
Software Requirements Document for [SmartLife]

TEAM: SD3

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Version	Date	Author	Change
0.1		SM	
1.0	5/1	DM	Use Cases added
1.1	5/2	XW	FlowChart
1.2	5/7	WP	Screen sketch and use cases added

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1 Introduction

1.1 PURPOSE

The purpose of this document is to establish how the application should interact with the end user, and establish all application requirements functional, and non functional. Once finalized, this document will state what must be accomplished for the application to be considered finished.

1.2 SCOPE

This SRS covers a number of potential use cases that users may encounter, as well as an overview of the project and its intended uses. It also includes information on the project's UI sketches, but the primary purpose is to give detailed descriptions of anticipated use cases.

1.3 DEFINITIONS, ACRONYMS, ABBREVIATIONS

Term	Description
observer user	He can manage the alarm settings of normal users
normal user	His alarm can be set by the observer users
Alarm type	The way that user choose to wake them up

1.4 REFERENCES

1.5 OVERVIEW

Our app SmartLife will help everyone improve their daily schedule. In this app, we would like to have an alarm setting and calendar setting that allows all the observers and normal users to set the alarm or edit the calendar schedule. Observers and normal users are able to set an alarm or edit calendar schedule to themselves. Observers also are able to set the alarm or edit calendar to their users, arrange their tasks.

2 Overall Description

Some people may experience a hard time when they trying to wake up from the bed. This application provides some special alarms that force people to do some activity in the morning to help them wake up. Moreover, this application also helps people to organize their time. SamrtLife provide event calendar so that people could schedule their event of a day. Also, we allow observer user to set up calendar events or alarm for the normal users.

2.1 PRODUCT PERSPECTIVE

SmartLife has two major parts:

One is the alarm parts, which helps people to wake up in the morning by forcing them to do some activities.

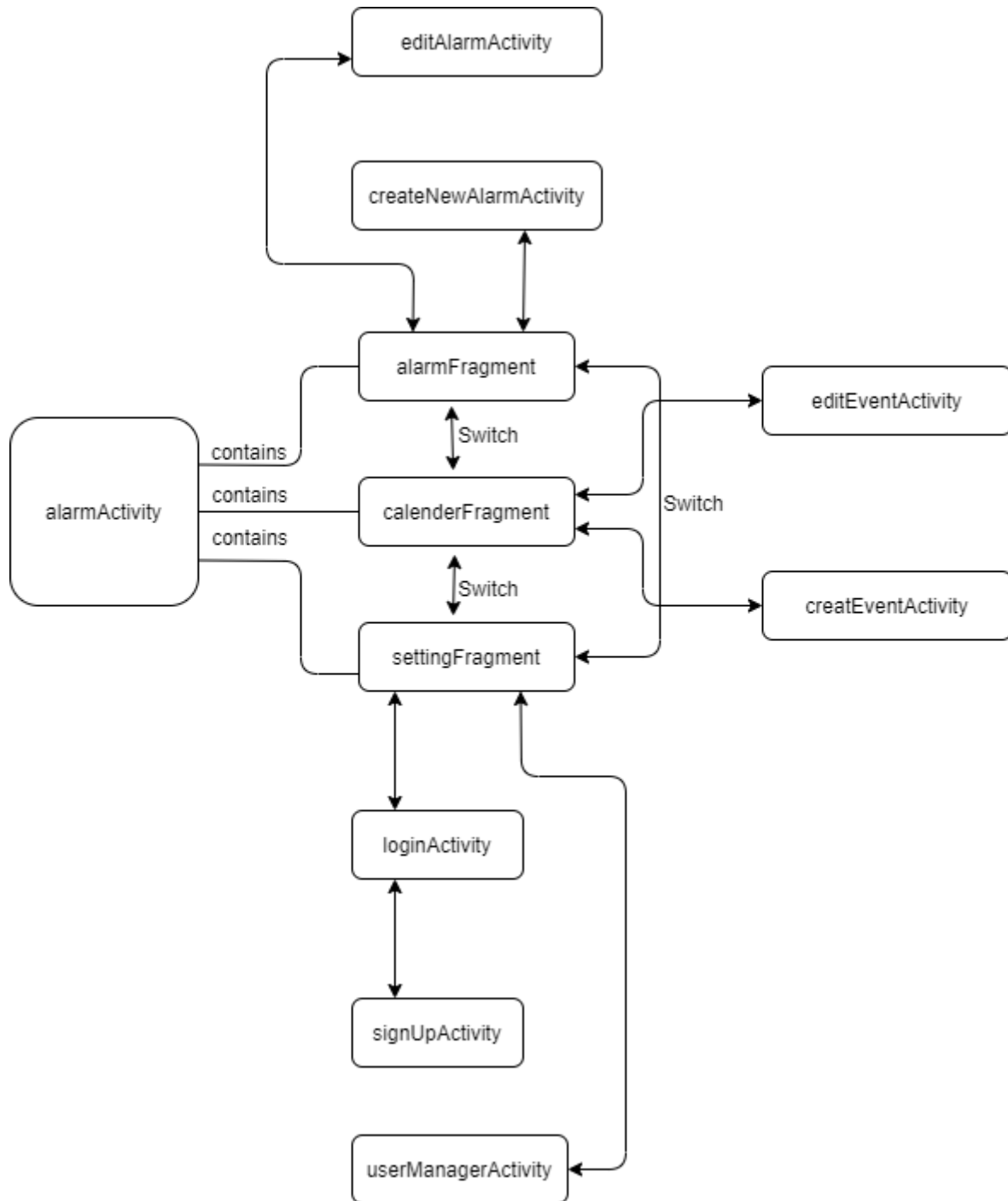
The other one is Event Calendar, which help people to organize their time and set up memo for themselves.

