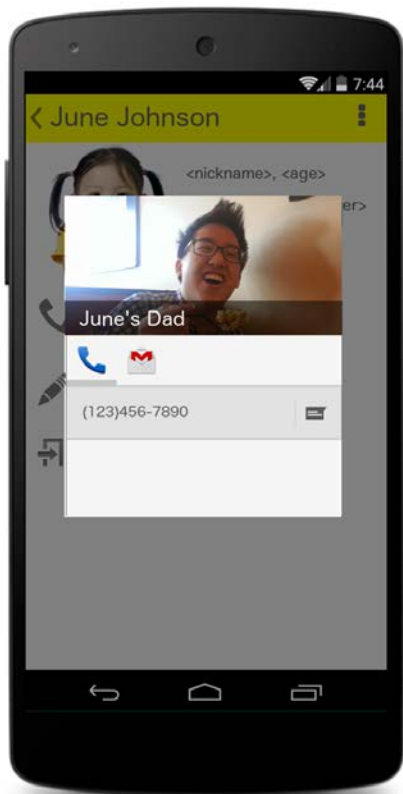
3.1.1.3. Child's Information:

This includes a picture with a nickname, age, primary teacher, and primary contact. Also, it has buttons for contacting a parent, adding a note, moving a student, or reading notes on file.

3.1.1.4. Moving a Child:

Pop-up dialog with options to pick which classroom to move the child is listed. There is a submit button to save the assignment.



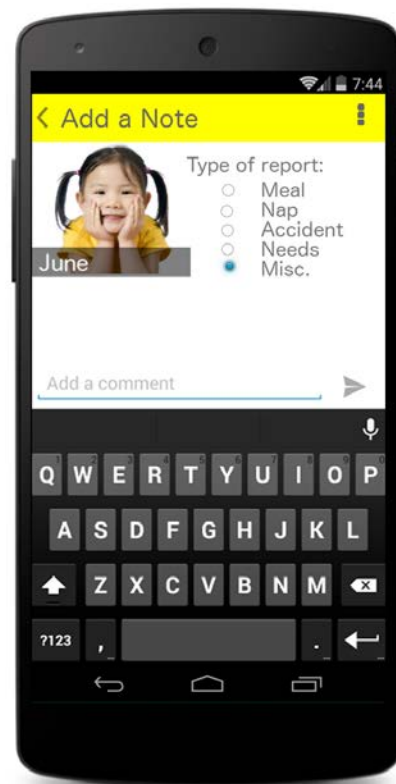


3.1.1.5. Contacting a Parent:

This displays the telephone number and picture (if available) of the parent. The user can touch the correct phone number to have it directly make a phone call.

3.1.1.6. Adding Notes:

For the "Add a Note" screen, the user will be able to choose the type of note they are adding and the actual note itself. They can hit the send symbol to submit or back on their phone to cancel the note.



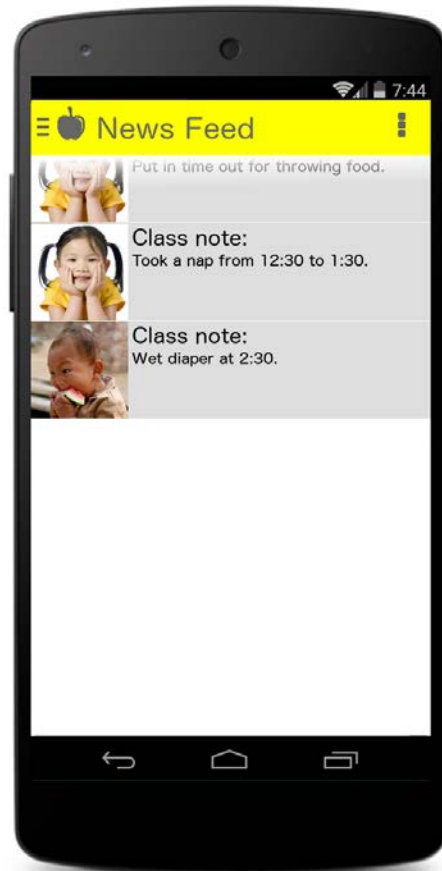
3.1.1.7. Reading Notes:

This display's all notes the parent has sent to the teacher in the form of a news feed. The news feed will display the same as the parent's news feed; Go to 3.1.1.8.

