Fine_Kindergarten Project

Use Case Specification

Version <~~3~~4.0>

By Team FineApple

Revision History

Date	Version	Description	Author
<10/22/22>	<1.0>	First draft	김민규
<10/23/22>	<2.0>	Write details	~~All teammates~~ 김민규, 김민수, 이정중, 임주혁
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Use Case Specification

1. Introduction

1.1 Use Case Diagram
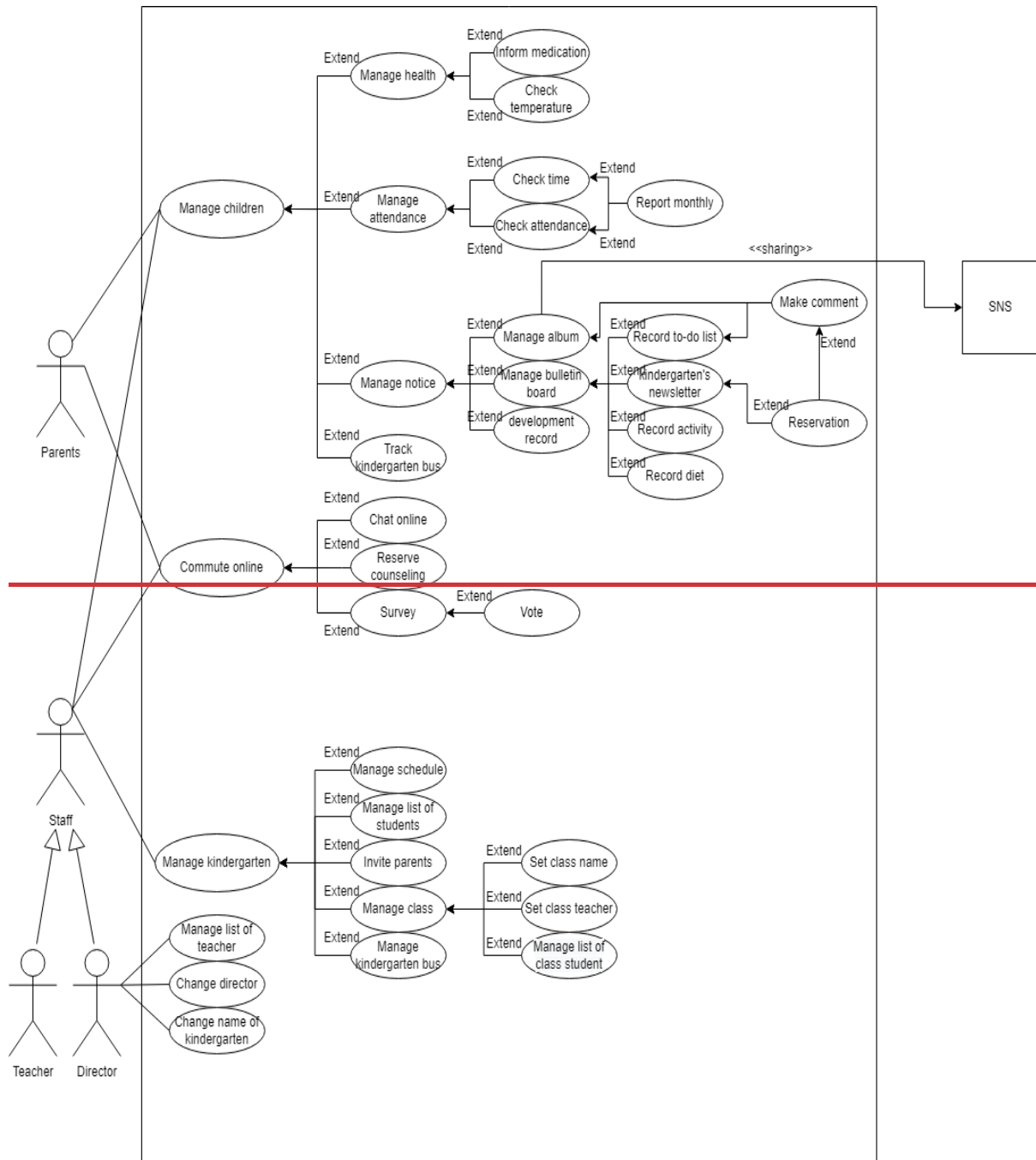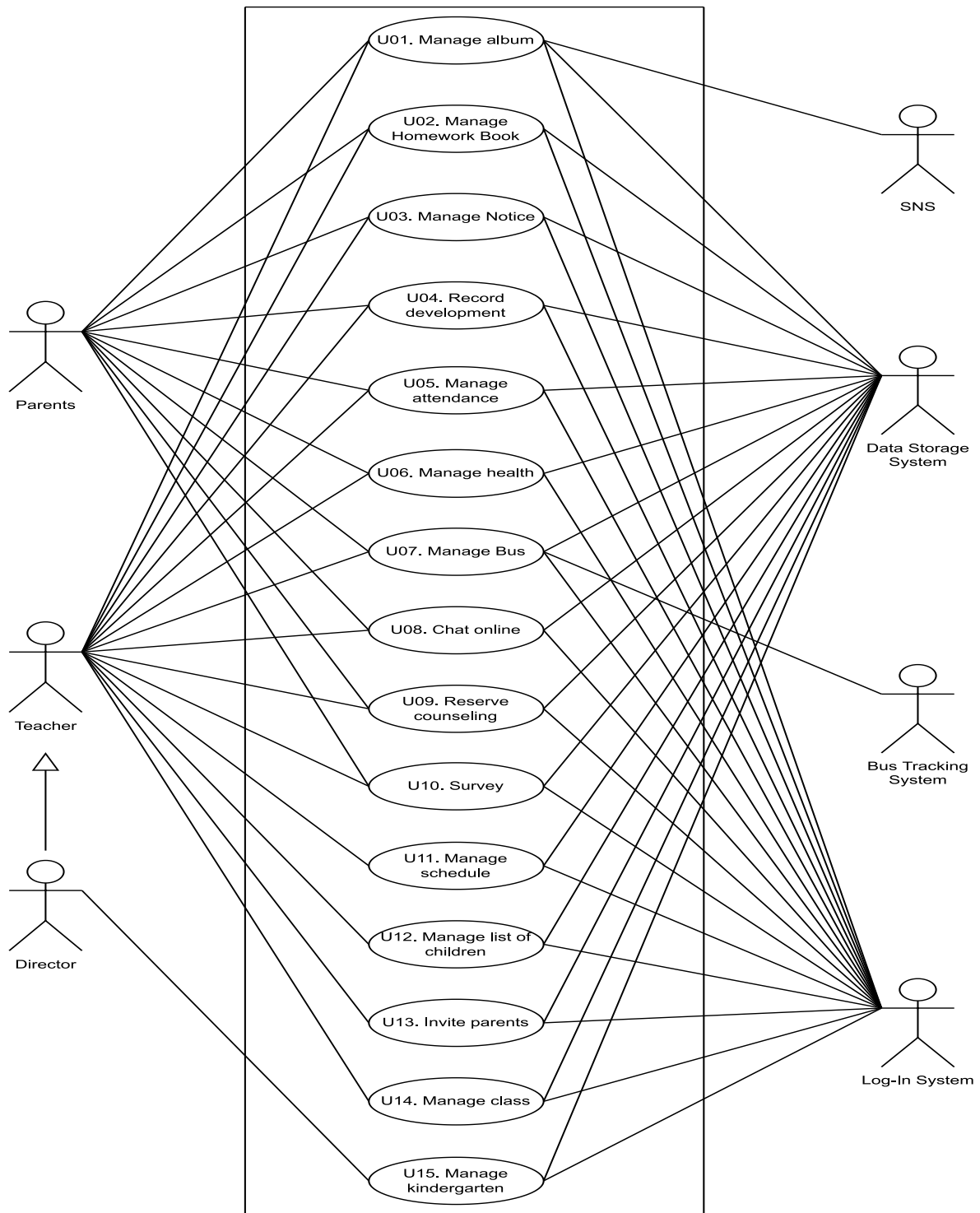
1.2 ~~Use Case Identifier~~