We also provide online service so that the observer users(parents) could set up alarm for normal user(children).

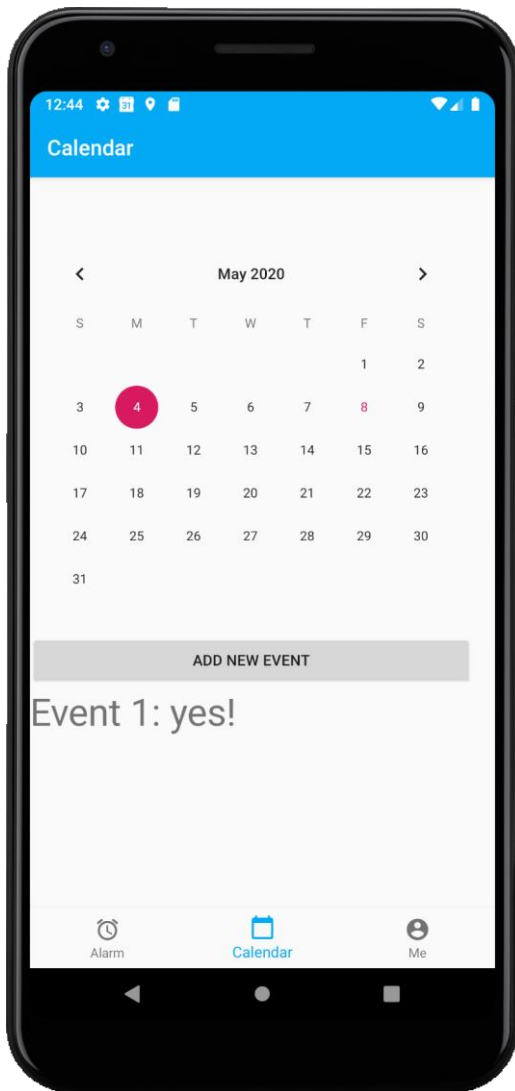
2.1.1 Concept of Operations

The project is based on android software. It provides offline and online services. When the user is offline, it lets the customer set the local alarm and set the calendar. Once the user logs in, the observer user will be able to set the alarm and calendar for normal users.