Parent Interfaces:**3.1.1.8. Parent Client:**

This is the home screen for the parent user. This includes all updated notes from the teacher and also any notifications sent for the whole class. The news feed will also include an item for any classroom changes throughout the day. The navigation drawer will include the following:

- Add Note
- Account Information



<Screenshot>

3.1.1.9. Choosing a child:

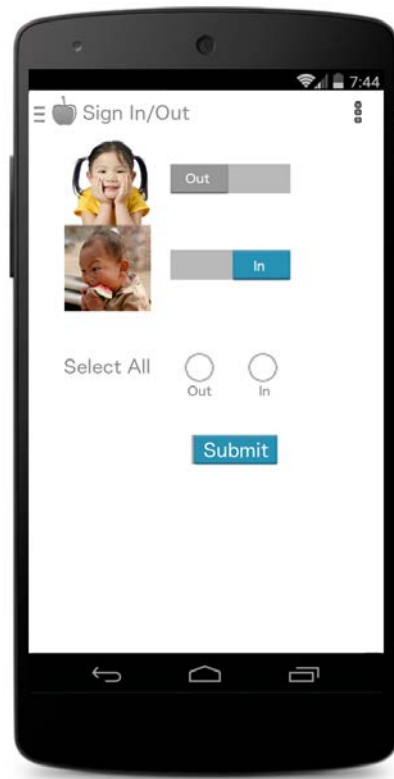
Another screen will include pictures of the children a parent has enrolled. You reach this screen by choosing "Add Note". This will allow the parent to choose which child they would like to add a note to.

3.1.1.10. Adding a Note:

Same screen as teacher view. Please see section 3.1.1.6.

3.1.1.11. Sign In/Out:

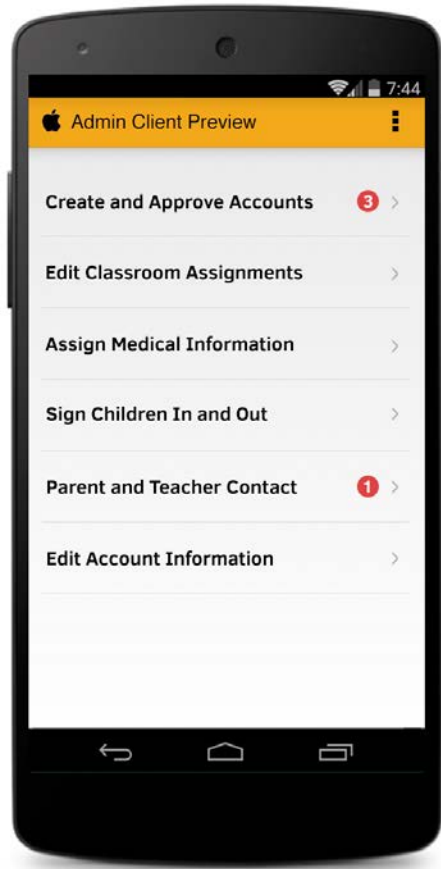
This includes pictures for the specific parent's children with switches to choose which children to sign in and out. It will also have the option to sign all kids in or all kids out, followed by a submit button.



<Screenshot>

3.1.1.12. Account Information:

A list of all the account information on the parent and child will be visible. The parent can choose any available item that is not grayed out and update it at any time. If the parent has changed something, a submit button will be available to save all changes.

Administrator Interface:**3.1.1.13. Admin Client:**

The home screen will list all available options to any parent user or teacher user. Also, it will have a section to put in any medical information for a specific child. The option to create accounts and edit accounts will be included.

Staff Interface:**3.1.1.14. Staff Client:**

The interface will look the same as the administrator interface except for the option to Approve Accounts and Assign Medical Information will not be available.

3.1.2 Hardware Interfaces

We will be using the Android platform for the majority of the system. An Android Tablet with NFC enabled and an Android phone, with or without NFC, will be required in order for testing and implementation. RFID tags will be utilized for the sign-in/out process.