~~Identifier~~	~~Actor~~	~~Description~~
~~UC-00~~	~~Parents, Staff, Director~~	~~Select Function (Launching System)~~
~~UC-01~~	~~Parents, Staff~~	~~Manage Children~~

UC-02	Parents, Staff	Commute Online
UC-03	Staff	Manage Kindergarten
UC-MC01	Parents, Staff	Manage Health
UC-MC02	Parents, Staff	Manage Attendance
UC-MC03	Parents, Staff	Manage Notice
UC-MC04	Parents, Staff	Track Bus
UC-CO01	Parents, Staff	Chat Online
UC-CO02	Parents, Staff	Reserve Counseling
UC-CO03	Parents, Staff	Survey
UC-MK01	Staff	Manage Schedule
UC-MK02	Staff	Manage List of Students
UC-MK03	Staff	Invite Parents
UC-MK04	Staff	Manage Class
UC-MK05	Staff	Manage Kindergarten Bus
UC-MH01	Parents, Staff	Inform Medication
UC-MH02	Parents, Staff	Check Temperature
UC-MA01	Parents, Staff	Check Time
UC-MA02	Parents, Staff	Check attendance
UC-MN01	Parents, Staff	Manage Album
UC-MN02	Parents, Staff	Manage Bulletin board
UC-MN03	Parents, Staff	Development Record
UC-SV01	Parents, Staff	Vote
UC-MC01	Staff	Set Class Name
UC-MC02	Staff	Set Class Teacher
UC-MC03	Staff	Manage List of Class Student
UC-RM01	Parents, Staff	Report Monthly
UC-MB01	Parents, Staff	Record To-do List
UC-MB02	Parents, Staff	Record Kindergarten's Newsletter
UC-MB03	Parents, Staff	Record Activity
UC-MM01	Parents, Staff	Make Comment
UC-RV01	Parents, Staff	Reservation
UC-AL01	Director	Manage List of Teachers
UC-AL02	Director	Change Director
UC-AL03	Director	Change Name of Kindergarten

1.3 Glossary

SRS	Software Requirement Specification

SNS	Social Network Service
FAQ	Frequently Asked Questions
QnA	Question and Answer
Director	Head of kindergarten

2. Use Case Model

~~2~~U01: Manage Album

U01.1 ~~UC-00: Select Function~~

2.1.1 ~~Brief~~ Description

~~This use case describes actor's selection of system's functions.~~

~~<Functions>~~

~~UC-01~~ User saves image and text in album.

