Interior design of creative and imaginative playground in Jakarta

O Priskie¹, I Rachmayanti¹* and A A A Wulandari¹

¹Interior Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia 11480

Email: ikarachmayanti@binus.ac.id

Abstract. This research intended to design an interior of a creative and imaginative play centre for children that provide facilities in order to support the development of their creativity and imagination before adulthood. This research method used qualitative with surveys, literature studies, and observation. The creative and imaginative playground is designed based on the proper placement of the zone of the room, the arrangement of furniture in accordance with the ergonomics of children aged 3-9 years and adults, the determination of concepts, the selection of materials, and colors in accordance with the concept circulation. This is done so the creative and imaginative playground for children can function optimally that can become one of the supporting facilities for children to be creative.

Keywords: creative playground, imaginative playground, playground for children, interior design

1. Introduction

1.1. Background

Since a child, people always play activities to get excited. Playing and creating excitement for children can also develop cognitive abilities, social, physical, and emotional abilities that children need when growing into adulthood [1]. Scientifically, playing really supports the development of children, such as learning and adapting to sensory abilities [2] [3]. In addition, children can interact and build relationships with peers, so a rope of friendship emerges between them is the main development in the first years. Similarly, the creativity of children is essential to be raised and developed in children [12]. Children who always think creatively enable to solve a problem where they can express their thoughts without any limitations and give birth to new ideas. When children concern themselves with creativity, they will feel satisfied because their level of satisfaction affects their social and emotional development [6] [8]. Through creativity, they can freely imagine and explore.

In fact, in big cities like Jakarta, not many provide playgrounds for children, so they are less able to explore. Likewise, with a place for children to develop creativity where they can freely create. Therefore, it takes place to play and creative place for children so they can develop imagination and creativity that can support their development before adulthood [7] [9].
Based on the problems above, the author wants to design a creative and imaginative playground that can help children freely explore and develop their imagination and creativity. The creative and imaginative playground also provides facilities that can support children to find their strengths and interests through educational workshops [5]. The facilities provided include storytelling rooms, which are equipped with furniture such as children's bookshelves, painting rooms, music and singing rooms, playgrounds, and so on. One important factor supporting the success of a creative and imaginative Playground service is the interior design of the playground. The interior design of a playground is designed based on facilities to support children's activities. Factors that must be considered when designing a playground is not only in terms of safety and comfort, but the choice of concepts and colors are very influential on the imagination and creativity of children.

1.2. Problem formulation
Based on the background above, the following problems can be identified:
- How to design the interior of a creative and imaginative children's playground with safe and harmless facilities for children?
- How to arrange the relationship between spaces/zoning in accordance with the needs of the facilities available at the creative and playground to create good circulation?
- How to arrange the concept of designing a creative and imaginary children's playground facility that can entertain and enhance children's imagination through the application of floor, wall, and ceiling?
- How to arrange the selection and application of the material which is not harmful to children?

1.3. Research purpose
Some of the problems discovered by the author, which then produce an objective of this design include:
- Designing interiors that can support activities contained in the creative and imaginative playground for children through the facilities provided.
- Designing an interior that is safe for children by using measures suitable for the child's ergonomics.
- Designing a pleasant interior for children by arranging lighting and color.
- Designing interiors that can maximize activities in existing facilities through the arrangement of relationships between spaces creates good circulation.
- Arranging the concept of designing a creative and imaginative playground that can entertain and enhance children's creativity through the application of material on the floor, wall, and ceiling.
- Developing the concept of designing a creative and imaginative children's playground as a play and learning facility that can support and broaden their horizons through the facilities provided.

2. Research methods
2.1. Research stages
2.1.1. Survey
Surveys can be carried out directly and indirectly. Direct surveys such as field surveys or locations can be carried out by visiting playgrounds, workshops, such as painting, drawing, and children's libraries. This survey is also conducted by interviewing people related to children's playgrounds, workshops, and libraries. On the other hand, an indirect survey was carried out by finding information through website sources.

2.1.2. Literature study
Literature studies can be done by obtaining secondary data, such as reference information from books, official website sources, and published journals that are nationally or internationally recognized. The information is related to the understanding, history, and development relating to the design of the
playground interior design, children's library, children aged three-nine years, including children's creativity and imaginative understanding, and the needs for designing a school.

2.1.3. Observation
Observation is a stage where data is collected directly from the field. This process is begun by identifying the place to be examined. After the research location has been identified, it is continued by making a mapping, so a general description of the research objectives is obtained. This stage is also carried out by the author to examine an object in more detail by looking at the original activities and circumstances directly.

2.2. Design stages
The final project design process consists of several stages, namely:

![Figure 1. Final Project Stages](image)

The first stage is to determine the background for choosing an interior design project for a creative and imaginative playground. Next, look for problems that arise in designing the interior of a creative and imaginary playground. Then proceed with searching design data, such as literature studies, field surveys, and surveys from the internet. After that, the data obtained will be analyzed using 5W + 1H (who, what, where, when, why, and how). The next step is to make a recapitulation, then and make zoning and grouping from that data. After that, make a design concept. From this concept, the creative and imaginative playground can be designed. From this, the design will produce working drawings such as layouts, ceiling plans, and others. After that is the 3D modeling and rendering, and the latter is the making of mock-ups and axonometry.