3.1.3 Software Interfaces

A web server will be needed for the process and delivery of the web page. HTML, CSS, PHP, and JavaScript (JQuery) is how the web page will be developed. In addition, MySQL will be how the database is implemented for all the stored records.

3.1.4 Communications Interfaces

For this particular application, the e-mail SMTP protocol will be needed for all of our email notifications. The security of the communications will be left to the client to control. We plan on using an MD5 cryptographic has function as our main way of encrypting the sensitive data that will be communicated back and forth. Also, the amount of data that is being transferred would be considered minimal because it's not graphics intense and extremely text based. Therefore, data transfer rates should not be an issue. Operating with Android OS Jelly Bean and newer, we can guarantee that the data transfer rate the particular device can handle will be within the range required.

3.2 Functional Requirements

1. Sign in:
 - a. For the specific child, it adds the child into the system and places them as an active view for the teacher for whom the child is assigned. Also, a current date and time stamp is recorded and saved into a database for use in determining fees charged to the parent. The parent's view will only include their own children. For the staff and administrator view it will list all children and have an option to search for a specific child. See user interface for parent in section 3.1.1.11.
2. Sign out:
 - a. Removes the child from the assigned teacher's view and records the current date and time stamp for the same purpose of allocating any fees associated with a late sign out. The parent's view will include only their children and the interface is in section 3.1.1.11. Also, staff and administrators will be able to search through all the children and sign them out.
3. NFC functionality (Optional):
 - a. Using the NFC on the parent's android device, when the device taps the tag at the Main Lobby Terminal, it pops the dialog for logging in or out. Then all the functionality listed in section 3.2.1 and 3.2.2 will apply.
4. Creating new accounts:
 - a. Information needed to set up staff and teacher login accounts:
 - i. First and last name of the staff personnel/teacher.
 - ii. Social Security Number.
 - iii. Email address.
 - b. Information needed to set up parent login accounts:
 - i. First and last name of parent.
 - ii. Telephone number.
 - iii. Social Security Number.
 - iv. Email address.

- v. Children's information.
 - 1. First name.
 - 2. Date of birth.
 - 3. Notes.
 - c. The email address will be used as their login name. The user will not be able to change the login name to anything else.
 - d. A password will be assigned automatically. The user will have the option to change it when they are logged in to their account.
 - e. This will be completed by staff or administrators.
- 5. Editing current accounts:
 - a. Information that can be changed:
 - i. First and last name
 - ii. Email address
 - iii. Telephone number
 - iv. Children's information
 - 1. First name
 - 2. Notes
 - b. When the parent user chooses to view their account information, the appropriate information available for change will always allow the user to change the information. The other information displayed will be "grayed out" and be unable to change. They must go through a staff or administrator to change any other information.
 - c. All users will have this functionality.
- 6. Teacher assignments:
 - a. Students need to be assigned to a specific teacher.
 - b. A teacher can have as many students as the day care approves.
 - c. A student can change teacher assignments unlimited amount of times and at any point in time of the day.
 - d. Only staff and administrator can assign teachers to children.
- 7. Notifying a parent or teacher:
 - a. Note (for any user)
 - i. Choose the type of note from the following:
 - 1. Meal
 - 2. Nap
 - 3. Accident
 - 4. Needs
 - 5. Misc.
 - ii. Enter a message that is no more than 145 characters.
 - iii. Must update in the news feed.
 - b. Email (day care use only)
 - i. Enter a title for the message
 - ii. Enter the desired message
 - iii. Must be able to send the email message to the parent's email address on file and sent from the day care's email.
 - c. Notifying a class (day care use only)
 - i. Sent to the parents of all of the children assigned to one teacher.
 - d. Any staff or administrator can complete any of these tasks.
- 8. Viewing a child's notes:
 - a. For every child, all of the notes can be viewed as a news feed.
 - i. A series of cards that will show the type of note and the message of the note.
 - ii. This will be the default home screen for a parent user.
 - 1. For more than one child of a parent, the parent can choose to only show notes and notifications for a specific child on the news feed.