U01.2 Associated Actors

Parents: Actor who views album.

Teacher: Actor who updates album.

Data Storage System: Service which saves album data.

SNS: Service which shares the album data.

Log-in System: Service which distinguishes users. (R2.1)

U01.3 Basic Flow

1. Teacher selects 'album' option.

2. The user uploads photo and text to system.

3. The system saves album data to Data Storage System.

4. The user selects another user to give access album.

5. The system saves access data to Data Storage System.

U01.4 Alternative Flows

1. User selects 'album' option.

2. The system shows photo and text data from Data Storage System.

3. The user views album data.

4. The user selects 'sharing' option.

5. The system makes sharing photo data to upload SNS from Data Storage System.

6. The user selects 'download' option.

7. The system makes downloadable photo file from Data Storage System.

U01.5 Precondition

User must be logged into the system.

U01.6 Postcondition

The album data is stored in the Data Storage System.

User shares album via SNS.

User downloads photo file from album.

U01.7 Linked Requirements

R4.1, R4.2, R4.3, R4.4, R4.5, R4.6

U02: Manage homework book

U02.1 Description

User writes homework book.

User reads homework book.

U02.2 Associated Actors

Parents: Actor who wants to read homework book.

Teacher: Actor who wants to write homework book.

Data Storage System: Service which stores homework book information.

Log-in System: Service which distinguishes user.

U02.3 Basic Flow

1. Teacher selects 'write homework book' option.

2. The system retrieves homework book data from Data Storage System.

3. User inputs homework data.

4. The system saves homework data to Data Storage System.

U02.4 Alternative Flows

1. User selects data to view homework book.

2. The system retrieves selected data's homework book data from Data Storage System.

3. The user views homework book.

U02.5 Precondition

User must be logged into the system.

U02.6 Postcondition

The homework book data is stored in the Data Storage System.

U02.7 Linked Requirements

R3.4

U03: Manage notice

U03.1 Description

User makes kindergarten's notice.

User views kindergarten's notice.

U03.2 Associated Actors

Parents: Actor who views kindergarten's data.

Teacher: Actor who updates kindergarten's data.

Data Storage System: Service which save kindergarten's notice data.

Log-in System: Service which distinguishes users.

U03.3 Basic Flow

1. Teacher selects 'new notice' option.

2. The system gets notice data from Data Storage System.

3. User inputs notice data.

4. The system saves new notice data to Data Storage System.

U03.4 Alternative Flows

1. User selects 'read notice' option.

2. The system gets notice data from Data Storage System.

3. User views kindergarten's notice.

U03.5 Precondition

User must be logged into the system.

U03.6 Postcondition

The notice data is stored in the Data Storage System.

U03.7 Linked Requirements

R1.4, R3.4

U04: Record Development

U04.1 Description

User records children's development data.

U04.2 Associated Actors

Parents: Actor who views child's development data.

Teacher: Actor who records child's development data.

Data Storage System: Service which saves development data.

Log-in System: Service which distinguishes users.

U04.3 Basic Flow

1. Teacher selects 'development' option.

2. The system gets children list from Data Storage System.

3. User selects one of the children to record development data.

4. The system gets development data from Data Storage System.

5. User inputs child's development data.

6. The system stores updated development data to Data Storage System.

U04.4 Alternative Flows

1. Parents selects 'development' option.

2. The system gets development data from Data Storage System.

3. User views development data of user's child.

U04.5 Precondition

User must be logged into the system.

U04.6 Postcondition

The development data is stored in the Data Storage System.

U04.7 Linked Requirements

R1.4, R1.8

U05: Manage Attendance

U05.1 Description

User records child's attendance state.

U05.2 Associated Actors

Parents: Actor who views attendance record.

Teacher: Actor who records attendance record.

Data Storage System: Service which saves child's attendance information.

Log-in System: Service which distinguishes users.

U05.3 Basic Flow

1. The system retrieves data of children from Data Storage Service.

2. Teacher selects date to input.

3. User inputs child's attendance state, attendance time, time to leave kindergarten.

4. The system saves input data in the Data Storage System.

5. User selects date to view data.

6. The system shows attendance data from the Data Storage Service.

U05.4 Alternative Flows

1. When user selects 'monthly report' option.

- The system makes attendance monthly report form Data Storage Service.

U05.5 Precondition

User must be logged into the system.

U05.6 Postcondition

The attendance information is stored in the Data Storage Service.

U05.7 Linked Requirements

      R1.1, R1.2, R1.3

U06: Manage Health

U06.1 Description

User records temperature of child.

User records dosing information.

User records diet information.

U06.2 Associated Actors

Parents: Actor who views temperature of child and records dosing information.

Teacher: Actor who records temperature of child and views dosing information.

Data Storage System: Service which stores temperature and dosing information.

