

# Systems and Services Pattern Descriptions at Daycare

*by* R.fenny Syafariani

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## Systems and Services Pattern Descriptions at Daycare

Andri Sahata Sitanggang, R.Fenny. Syafariani

Indonesia Computer University/Information System

Jl. Dlpatiukur No. 112-116, (022) 2504119/(022) 2533754, Bandung 40132

andri.sahata@email.unikom.ac.id

r.fenny.safariani@email.unikom.ac.id

### Abstract

*A daycare is a service provided when a woman wants to leave their children. However, their doubts and trusts about a daycare are one of the important factors in choosing it. Thus, the daycare services should be able to address the concerns that exist today. One of the services provided is the ease in using these services, with the existence of information technology in the form of a child care information system as one of the solutions. Child Care Information System is a system that can manage child registration functions, child service management, as well as payment for services used. If these 3 functions can be managed properly, then it certainly helps daycare in fostering a great sense of trust from mothers / women in entrusting their children. The application of a child care information system can help with problems faced by housewives or working women and the daycare managers.*

**Keywords:** Care, Child, Information, Place, System

### 1. Introduction

It is natural for a woman to be a housewife; it is what a woman must live with. Moreover, to face today's life, many women are now also serves as a career woman. Besides being a career woman, they are also required to carry out their obligations as housewives who take care of their husbands and children, especially to take care of children, must be willing to sacrifice a lot of time. Thus, many women in Indonesia perform dual function tasks, not only as a housewife but also as a career woman in order to support the family economy [1].

With the presence of women who have this dual function task, a service called daycare is made. Daycare is one of services in which there are education and parenting programs at the same time and social welfare for children from birth to six years of age. Providing services to children aged 0 - 6 years that parents have to leave because of work or other obstacles and provide services related to the fulfillment of children's rights to grow and develop, get protection and love, and the right to participate in the social environment is the purpose of daycare. Thus, a daycare should answer all these objectives, various child care facilities are important factors that must be considered such as eating patterns, resting patterns, play patterns, learning patterns and other patterns. A trustworthy daycare must be able to support the growth and development aspects that must be considered by any parent, namely cognitive, language, emotional, social and motor development[2].

Overview of the technological situation applied by the LittleBee Daycare & Preschool Jakarta daycare center located at Jalan Bromo 19, Guntur Kuningan, South Jakarta (near Imperium Tower Kuningan) is discussed in this research. The problems that occur are the existence of incomplete information for the registration data of the entrusted child, and the use of any facilities that should be used, frequent exchange of data among entrusted children, thus, the parents often complained about it. From these problems, LittleBee Daycare & Preschool is one of the daycare centers which can be applied to child care information systems. The Information System is the one that helps in managing the registration process, facilities and payments

### 2. Research Method

The research method uses prototype development method [3]. A descriptive method is used in describing the state of the technology or system applied by LittleBee Daycare & Preschool daycare center. Descriptive method is to describe all existing data systematically and then analyzed and compared based on the ongoing reality and then provides problem solving. The following is an illustration of the results of the research conducted in Figure 1.

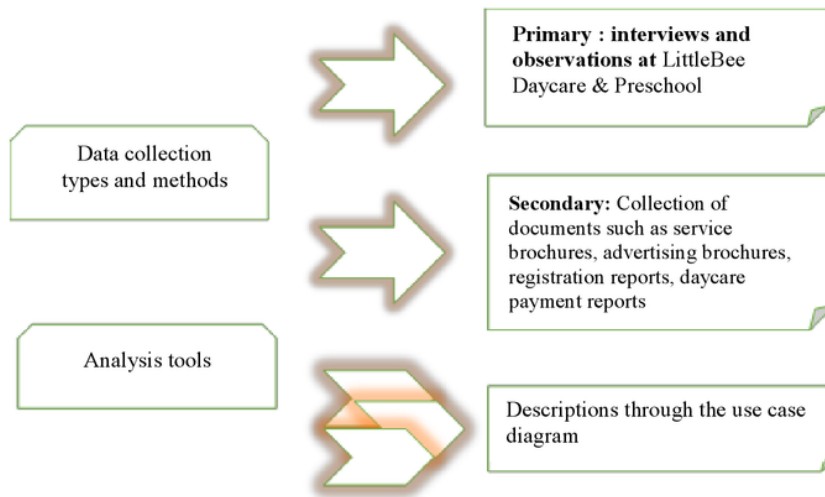


Figure 1. Research Methods

### 3. Results and Analysis

The results and analysis is illustrated by describing the procedure, program activities performed, and daycare services process.

#### 3.1. Description of child care system that runs on LittleBee Daycare & Preschool.

The following procedures or processes are running as follows:

1. Consumers / toddler mothers come to visit the day care center.
2. They have to register first if it was their first time visiting.
3. If registered, then the consumers only choose the package based on a certain period: daily, weekly or monthly.
4. If they have registered and selected a daycare package, then the child can be entrusted. The nurse starts taking the child or toddler who is entrusted and follows the programs provided by daycare services

#### 3.2. Use Case Diagram

The used description uses the object approach method [4].