- They will select the child through the action overflow button to filter the news feed.
- 2. See 3.1.1.8 for the specific layout of the parent's news feed.
- b. Any user that has access to the specific child's information will have access to this news feed.
- 9. Moving students:
 - a. Staff or administrators can move a student to a different teacher at any time of the day.
 - b. Once completed it will be updated immediately for the new teacher and original teacher.
- 10. Calling a parent
 - a. See 3.1.1.5.
- 11. Approving accounts
 - a. Any account added needs to be reviewed for accuracy and approved. An administrative account does not need to be reviewed because it will be added by a current administrator only.
 - b. Set the appropriate permission to one of the following:
 - i. Staff
 - ii. Parent
 - iii. Teacher
 - c. Administrators function only.
- 12. Creating an administrative account
 - a. Information needed to set up Administrator accounts:
 - i. First and last name of administrator.
 - ii. Social Security Number.
 - iii. Email address.
 - b. The email address will be used as their login name. The user will not be able to change the login name to anything else.
 - c. A password will be assigned automatically. The user will have the option to change it when logged in to their account.
- 13. Changing account passwords
 - a. If any account user has forgotten their user password, the administrator can reset the password to a generated password. The user will then be able to change it to a different password after they login.
- 14. Adding medications
 - a. With the appropriate medical information provided by the parents, only the administrator will add the following information the any child:
 - i. Drug name
 - ii. Correct dosage
 - iii. Frequency
 - iv. Administration method
 - v. Brief description of the physical drug
 - b. The frequency will be used to push a notification to the child's teacher at the appropriate time with the rest of the information. This will let the teacher know exactly how to give the appropriate medicine to the correct child.
- 15. Listing Children:
 - a. Pull parent SSN and child SSN and an encryption combo will give the child's ID which can be used to access the child's private information. It will also be able to link the private information to the child's public information to generate the entire child's profile.

3.3 Behaviour Requirements

3.3.1 Use Case View

<A use case defines a goal-oriented set of interactions between external actors and the system under consideration. Since sometimes we will not be able to specify completely the behaviour of the system by just State Diagrams, we use use-cases to complete what we have already started in section 3.3.1.

TO DO: Provide a use case diagram which will encapsulate the entire system and all possible actors. Do not include detailed use case descriptions (these will be needed when you will be working on the Test Plan), but make sure to include a short description of what every use-case is, who are the actors in your diagram. For more information please refer to your UML guide and the MiniThermostat SRS example file.>

4 Other Non-functional Requirements

4.1 Performance Requirements

1. Actions that involve updating personal information will not take more than 10 seconds.
2. Moving children from one class to another should take at the most 10 seconds.
3. The result of adding a user to the system will take no more than 20 seconds.
4. All notes need to be delivered within 5 minutes from being created.
5. Authenticating users with RFID may not exceed 5 seconds.

4.2 Safety and Security Requirements

- **Sensitive Account Information**

Sensitive information stored for each account will be stored with a one-way encryption. Things like Social Security Numbers, passwords, etc, will be encrypted.

- **User Authentication**

Passwords are never stored or compared in plain text. User IDs and API Keys are generated through encryptions of special strings that are unique to each account. Each device will require admin authentication and matching User ID and API Key. A user's key fob will store their unique User ID and special authentication key, never their personal information or password.

- **Child Information**

Information for each child is never stored in association with their names. Instead, the information is stored with unique Child IDs which are generated through methods based on the child's parent account. This adds an extra layer of protection to sensitive information about each child, including their current classroom, medication notes, etc.

4.3 Software Quality Attributes

- **Usability**

This software should be designed for a fast and efficient workflow that allows for quick adoption in many environments. The end user has a small learning curve through the use of intuitive user interfaces, resulting in improved usability.

- **Reusability**

This software is efficient and reusable over time by keeping the usage history separate from current weekly, actions. Administrators will have the option to choose how long to keep usage history.

- **Interoperability**

This software has the opportunity to tie into other systems through the use of the API. Some features could easily be converted into "public" APIs for other internal systems could tap into. If the pre-existing system offers some sort of API functionality, this software could also tap into that.

- **Reliability**

The software should smoothly run on either a web server or local server. A local server would provide the most reliability since it would not require an active internet connection to interact with: in the event of an ISP outage, the system could still be access and modified. (For the ease of development and display of this project, we will be using a web server).