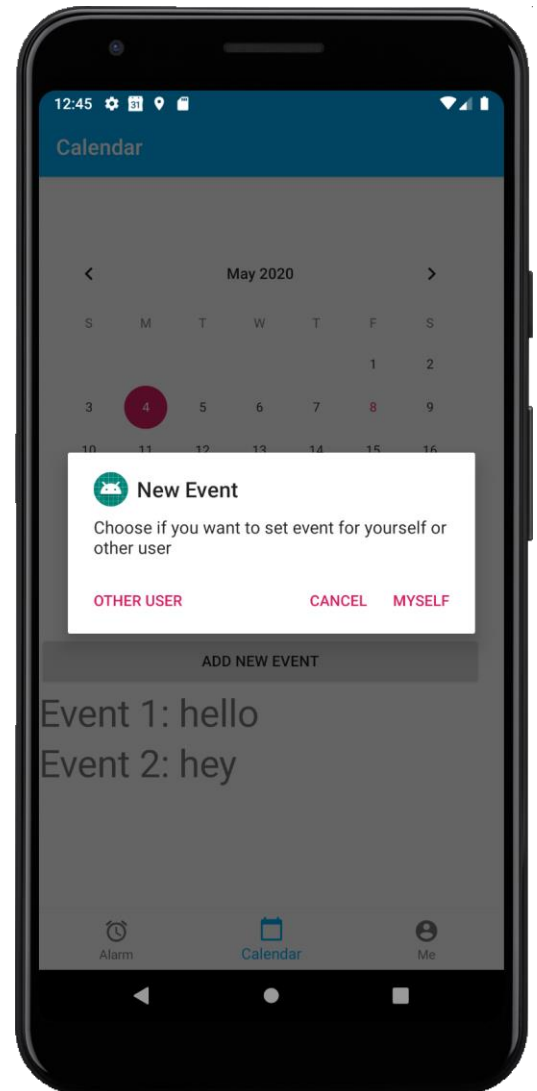
2.1.2 Major User Interfaces

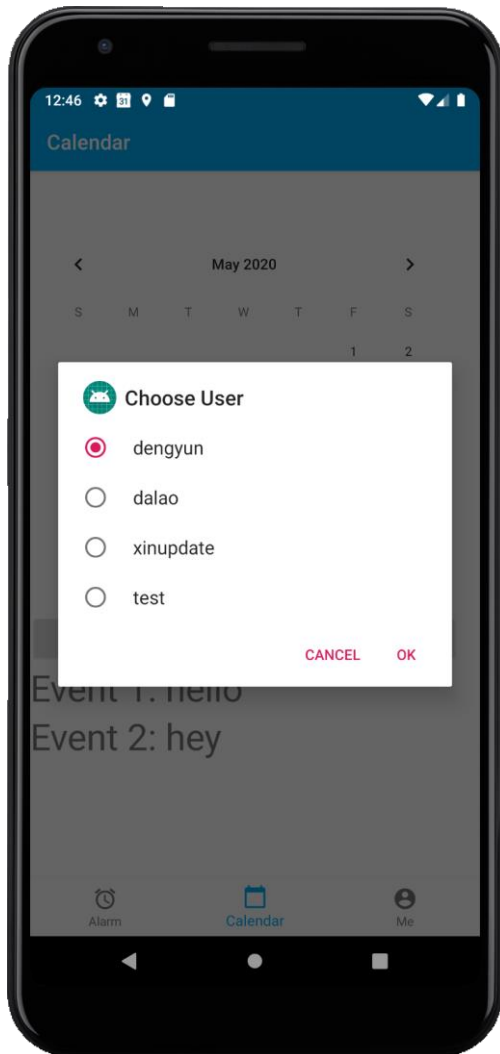


2.1.2.1 Example Screenshot and description

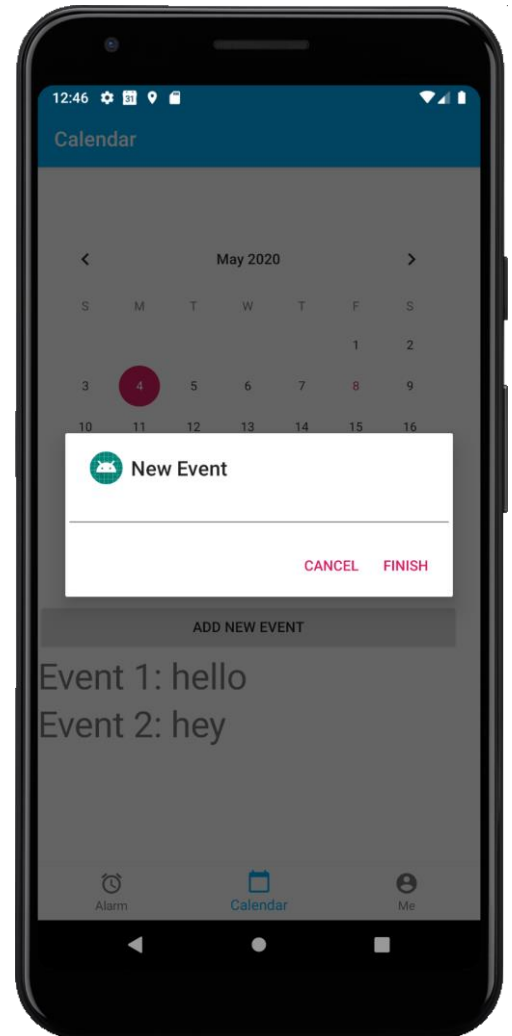


This is the calendar view for users. Users can set event even if they did not log in. After observer