Log-in System: Service which distinguishes users.

U06.3 Basic Flow

1. The system retrieves child data from Data Storage System.

2. Teacher inputs temperature of child and checks dosing information.

3. The system stores temperature information in the Data Storage System.

4. Teacher inputs diet information.

5. The system stores diet information in the Data Storage System.

U06.4 Alternative Flows

1. Parents selects date to view temperature of child.

2. The system retrieves child data from Data Storage System.

3. Parents updates child's dosing information.

4. The system saves changed child's dosing information in the Data Storage System.

5. Parents selects date to view diet of kindergarten.

6. The system shows diet information from Data Storage System.

U06.5 Precondition

User must be logged into the system.

U06.6 Postcondition

The temperature information is stored in the Data Storage Service.

The dosing information is stored in the Data Storage Service.

The daily diet information is stored in the Data Storage Service.

U06.7 Linked Requirements

R1.5, R1.6, R1.7, R1.9

U07: Manage Bus

U07.1 Description

1. User updates information of bus.

2. User tracks location of bus.

U07.2 Associated Actors

Parents: Actor who wants to track location of bus.

Teacher: Actor who wants to update bus's information and track bus location.

Data Storage System: Service which stores bus's information.

Log-in System: Service which distinguishes users.

Bus Tracking System: Service which transmits location of the bus.

U07.3 Basic Flow

1. Teacher selects 'Manage Bus' option.

2. The system retrieves bus information from Data Storage System.

3. The user inputs bus data to change.

4. The system saves changed data to Data Storage System.

5. User selects 'Bus tracking' option.

6. The system retrieves real-time bus location from Bus Tracking System.

U07.4 Alternative Flows

Not Applicable.

U07.5 Precondition

User must be logged into the system.

U07.6 Postcondition

The information of bus is stored in the Data Storage System.

User tracks real-time location of bus.

U07.7 Linked Requirements

R6.1, R6.2, R6.3

U08: Chat Online

U08.1 Description

User makes online real-time chatting with other users.

U08.2 Associated Actors

Parents: Actor who chats with other users online.

Teacher: Actor who chats with other users online.

Data Storage System: Service which stores and retrieves chat online data.

Log-in System: Service which distinguishes users.

U08.3 Basic Flow

1. User selects 'chat online' option.

2. The system retrieves users list from Data Storage System.

3. User selects another user to chat.

4. The system retrieves chatting history from Data Storage System.

5. User chats online.

6. The system saves chatting history to Data Storage System.

U08.4 Alternative Flows

1. When user makes typo during chatting.
   - The system corrects typo immediately.

U08.5 Precondition

User must be logged into the system.

U08.6 Postcondition

The chatting history is stored in the Data Storage System.

User makes online chatting.

U08.7 Linked Requirements

R3.1, R3.2, R3.3, R3.5

U09: Reserve Counseling

U09.1 Description

User makes counseling reservation.

User checks reservation history.

U09.2 Associated Actors

Parents: Actor who makes counseling reservation.

Teacher: Actor who checks reservation history.

Data Storage System: Service which stores and retrieves reserve counseling data.

Log-in System: Service which distinguishes users.

U09.3 Basic Flow

1. Teacher selects 'reserve counseling' option.

2. The system retrieves counseling history from Data Storage System.

3. User replies to user who made counseling reservation.

4. The system updates counseling applied information to Data Storage Service.

5. The information of counseling is stored in Data Storage Service.

U09.4 Alternative Flows

1. Parents selects 'reserve counseling' option.

2. The system retrieves list of teachers from Data Storage System.

3. User selects teacher to reserve counseling.

4. User inputs contents of counseling.

5. The system saves information of making counseling reservation to Data Storage Service.

U09.5 Precondition

User must be logged into the system.

U09.6 Postcondition

The information of counseling is stored in Data Storage Service.

U09.7 Linked Requirements

R3.2, R3.3, R5.1

U10: Survey

U10.1 Description

User makes survey.

User responds to the survey.

U10.2 Associated Actors

Parents: Actor who responds to the survey.

Teacher: Actor who makes the survey.

Data Storage System: Service which stores and retrieves survey data.

Log-in System: Service which distinguishes users.

U10.3 Basic Flow

1. Teacher select 'Survey' option.

2. The system shows list of survey from Data Storage System.

3. User selects survey already made.

   3-1. User checks the content of survey.

4. User selects 'survey making' option.

   4-1. The system retrieves all user list from Data Storage Service.

   4-2. User inputs survey title, contents of survey, list of users to respond.

   4-2. The Data Storage System stores information of survey.

U10.4 Alternative Flow

1. Parents select 'Survey' option.

2. The system shows list of surveys from Data Storage System.

3. User selects one of the surveys.

4. The system loads contents of survey from Data Storage System.

5. User responds to the survey.

6. The system saves survey data to Data Storage System.

7. When parents select 'survey making' option

-The system informs invalid user error.

U10.5 Precondition

User must be logged into the system.

U10.6 Postcondition

The information of survey is stored in Data Storage Service.

U10.7 Linked Requirements

R3.7, R3.8

U11: Manage Schedule

U11.1 Description

User manages schedule of kindergarten.