4.4 Database Design

1. Tables for the database:
 - a. Parent
 - i. SSN
 - ii. Name
 - iii. Email address
 - iv. Phone

- v. Children SSN
 - vi. ID from md5 (Name + SSN)
 - 1. Unique
- b. Children
 - i. SSN
 - 1. Unique
 - ii. Name
 - iii. Date of birth
- c. Child Information
 - i. Child ID (Parent SSN + Child SSN pass through encryption giving ID)
 - 1. Unique
 - ii. Current location
- d. Medical Information
 - i. Child ID
 - 1. Unique
 - ii. Drug name
 - iii. Dosage
 - iv. Frequency
 - v. Admin method
 - vi. Description
- e. Login
 - i. Email address
 - 1. Unique
 - ii. Password
- f. Staff
 - i. Name
 - ii. SSN
 - 1. Unique
 - iii. Email address

Appendix A – User Documentation

Administrative Functions

- Creating User Logins:
 - 1. From the home screen, choose “Create and Approve Accounts”.
 - Information needed to set up staff and teacher login accounts:
 - First and last name of the staff personnel/teacher.
 - Social Security Number.
 - Email address.
 - Information needed to set up parent login accounts:
 - First and last name of parent.
 - Telephone number.
 - Social Security Number.
 - Email address.
 - Children’s information.
 - First name.
 - Date of birth.
 - Notes.
 - Information needed to set up Administrator accounts:
 - First and last name of administrator.

- Social Security Number.
 - Email address.
- 2. The email address will be used as their login name. The user will not be able to change the login name to anything else.
- 3. A password will be assigned automatically. The user will have the option to change it when logged in to their account.
- Adding children:
 1. From the home screen, scroll through the options and choose “Edit Account Information”.
 2. A pop up dialog will ask “Please enter parent’s email address: “ and type in the appropriate information.
 3. If the email address is not found it will display “Cannot find email address: “ and three options will appear, “Try different email address” or “Find by parent SSN” or “Cancel”.
 - “Try different email address”: The screen will prompt for a new email address and, if it is found, will continue at step 4. If not it will repeat step 3.
 - “Find by parent SSN”: The screen will prompt for a social security number and, if it is found, will continue at step 4. If not it will repeat step 3.
 - “Cancel” will return the user to the home screen.
 4. When the parent is found, enter all of the child’s information in the respective blank areas for name, date of birth, notes, and medications.
 5. Select the “Save” button to store the information or “Cancel” button to remove and go back to the home screen.
- Viewing classroom assignments:
 1. From the home screen, choose the option “Classroom Assignments”.
 2. Choose the particular teacher’s name from the list.
 3. The home view for that particular teacher will now be viewable. All teacher functionality will be available to use.
- Editing child’s information:
 1. Choose the “Search for Child” option from the home screen.
 2. Type in the child’s name and choose search.
 3. If there is more than one child with that name then it will display all of the possible results with their picture. Choose the appropriate child and edit any of the information that you need changed.
 4. Select the “Save” button to store the information or “Cancel” button to remove and go back to the home screen.
- Edit parent’s information:
 1. From the home screen, scroll through the options and choose “Edit Parent Information”.
 2. A pop up dialog will ask “Please enter parent’s email address: “ and type in the appropriate information.
 3. If the email address is not found it will display “Cannot find email address: “ and three options will appear, “Try different email address” or “Find by parent SSN” or “Cancel”.
 - “Try different email address”: The screen will prompt for a new email address and, if it is found, will continue at step 4. If not it will repeat step 3.

- “Find by parent SSN”: The screen will prompt for a social security number and, if it is found, will continue at step 4. If not it will repeat step 3.
- “Cancel” will return the user to the home screen.
- 4. When the parent is found, edit all of the necessary information.
- 5. Select the “Save” button to store the information or “Cancel” button to remove and go back to the home screen.