logged in, they also can set event for their family members.





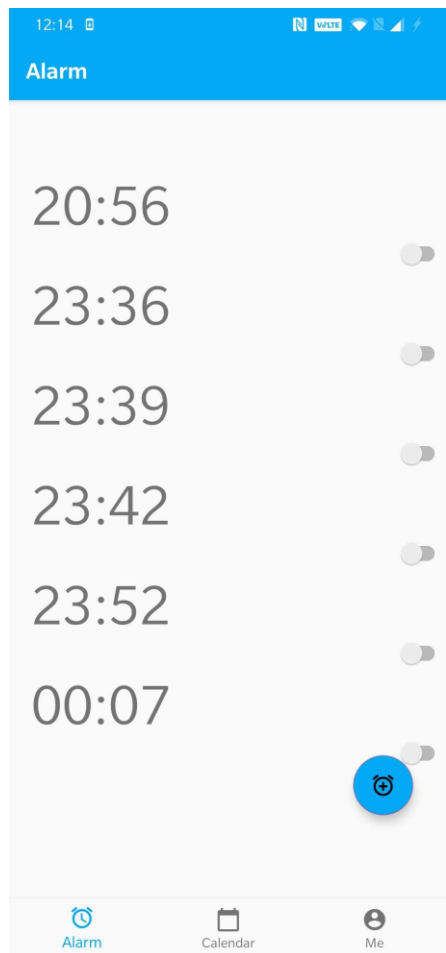
Users can choose who to set event and enter the event contains.



2.1.3 Hardware Interfaces

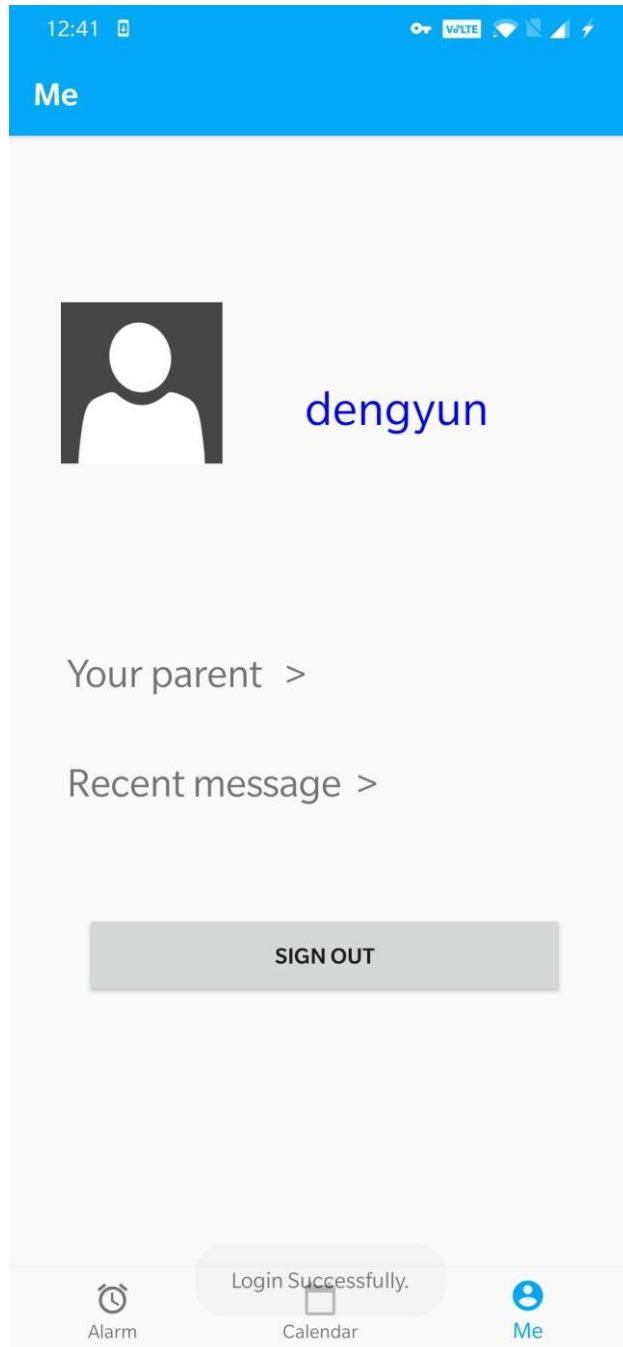
An Android phone is needed to use this application.