3. Results and discussion
Usually, children tend to play outdoors. The outdoor area is a complete learning environment that can meet all the needs of the child's development, such as cognitive, linguistic, emotional, social, and physical [10] [11]. In the period around 1990-2000, children can still gather and play together in areas outside the home. However, as times evolve, risks such as vehicle accidents, violence, kidnappings, and others are increasingly higher. It is ultimately resulting in more and more parents worrying so they prohibit their children from playing outside other than at school. Developing technologies such as games in computers and other gadgets...
are a way for parents to distract and keep their children indoors all day, resulting in a reduced level of children's creativity and less ability to explore and socialize [4]. Therefore, the author makes a theme of the concept of a creative and imaginative playground called 'Fantasy Exploration'. This concept is a combination of two words, 'explore' with 'fantasy'. These words have the meaning where a person or group of people traces an area or travels everywhere to investigate something in the open nature. At the same time, fantasy is a picture in wishful thinking; fantasy, imagination. So if the two words are combined, a concept is created where children can adventure in imagination. From this concept, the author wants to create a creative and imaginative playground for children who have an 'Indoor feel like outdoor' atmosphere.

Figure 2. Mind Map

Figure 3. Mood board and Material Board
The form applied to the design of the creative and imaginative playground is curved, organic lines, and shapes to attract more attention while creating the impression of living space, not rigid, dynamic, and not dull. However, appropriate variations of geometric shapes are also needed to give a more stable, active, and safe impression to the designed interior space.

The colors chosen in the application of the creative playground design and imagination are natural colors such as green and brown colors derived from artificial grass material. HPL is combined with white paint and bright colors like yellow, orange, red, and purple. Furniture that will be used in the creative and imaginative playground is organic form furniture that has natural finishing such as wooden blocks and modern finishing, like Duco paint. The materials used are vinyl, carpet, artificial grass, paint, and hpl [15].
Figure 5. Playground Layout

Figure 6. Library Layout & Drawing Layout, Painting, and Coloring Workshop Area

Figure 7. Library & Drawing Layout, Painting and Coloring Workshop Area Perspectives
Figure 8. Lego Area and Library Area Perspectives

Figure 9. Sitting Area and Library Area Perspectives

Figure 10. Drawing, Painting, and Coloring Workshop Area Perspectives
In this playground, there are also disabled facilities such as in the playground are lego, which can be used for speech and hearing impaired. In the library area, there are also braille books for the visually impaired. In the drawing, coloring, and painting areas, there are facilities for the speech and hearing impaired. The lighting concept uses natural and artificial light sources. Natural lighting is obtained through the windows on the side of the room, applied in the playground area, and workshop drawing area. For artificial lighting is using indirect light and direct light. Caring for playing facilities uses a central air conditioning system from the Plaza Indonesia mall for the entire area of the facility.

4. Conclusions and suggestions

4.1. Conclusion

The creative and imaginative playground in Jakarta is a center for supporting facilities to increase children's creativity. The facilities provided include play areas such as rock climbing, playground, geometric puzzle, pin dots, Lego area, and see-saw, parent's lounge close to the play area, children's library which has facilities such as stage for puppet shows & stories telling, workshop such as drawing, painting, coloring, robotic, engineering, etc. Besides this creative and imaginative playground, it also has a birthday hall and café facility where children can celebrate birthdays.

By bringing up the theme concept of 'Fantasy Exploration', the author wants visitors, especially children, to be able to explore in fantasy. This theme is inspired by the way children think through the exploration of the imagination before they are creative. The word exploration has the similarity of words roaming or adventure. Adventure is usually associated with nature. So if the two words are combined, a concept is created where children can adventure in imagination. The colors used in the application of this creative and imaginary playground design are natural colors such as green and brown that come from artificial grass and plywood materials combined with white paint and bright colors like yellow, orange, red, and purple. Placement Lighting in a room is very influential to the atmosphere created. For this reason, the author uses a combination of indirect lighting, direct lighting, and spotlight as artificial light at the center of this creative play. All of this lighting uses LED lights.

The creative and imaginative playground is designed based on the proper placement of the zone of the room, the arrangement of furniture in accordance with the ergonomics of children aged 3-9 years and adults, the determination of concepts, the selection of materials, and colors in accordance with the concept circulation. This is done so the creative and imaginative playground for children can function optimally that can become one of the supporting facilities for children to be creative.

4.2. Suggestion

The writing of the final project report entitled "Interior design of the creative and imaginative playground in Jakarta" suggests several suggestions from the author for the community. It is hoped that the creative and imaginative playground can help children develop their creativity and imagination so they can be creative. Likewise, so it can help increase their horizons through the facilities available such as children's libraries.

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