U11.2 Associated Actors

Teacher: Actor who needs to manage kindergarten's schedule.

Data Storage System: Service which stores kindergarten's data.

Log-in System: Service which distinguishes users.

U11.3 Basic Flow

1. User selects 'manage schedule' option.

2. The system retrieves kindergarten's schedule data from Data Storage System.

3. User inputs schedule information to be changed.

4. The system saves data to Data Storage System.

U11.4 Alternative Flow

Not Applicable.

U11.5 Precondition

User must be logged into the system as teacher.

U11.6 Postcondition

The changed schedule is stored in Data Storage Service.

U11.7 Linked Requirements

R2.8

U12: Manage List of Children

~~UC 02: Commute Online~~

~~UC 03~~**U12.1 Description**

User manages list of children of kindergarten.

U12.2 Associated Actors

Teacher: Actor who needs to manage kindergarten's whole students list.

Data Storage System: Service which stores child's data.

Log-in System: Service which distinguishes users.

U12.3 Basic Flow

1. The system shows the items for managing the kindergarten children list.

2. User selects what wants to change.

3. The system retrieves child list information from Data Storage System.

4. User inputs child information to change.

5. The system stores changed information in the Data Storage Service.

U12.4 Alternative Flow

Not Applicable.

U12.5 Precondition

User must be logged into the system as teacher.

U12.6 Postcondition

The changed child's data is stored in Data Storage System.

U12.7 Linked Requirements

R2.6

U13: Invite Parents

U13.1 Description

User invites another user.

U13.2 Associated Actors

Teacher: Actor who needs to invite parents.

Data Storage System: Service which stores invitation information.

Log-in System: Service which distinguishes users.

U13.3 Basic Flow

1. The system shows 'Invite Parents' option.

2. User selects 'Invite Parents' option.

3. The system shows blank to input parent's mobile number.

4. User inputs mobile number, parent's name, child's name of target parent.

5. The system sends message to the number entered.

6. The Data Storage System saves invitation information.

U13.4 Alternative Flow

Not Applicable.

U13.5 Precondition

User must be logged into the system as teacher.

U13.6 Postcondition

The invitation data is stored in Data Storage System.

U13.7 Linked Requirements

R2.7, R3.6

U14: Manage Class

U14.1 Description

User manages class of kindergarten.

U14.2 Associated Actors

Teacher: Actor who needs to manage class.

Data Storage System: Service which stores kindergarten's data.

Log-in System: Service which distinguishes users.

U14.3 Basic Flow

1. The user selects 'manage class' option.

2. The system retrieves class information from the Data Storage System.

3. User inputs the information to be changed.

4. The system stores the information entered in the Data Storage System.

5. The system records using system time in the Data Storage System.

6. When kindergarten closed, the system shuts down.

U14.4 Alternative Flows

Not Applicable.

U14.5 Precondition

User must be logged into the system as teacher.

U14.6 Postcondition

The changed information is stored in Data Storage System.

U14.7 Linked Requirements

R2.4, R2.9, R7.1, R7.2, R7.3, R7.4, R8.1

U15: Manage Kindergarten

~~UC AL01: Manage List of Teachers~~

~~UC AL02: Change Director~~

~~UC AL03: Change Name of Kindergarten~~

2.1.2 Flow of Events

2.1.2.1 U15.1 Description

User can change the name of kindergarten.

User can manage the list of teachers.

User can change director of kindergarten.

U15.2 Associated Actors

Director: Actor who needs to change kindergarten's information.

Data Storage System: Service which stores information.

Log-in System: Service which distinguishes users.

U15.3 Basic Flow

~~2.~~1.~~2.1. A~~ The system shows ~~the user one~~options. (Options: change the name of ~~the functions.~~kindergarten, manage the list of teachers, change director of kindergarten)

~~2.~~1.~~2.1. B~~ ~~The user~~ User selects one of the ~~functions~~options.

2.1.2.23. The system retrieves information from the Data Storage System.

4. User inputs the information to be changed.

5. The system stores the information entered in the Data Storage System.

U15.4 Alternative Flows

2.1.2.2. A.1 When user is director, the system shows the actor function UC-AL01, UC-AL02, UC-AL03.

2.2.2.2. A.2 When user is director, the actor should select one of the functions, UC-AL01, UC-AL02, UC-AL03.

2.1.3 Pre-Conditions

2.1.3.1 User must log-in the system.

2.1.3.2 The system distinguishes users. (2.1.2.1 in SRS.)

2.1.4 Post-Condition

2.1.4.1 User select one of the functions.

2.1.5 Name of Extension Point

2.1.5.1 UC-01: Manage Children

2.1.5.2 UC-02: Commute Online

2.1.5.3 UC-03: Manage Kindergarten

2.1.5.4 UC-AL01, UC-AL02, UC-AL03

2.2 UC-01: Manage Children

2.2.1 Brief Description

This use case describes the functions of managing children.