2.1.4 Software Interfaces



This is the main page of the application which shows a list of alarms that user created.

2.1.5 Communication Interfaces

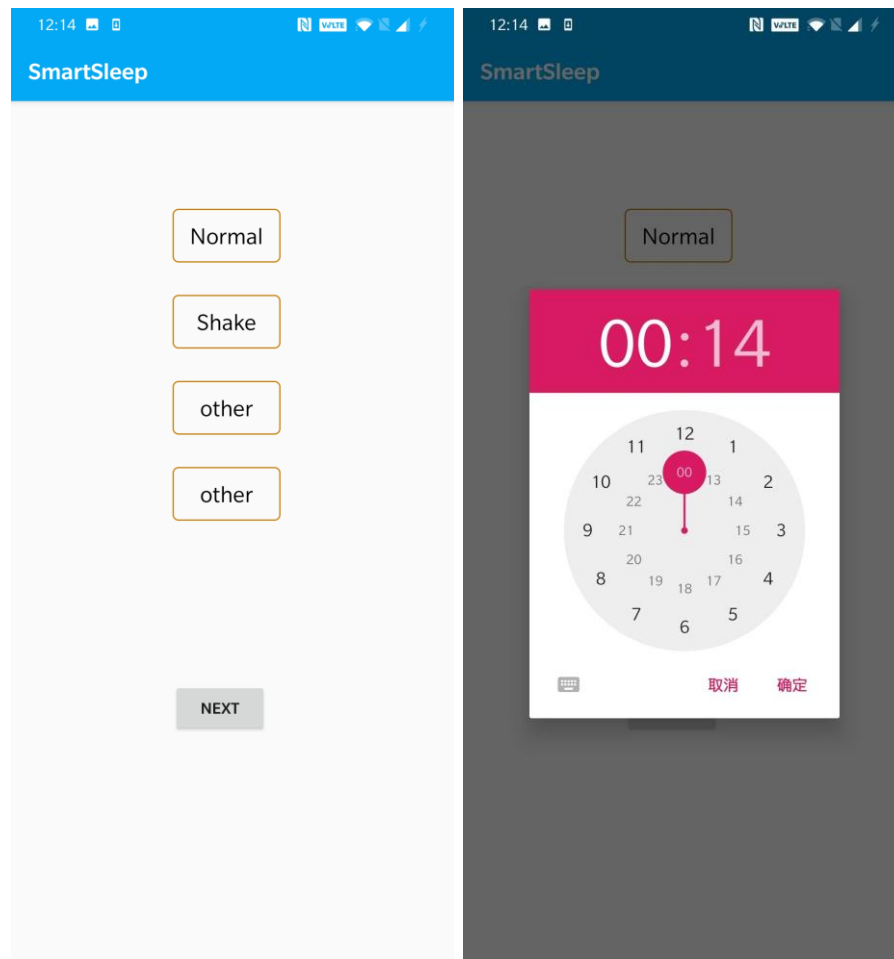


This is the page that after user login. It displays the personal information of the user. By clicking “Your parent” could see the observer users that linked to this account. By clicking “Recent message” could see the recent activities that made by your observer users. Such as, when the observer users created an alarm for you.