Teacher Functions

- Moving a child to another classroom:
 1. Click on the appropriate child’s picture from the home screen.
 2. Choose the option to “Move to another classroom”.
 3. Then a list of all other classrooms and teachers will be available to choose from. Choose the classroom that the child needs to move to.
 4. Return back to the home screen and the child will no longer be available and will be available for the other teacher to view.
- Sending a note to the entire class’ parents:
 1. From the home screen, choose the action overflow button in the upper right corner.
 2. Select “Notify All Parents” and a new screen will appear with a title and message.
 3. Enter a title for the message and a brief, limit to 145 characters, message to be sent as a push notification. If the message needs to be longer, then follow the same steps as 1 and 2, but choose the “Send Class Email” option.
 4. After you enter all the message information, choose send to finish or cancel if you need to erase everything and start over.
- Sending a notification to a single child’s parent:
 1. From the home screen, choose the appropriate child by touching on the picture.
 2. The next view will have all of the child’s information. Scroll down to the option “Notify Parent” and touch the option.
 3. Enter a title and message, limit to 145 characters. If the message needs to be longer, then follow the same steps as 1 and 2, but choose the “Send Parent Email” option.
 4. After you enter all the message information, choose send to finish or cancel if you need to erase everything and start over.
- Viewing child’s information:
 1. From the home screen, choose the appropriate child by touching on the picture.
 2. This will pull up a view of the child’s picture, full name, date of birth, notes from the parent, etc. There will be options to choose from below the child’s information.
 3. If you need to see more information, touch the information section and it will bring up more details that is stored in the system.
- Adding a note to a specific child: (about that day’s activities and what happened)
 1. Every day the teacher can add their notes about what activities happened or any other pertinent details that took place that day.
 2. From the home screen, choose the appropriate child by touching on the picture.

3. Scroll down to the option “Daily Notes”.
4. Enter information into the Notes portion. It can be up to 350 characters and after you enter everything into the notes section press save. If you want to end and not save any changes press cancel.

Parent Functions

- Adding notes to a child:
 1. From the home screen select “Add Note”, from the navigation drawer.
 2. Then choose which child you want to add a note onto.
 3. Choose a category of the type of note you are adding.
 4. Fill in the note you want to add in the box labeled “Notes”.
 5. Afterwards, touch the send button to complete or cancel to go back and not save anything typed.
- Viewing current notes, provided by the day care, for a child:
 1. From the home screen select the child, from the action overflow button, you want to view.
 2. This will display all notes added from day care personnel for that child.
- Changing personal information
 1. From the home screen, touch the navigation drawer and choose “Account Information”.
 2. This displays all the current information for the parent and children. At the top right corner, select the action overflow button and choose “Edit Account Information”.
 3. The next screen will allow you to edit all of the information listed under Account Information.
 4. After completing all the necessary edits, touch the button at the bottom that says “Save”.
- Signing children in or out:
 1. From the main lobby access terminal, tap the NFC tag with NFC enabled Android phone to activate the Sign In/Out pop up dialog box.
 2. All of the parent’s children will be listed with pictures and next to the pictures is an In/Out switch.
 - The most recent activity that took place is the part of the In/Out switch that will be highlighted. For example, if the child is being signed in then the “out” part of the switch will be highlighted.
 3. Choose the correct side of the switch to activate a sign in or out. If the parent is signing in/out more than one child, the top will have an all button for both the in and out sides, so that they can change all the switches.
 4. Once the choices have been made, click the send button at the bottom of the dialog box.
 5. A toast message will appear notifying if the action was properly recorded with “Sign In Complete” or “Sign Out Complete”.
- Signing one child in or out:
 1. From the home screen, touch the child from the action overflow button you want to sign in or out
 2. Touch the navigation drawer and select “Sign In/Out”.
 3. It will pop up a dialog box and choose to “Sign In” or “Sign Out”.

4. After you have chosen the option, it will say either “Sign In Complete” or “Sign Out Complete”.
 5. If you have chosen to sign out, but do not have a sign in on record for that day then it will display “Must sign in first”. If so, then repeat steps 1 through 4.
 6. If you have chosen to sign in, but already have a sign in on record for that day then it will display “Already signed in”. If this displays, repeat steps 1 through 4.
- Viewing child’s location:
 1. From the home screen, touch the child from the action overflow button you want to view where they are currently located in the day care.
 2. From the home screen, the news feed will contain only notes and updates related to that specific child. If there has been a change of location, it will show up on the feed.

Appendix B - Group Log

<Please include here all the minutes from your group meetings, your group activities, and any other relevant information that will assist the Teaching Assistant to determine the effort put forth to produce this document>