<Functions>

UC-MC01: Manage Health

~~UC-MC02: Manage Attendance~~

~~UC-MC03: Manage Notice~~

~~UC-MC04: Track Bus~~

~~2.2.2 Flow of Events~~

~~2.2.2.1 Basic Flow~~

~~2.2.2.1. A   When user is staff.~~

~~2.2.2.1. A.1   When user selects UC-MC01.~~

~~2.2.2.1. A.1.1   User checks medicine child takes~~

~~2.2.2.1. A.1.2   User records child's temperature.~~

~~2.2.2.1. A.2~~   1. When user selects ~~UC-MC02~~'change the name of kindergarten' option at step 1 in basic flow.

~~2.2.2.1. A.2.1   User records time when child gets to~~   - The user inputs the name of kindergarten at step 4 in basic flow.

~~2.2.2.2. A.2.2   User records time when child leaves kindergarten.~~

~~2.2.2.1. A.2.3   User records child's attendance state.~~

-2.~~2.2.1. A.3~~   When user selects ~~UC-MC03~~'manage the list of teachers' option at step 1 in basic flow.

~~2.2.2.1. A.3.1   User manages album. (UC-MN01)~~

~~2.2.2.1. A.3.2   User manages bulletin board. (UC-MN02)~~

~~2.2.2.1. A.3.3   User writes child's development record.~~

~~2.2.2.1. A.4   When~~   - The user ~~selects UC-MC04.~~

~~2.2.2.1. A.4.1   User tracks bus's current location.~~

~~2.2.2.2 Alternative Flows~~

~~2.2.2.2. A~~ ~~When user is parents.~~

~~2.2.2.2. A.1~~ ~~When user selects UC MC01.~~

~~2.2.2.2. A.1.1~~ ~~User records medicine what user's child takes.~~

~~2.2.2.2. A.1.2~~ ~~User records how~~inputs the information to ~~take medicine.~~

~~2.2.2.2. A.1.3~~ ~~User checks temperature of user's child.~~

~~2.2.2.2. A.2~~ ~~When user selects UC MC02.~~

~~2.2.2.2. A.2.1~~ ~~User checks time when user's child gets to kindergarten.~~

~~2.2.2.2. A.2.2~~ ~~User checks time when user's child leaves kindergarten.~~

~~2.2.2.2. A.2.3~~ ~~User checks attendance state of user's child.~~

~~2.2.2.2. A.3~~ ~~When user selects UC MC03.~~

~~2.2.2.2. A.3.1~~ ~~User checks album. (UC MN01)~~

~~2.2.2.2. A.3.2~~ ~~User checks bulletin board. (UC MN02)~~

~~2.2.2.2. A.3.3~~ ~~User checks development record of user's child.~~

~~2.2.2.1. A.4~~ ~~When user selects UC MC04.~~

~~2.2.2.1. A.4.1~~ ~~User tracks bus's current location.~~

~~2.2.3 Pre Conditions~~

~~2.2.3.1 User selected UC 01~~change about teachers at ~~UC 00~~step 4.

~~2.2.4 Post Conditions~~

~~2.2.4.1 User select one of functions.~~

~~2.2.5 Name of Extension Point~~

~~2.2.5.1 UC MH01: Inform Medication~~

2.2.5.2 UC-MH02: Check Temperature

2.2.5.3 UC-MA01: Check Time

2.2.5.4 UC-MA02: Check Attendance

2.2.5.5 UC-MN01: Manage Album

2.2.5.6 UC-MN02: Manage Bulletin Board

2.2.5.7 UC-MN03: Development Record

2.3 UC-02: Commute Online

2.3.1 Brief Description

This use case describes the functions of commuting online.

<functions>

UC-CO01: Chat Online

UC-CO02: Reverse Counseling

UC-CO03: Survey

2.3.2 Flow of Events

2.3.2.1 Basic Flow

2.3.2.1. A   When user is staff.

2.3.2.1. A.1   When user selects UC-CO01.

2.3.2.1. A.1.1   User chats online with other users.

~~2.3.2.1. A.2~~   3. When user selects ~~UC-CO02~~'change director of kindergarten' option at step 1 in basic flow.

2.3.2.1. A.2.1   The system shows list of reserved counseling.

2.3.2.1. A.2.2   User replies to applications.

~~2.3.2.1. A.3~~ ~~When~~ - The user ~~selects UC-CO03.~~

~~2.3.2.1. A.3.1~~ ~~User uploads survey form includes title, purpose, date of end of survey.~~

~~2.3.2.2 Alternative Flows~~

~~2.3.2.2. A~~ ~~When~~inputs the information of another user ~~is parents~~to be next director at step 4.

~~2.3.2.2. A.1~~ 4. When user ~~selects UC-CO01~~inputs invalid information at step 4.
~~2.3.2.2. A.1.1~~ ~~User chats online with other users.~~

~~2.3.2.2. A.2~~ ~~When user selects UC-CO02.~~

~~2.3.2.2. A.2.1~~ ~~User selects staff who consult with.~~

~~2.3.2.2. A.2.2~~ ~~User uploads counseling form includes time to consult, purpose, date to consult.~~

~~2.3.2.2. A.3~~ ~~When user selects UC-CO03.~~

~~2.3.2.2. A.3.1~~ ~~User replies to surveys.~~

~~2.3.3 Pre-Conditions~~

~~2.3.3.1~~ - The system informs the user incorrect input error.