2.1.6 Memory Constraints

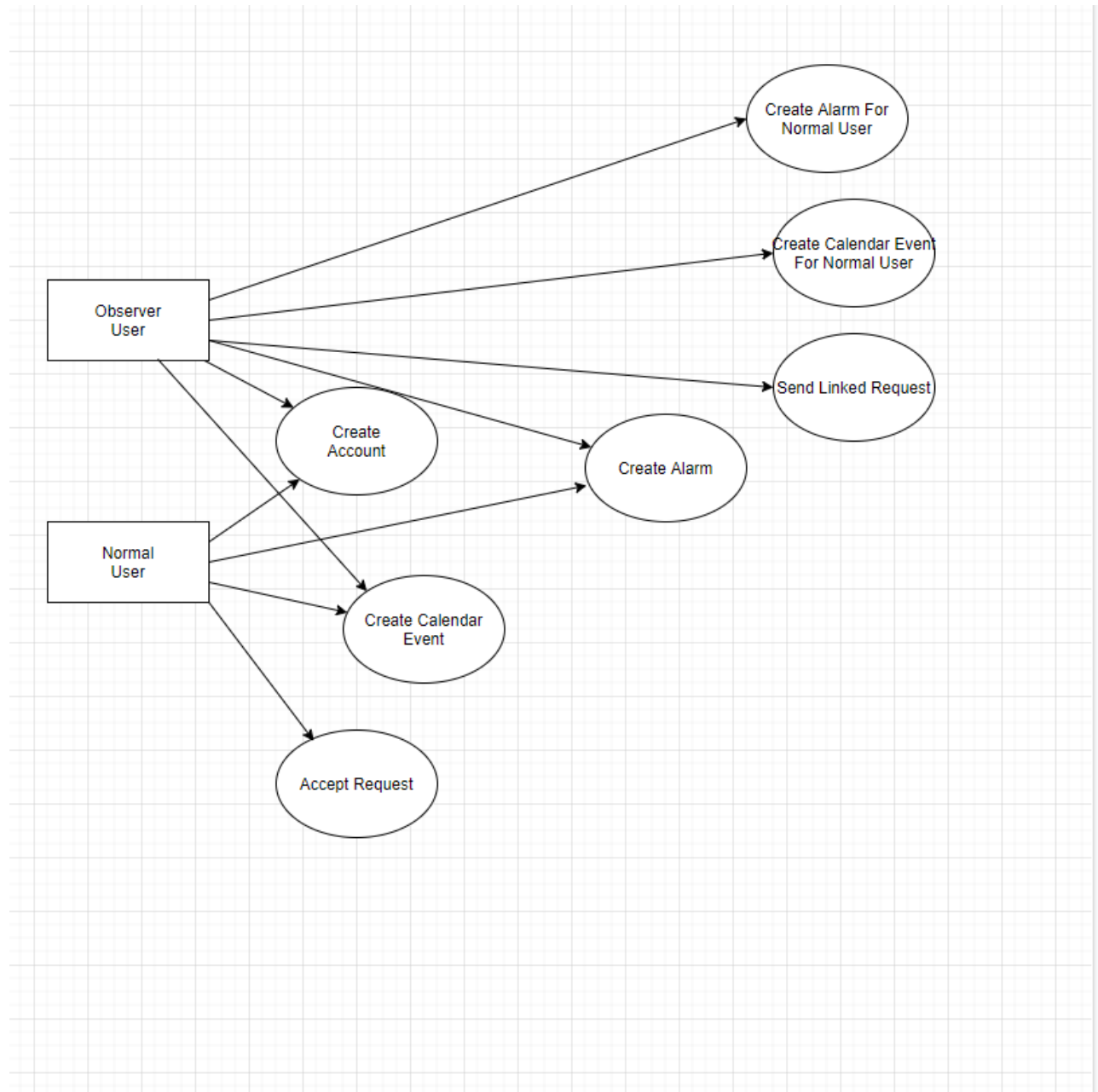
Alarms will be store in two places. For local alarms, alarms will be stored in local storage. For online alarm, they will be stored in the database.