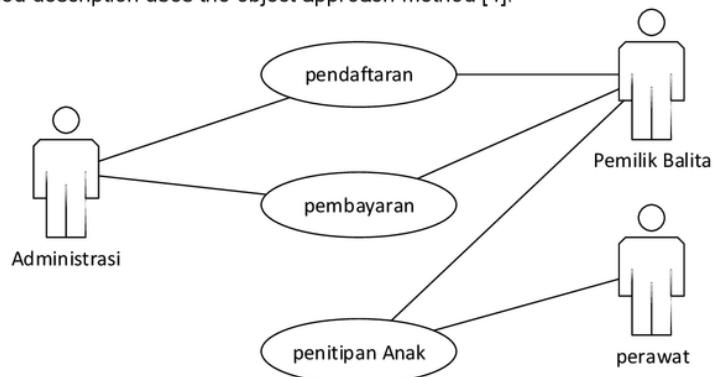


Figure 1. Use Case Diagram

### 3.3. Description of the facilities used

#### 3.3.1. Daycare Program.

Table 1. Class-based programs

No	Class Name	Age
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1	Love-Baby Class	3-15 months
2	Laugh-Toddler Class	16-30 months
3	Learn-Preschool	(>30 months)

### 3.3.2. Activities performed

#### a. Love-Baby Class

Table 1. The Baby Class Program Activities

Activity Time	Activity	Information
07.30-08.30	Breakfast	Healthy food (5 times: breakfast, morning snack, lunch, afternoon snack, lunch)
08.30-09.00	Drink milk + sunbathing	We provide ASI storage and sunbathing areas
09.00-10.00	Sleep	Beds with head pillows, blankets and sheets replaced once a week.
10.00-11.00	Morning snack + gross motor program	Playground equipment is available to train gross motor and fine motor
11.00-11.30	Lunch	Nutritious healthy food complete with eating utensils + baby seats (bouncers)
11.30-12.00	Gross motor program	Program to train child development according to age
12.00-12.30	Sleep Preparation	Changing pajamas and pampers
12.30-14.00	Sleep	Comfortable beds, pillows and blankets are provided personally.
14.00-14.30	Afternoon snack + fine motor program	Playground equipment is available to train gross motor and fine motor
14.30-15.30	Fine motor program	Program to train child development according to age
15.30-16.30	Bath	Afternoon bath with warm water and baby massage provided for children
16.30-17.00	Afternoon meal	Nutritious healthy food with daily menu details
17.00-17.30	Waiting to be picked up	While playing, the children wait to be picked up

#### b. Toddler Class

Table 2. The Toddler Class Program Activities

Activity Time	Activity	Information
07.30-08.00	Breakfast	Healthy food (5 times: breakfast, morning snack, lunch, afternoon snack, lunch)
08.00-09.30	Free play	Large and safe play area
09.30-10.00	Morning Snack	Nutritious healthy food with daily menu details
10.00-10.30	Circle Time (Gross Motor)	Gross motor stimulation is performed in a large playing area
10.30-11.00	Activity (Fine Motor)	Fine motor stimulation is delivered in making children's activities in accordance with daily and monthly themes
11.00-11.30	Free play waiting for lunch	We provide various gross and fine motor games for children
11.30-12.00	Lunch	Nutritious healthy food with daily menu details
12.00-12.30	Preparation nap	Changing pajamas and pampers
12.30-14.30	Nap	Comfortable beds, pillows and blankets are provided personally
14.30-15.30	Bath	Afternoon bath with warm water provided for children
15.30-16.00	Lunch + snack	Nutritious healthy food with daily menu details
16.30-17.30	Play, waiting to be picked up	While playing, the child waits to be picked up

#### c. Preschool

Activity Time	Activity	Information
10.00-10.05	Preparation	Line up and check the tidiness of clothes

2

*Title of manuscript is short and clear, implies research results (First Author)*

10.05-10.15	Opening	<ol style="list-style-type: none"> <li>1. Deliver greetings</li> <li>2. Introducing yourself (absenteeism)</li> <li>3. In an interesting way the teacher will explain what will be learned today and the purpose for the child</li> </ol>
10.15-10.45	Gross Motor Development	Gross Motor Development is combined with cognitive, language, social and moral development
10.45-11.00	Cognitive Development	Child Cognitive Development (recognizing letters and numbers) by playing method
11.00-11.20	Fine Motor Development	Fine Motor Development is integrated with language development (including introducing English terms), social and moral by doing activities
11.20-11.30	Closing	<ol style="list-style-type: none"> <li>1. Repeating what has been learned</li> <li>2. Greetings</li> <li>3. March out (for lunch)</li> </ol>