U15.5 Precondition

User must be logged into the system as a director.

User selected ~~UC-02 at UC-00~~director's option.

~~2.3.4 Post-Conditions~~

~~2.3.4.1 User select one of functions.~~

2.3.5 Name of Extension Point

2.3.5.1   UC-SV01: Vote

2.4 UC-03: Manage Kindergarten

2.4.1 Brief Description

This use case describes the functions of managing kindergarten.

<functions>

UC-MK01: Manage Schedule

UC-MK02: Manage list of students

UC-MK03: Invite Parents

UC-MK04: Manage Class

UC-MK05: Manage Kindergarten Bus

2.4.2 Flow of Events

2.4.2.1 Basic Flow

2.4.2.1. A   When user selects UC-MK01.

2.4.2.1. A.1   **U15.6 Postcondition**

The ~~system shows kindergarten's schedule calendar.~~

2.4.2.1. A.2   User updates kindergarten's schedule.

2.4.2.1. B   When user selects UC-MK02.

2.4.2.1. B.1   The system shows list of children and list of children'schanged information~~.~~

2.4.2.1. B.2   User updates list of children and children's information.

2.4.2.1. C   When user selects UC-MK03.

~~2.4.2.1. C.1~~ ~~User enters number of parents who want to apply for admission.~~

~~2.4.2.1. C.2~~ ~~The system sends invitation message.~~

~~2.4.2.1. D~~ ~~When user selects UC-MK04.~~

~~2.4.2.1. D.1~~ ~~User sets class name. (UC-MC01)~~

~~2.4.2.1. D.2~~ ~~User sets class teacher. (UC-MC02)~~

~~2.4.2.1. D.3~~ ~~User manages list of class children. (UC-MC03)~~

~~2.4.2.1. F~~ ~~When user selects UC-MK05.~~

~~2.4.2.1. F.1~~ ~~User sets courses of bus.~~

~~2.4.2.2. F.2~~ ~~User updates condition of bus.~~

~~**2.4.2.2 Alternative Flows**~~

~~**2.4.3 Pre-Conditions**~~

~~2.4.3.1~~ ~~User selected UC-03 at UC-00.~~

~~**2.4.4 Post-Conditions**~~

~~2.4.4.1~~ ~~User select one of functions.~~

~~**2.4.5 Name of Extension Point**~~

~~2.4.5.1~~ ~~UC-MC01: Set Class Name~~

~~2.4.5.2~~ ~~UC-MC02: Set Class Teacher~~

~~2.4.5.3~~ ~~UC-MC03: Manage List of Class Student~~

~~3. Brief Use Case~~

~~This section includes a brief explanation of use cases mentioned~~ is stored in ~~the use case diagram as brief use cases~~Data Storage System.

~~3.1 UC-MN01: Manage Album~~

~~When user is staff, user uploads children's photography.~~

~~User leaves comment. (UC-MM01)~~

~~When user is parents, user downloads photography in album.~~

~~The system shows user(parents) only album of user's child.~~

~~User leaves comment. (UC-MM01)~~

~~User shares photos in album via SNS.~~

~~The album is classified by child.~~

~~2.1.4.1, 2.1.4.2, 2.1.4.3, 2.1.4.4, 2.1.4.6, 2.1.4.7 in SRS.~~

~~3.2 UC-MN02: Manage Bulletin Board~~

~~When user is staff, user uploads to-do list. (UC-MB01)~~

~~User uploads kindergarten's newsletter. (UC-MB02)~~

~~User writes what children did at kindergarten. (UC-MB03)~~

~~User updates information about daily diet. (UC-MB04)~~

~~When user is parents, user checks to-do list. (UC-MB01)~~

~~User checks kindergarten's newsletter. (UC-MB02)~~

~~User checks activities what user's child did at kindergarten. (UC-MB03)~~

~~User checks diet information. (UC-MB04)~~

~~Extension Points~~

~~UC-MB01: Record To-do List~~

~~UC-MB02: Kindergarten's Newsletter.~~

~~UC-MB03: Record Activity~~

~~UC-MB04: Record Diet~~

~~3.3 UC-MK04: Manage Class~~

~~User sets name of class. (UC-MC01)~~

User sets teacher of class. (UC-MC02)

User manages list of class children. (UC-MC03)

User can manage multiple classes.

The system records user's rest time to guarantee user's break time.

The system sets user's time to use system for not to use phone a lot.

The system shuts down after kindergarten closed.

Extension Points

UC-MC01: Set Class Name

UC-MC02: Change Director

UC-MC03: Change Name of Kindergarten

2.1.7.1, 2.1.7.2, 2.1.7.3, 2.1.8.1 in SRS.

3.4 UC-MC01: Manage Health

User selects one of the following functions, UC-MH01, UC-MH02.

Extension Points

UC-MH01: Inform Medication

UC-MH02: Check Temperature

3.5 UC-MC02: Manage Attendance

User selects one of the following functions, UC-MA01, UC-MA02.

Extension Points

UC-MA01: Check Time

UC-MA02: Check Attendance

3.6 UC-MC03: Manage Notice

User selects one of the following functions, UC-MN01, UC-MN02, UC-MN03, UC-MN04.