2.1.7 Operations



For setting alarm in our application, before selecting time, users need to choose the type of alarms.

2.2 PRODUCT FUNCTIONS



These use cases describe the steps that a normal or an observer user would need to take in order to accomplish some common/basic tasks, such as creating an account or setting up an alarm.

USER CHARACTERISTICS

There are two types of users. One is the observer users, the other one is normal users.

Observer users could use the application to set up alarm and calendar event for normal users remotely.

Normal users could set up alarms and calendar events for themselves. Also, the calendar events could be stored online.

2.2.1 UC-0

Normal Users set up alarm from themselves. (User goal / Normal User)

Main scenario:

1. Normal user clicks add button to the set up alarm page.
2. The linked page will show different alarm types for users.
3. Normal users choose the type they want to use for waking them up.
4. The application now displays a clock for user to set the time
5. After setting up the time, the application would create a pending intent in the system.
6. When the time is up, the pending intent will start a ringing activity base on what type of alarm that user chosen before.
7. The user needs to do the activity they choose to shut down the alarm.

2.2.2 UC-1

“Setting up alarm for normal user” (User Goal / Observer User)

Main scenario:

1. Observer user click the add button.
2. The application will ask observer if they are setting up the alarm for normal users.

3. The observer user chooses yes then go to the alarm set up page.
4. The linked page will show different ways of alarm type.
5. The observer user chooses the alarm type.
6. The application will display a clock for observer user to choose the time for the alarm.
7. The alarm is set for normal users.

Extensions:

3.a If the observer user chooses to set up alarm for themselves not the normal users.

3.a1. The observer could set up alarm like the way in UC – 0.

2.2.3 UC-2

"Login/Sign Out" (User goal / All Users)

Main scenario:

1. When a user wants online service, go to Me Fragment.
2. The user clicks on sign in button.
3. The button link to a login activity page.
4. The login page will ask user to input their email address and password for login.
5. Once the email match will the password on the server, login successfully.

2.2.4 UC-3

"Create Account" (User goal / All users)

Main scenario:

1. A user wants to create an account to use online service.
2. The user clicks on Me Fragment which lead the user to login activity page.
3. There is a button for registration, this button will be linked to register activity page.
4. The linked page will ask user to input some information (username, user type, gender, password, email address.)
5. Once all the information is correct (email address is not conflict with the exist account on

the server and password confirmation correct), the account created successfully.

6. Register page destroyed and back to login page.

2.2.5 UC-4

“Send Relationship Request” (User goal / Observer User)

Main Scenario:

1. An observer user wishes to link to a normal user account.
2. The user goes to Me Fragment and clicks on “Your Family” tag.
3. This tag is linked to a page.
4. The linked page has a add button which allows the observer user to search account by email address.
5. Click “send” to send relationship request.

2.2.6 UC-5

“Accept or Reject a Relationship Request” (User goal / Normal User)

Main Scenario:

1. A normal user wishes to accept or reject a relationship request.
2. The user clicks on Me Fragment and clicks on “Your Family” tag.
3. The tag is linked to a page.
4. The linked page will display the pending request that sent from other observer users.
5. The normal user clicks “accept” to successfully build relationship between the normal user and the observer user.

Extensions:

- 5.a. If the normal clicks “reject”, the request will be cancelled and disappear from the page.

2.2.7 UC-6

“Set Event for themselves” (User Goal / all users)

Main Scenario:

1. Users can set event for themselves if they did not log in.
2. After they logged in, their event will be saved in database and can be synchronized.

2.2.8 UC-7



“Set event for family members ” (User Goal / Observers)

Main Scenario:

1. Observers can add event for their family members.
2. Observers can add event for one family member at a time. A window will pop up and the observer can choose which member he or she want to set event for.

2.3 CONSTRAINTS

We are using volley and database to exchange the information. The database stored the alarms will conflict with the alarms that set in the local.

2.4 ASSUMPTIONS AND DEPENDENCIES

We are assuming that users are using android devices so that they could run this application.