**d. Package and Facility Prices**

Class	Prices	Facilities
Baby Class Age 3-15 months 07.30-17.30	<ol style="list-style-type: none"> <li>1. Daily Fee IDR 500.000</li> <li>2. Admin Fee IDR 2.000.000 (Paid 1x, if Off is valid for 3 months)</li> <li>3. Monthly IDR 4.000.000 (10 hours: 07.00-17.00   07.30-17.30   08.00-18.00)</li> <li>4. Monthly ++ IDR 4.300.000 (10.5 hours)</li> <li>5. Overtime IDR 50.000 / hour (Before 07:30   17.30 - 18.30) IDR 80.000 / hour (18.30 - 19.30) IDR 100.000 / hour (OVER 19.30)</li> <li>6. Morning bath IDR 250.000 / month.</li> </ol>	<ol style="list-style-type: none"> <li>1. Healthy food, 5x   breakfast, morning snack, lunch, afternoon snack, dinner</li> <li>2. Sleeping equipment   mattresses, sheets, pillows, pillowcases, blankets provided for each child and replaced once a week</li> <li>3. Feeding equipment including special baby seats (bouncers)</li> <li>4. Playground equipment to train gross motor and fine motor</li> <li>5. Program to train child development according to age</li> <li>6. ASI Storage</li> <li>7. Baby massage</li> <li>8. Baby sun bath</li> <li>9. CCTV Streaming from 16 CCTV points that shows the entire daycare room (for each parent get 2 CCTV Streaming username)</li> <li>10. Comprehensive Daily Report</li> <li>11. Measurement of height and weight once a week</li> <li>12. Doctor's visit to conduct a medical check-up as a whole (once every 3 months)</li> <li>13. Examination report on child development (including: gross motor, fine motor, cognitive, language, social and independence)</li> <li>14. Teachers and caregivers who are trained and loving</li> </ol>
Toddler Class Age 16-30 months 07.30-17.30	<ol style="list-style-type: none"> <li>1. Daily Fee IDR 500,000</li> <li>2. Admin Fee IDR 2,000,000 (Paid 1x, if OFF is valid for 3 months)</li> <li>3. Monthly IDR 3,500,000 (10 hours: 07.00-17.00   07.30-17.30   08.00-18.00)</li> <li>4. Monthly ++ IDR 3,800,000 (10.5 hours)</li> </ol>	<ol style="list-style-type: none"> <li>1. Healthy food, 5x   breakfast, morning snack, lunch, afternoon snack, dinner</li> <li>2. Sleeping equipment   mattresses, sheets, pillows, pillowcases, blankets provided for each child and replaced once a week</li> <li>3. Feeding equipment including special baby seats (bouncers)</li> <li>4. Playground equipment to train gross motor and fine motor</li> <li>5. Program to train child development guided by trained teachers (if the child is more than 30 months old and does not attend the Preschool program, all material is still provided for children aged 16-30 months)</li> </ol>



Class	Prices	Facilities
	5. Overtime IDR 50,000 / hour (Before 07:30   17.30 - 18.30) IDR 80,000 / hour (18.30 - 19.30) IDR 100,000 / hour (OVER 19.30) 6. Morning bath IDR 250,000 / month	6. ASI Storage 7. Baby massage 8. Baby sun bath 9. CCTV Streaming from 16 CCTV points that shows the entire daycare room (for each parent get 2 CCTV Streaming username) <ul style="list-style-type: none"> <li>• Comprehensive Daily Report</li> <li>• Measurement of height and weight once a week</li> <li>• Doctor's visit to conduct a medical check-up as a whole (once every 3 months)</li> <li>• Examination report on child development (including: gross motor, fine motor, cognitive, language, social and independence)</li> <li>• Teachers and caregivers who are trained and loving</li> </ul>
Preschool Age above 30 months 07.30-17.30)	1. Admin Fee IDR 2,000,000 It includes a uniform fee in 1 year, which consists of: 2 types of uniforms, with superiors and subordinates 2. Monthly Fee IDR 500,000	For children who participate in the Daycare Program: <ol style="list-style-type: none"> <li>1. On Monday, Wednesday, Friday will take part in the Daycare Program from 07:30 to 10:00, continued at 11:30 - 17:30</li> <li>2. For Tuesdays and Thursdays, Circle Time activities will join Daycare, but for Fine Motor activities will be in Preschool classes with different activity material</li> <li>3. Especially for Monday, Wednesday and Friday, child development information (gross, fine, language, social motor) is not filled in because it follows the Weekly Preschool Report</li> <li>4. Especially on Tuesday and Thursday, will get a complete Daily Report</li> </ol>

#### 4. Conclusion

Childcare centers located in LittleBee Daycare & Preschool Jakarta already have programs or activities that support the growth of children who are entrusted; it can be seen from the class division based on age. Thus, it becomes one of the recommendations for a day care that is good enough for parents who have toddlers. Whereas, the registration process, payment and child care can be applied to an integrated system, so that the resulting accurate and reliable information reports.

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