~~Extension Points~~

~~UC MN01: Record To-do List~~

~~UC MN02: Kindergarten's Newsletter~~

~~UC MN03: Record Activity~~

~~UC MN04: Record Diet~~

~~3.7 UC MC04: Track Kindergarten Bus~~

~~User tracks bus's current location.~~

~~2.1.6.1 in SRS.~~

~~3.8 UC MH01: Inform Medication~~

~~When user is staff, user checks information of medicine what children take.~~

~~When user is parents, user updates information of medicine what user's child takes.~~

~~2.2.1.6, 2.2.1.7 in SRS.~~

~~3.9 UC MH02: Check Temperature~~

~~When user is staff, user updates temperature of children.~~

~~When user is parents, user checks temperature of user's child.~~

~~2.2.1.9 in SRS.~~

~~3.10 UC MA01: Check Time~~

~~When user is staff, user updates time when children get to kindergarten.~~

~~User updates time when children leave kindergarten.~~

~~When user is parents, user checks time when user's child gets to kindergarten.~~

~~User checks time when user's child leaves kindergarten.~~

2.2.1.1 in SRS.

3.11 UC-MA02: Check Attendance

When user is staff, user updates children's attendance state.

When user is parents, user checks children's attendance state.

2.1.1.2 in SRS.

3.12 UC-RM01: Report Monthly

At the beginning of month, system sends attendance report.

2.1.1.3 in SRS.

3.13 UC-MN03: Development Record

When user is staff, user writes children's development record.

When user is parents, user checks development record of user's child.

2.1.1.8 in SRS.

3.14 UC-MB01: Record To-do List

When user is staff, user writes to-do list.

When user is parents, user checks to-do list.

2.1.3.4 in SRS.

3.15 UC-MB02: Kindergarten's Newsletter

When user is staff, user uploads kindergarten's newsletter.

When user is parents, user checks kindergarten's newsletter.

2.1.3.4 in SRS.

3.16 UC-MB03: Record Activity

When user is staff, user writes what children did at kindergarten.

When user is parents, user checks activities what user's child did at kindergarten.

2.1.1.4 in SRS.

3.17 UC-MB04: Record Diet

When user is staff, user updates information about daily diet.

The information includes what children eat, food's nutrition information, and allergy causing warning.

When user is parents, user checks diet information.

2.1.1.5 in SRS.

3.18 UC-MM01: Make Comment

User leaves a comment at album and to-do list.

Comment can be a small QnA section.

2.1.4.5 in SRS.

3.19 UC-CO01: Chat Online

User chats with other users.

The system keeps the chat record.

The system checks spells immediately.

2.1.3.1, 2.1.3.2, 2.1.3.3, 2.1.3.5 in SRS.

3.20 UC-CO02: Reserve Counseling

When user is staff, the system shows list of reserved counseling.

When user is parents, user uploads counseling form includes time to consult, purpose, date to consult.

2.1.3.2, 2.1.3.3, 2.1.5.1 in SRS.

3.21 UC-CO03: Survey

When user is staff, user uploads survey form includes title, purpose, date of end of survey.

When user is parents, user replies to uploaded survey.

2.1.3.10 in SRS.

3.22 UC-SV01: Vote

When user is staff, user uploads voting form includes title, purpose, date of end of survey.

When user is parents, user replies to uploaded vote.

2.1.3.9 in SRS.

3.23 UC-MK01: Manage Schedule

The system shows kindergarten's schedule calendar.

User updates the calendar.

2.1.2.8 in SRS.

3.24 UC-MK02: Manage List of Children

User updates list of children and children's information.

2.1.2.6 in SRS.

3.25 UC-MK03: Invite Parents

User enters number of parents who want to apply for admission.

The system sends invitation message.

2.1.2.7, 2.1.3.6 in SRS.

3.26 UC-MK05: Manage Kindergarten Bus

User sets courses of bus.

User updates condition of bus.

2.1.6.2, 2.1.6.3 in SRS.

3.27 UC-MC01: Set Class Name

User sets name of class.

2.1.2.4 in SRS.

3.28 UC-MC02: Set Class Teacher

User sets teacher of class.

2.1.2.9 in SRS.

3.29 UC-MC03: Manage List of Class Children

The system shows user list of children in class.

User changes information about the children in the list.

2.1.7.4 in SRS.

~~3,30 UC-AL01: Manage List of Teachers~~

~~The system shows user list of teachers in kindergarten.~~

~~User changes information about the teachers in the list.~~

~~2.1.2.5 in SRS.~~

~~3.31 UC-AL02: Change Director~~

~~User changes director of kindergarten.~~

~~2.1.2.2 in SRS.~~

~~3.32 UC-AL03: Change Name of Kindergarten~~

~~User changes name of kindergarten.~~

~~2.1.2.3 in SRS.~~

~~3.33 UC-RV01: Reservation~~

~~User makes a reservation for uploading comments.~~

~~User makes a reservation for uploading to-do list.~~

~~2.1.3.7, 2.1.3.8 in SRS.~~**U15.7 Linked Requirements**

R2.2, R2.3, R2.5