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# Implementation of Interior Well-Design Space with Psychological Concept and Solution for Private Workspace in Surabaya

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**ABSTRACT:** A well-design workspace can increase productivity and enabling the efficient use of workspaces. Despite the well-design space concept, there are also a culture and habit that indirectly affecting the use of interior space functions and the atmosphere of working on the workspace. Therefore, this research will be about finding the issues and implementation of well-design space for private workspaces in Surabaya City. The case study for these project is using students' portfolio in Interior Design Department – Petra Christian University by Regina, Aileen and Leony. The research method is a qualitative research method. The method that can be used to collect primary data is by direct observation, interviews, and literature studies. Analysis will be carried out by comparing literature data with field data. From this analysis, a conclusion can be drawn as solution of the implementation of well-designed space in the interior of directors' room in Surabaya. The design will help its workers to improve their work performance, for example by adding plantation could provide a sense of comfort, and creativity.

**Keywords:** environment psychology, interior, well-design space, workspace

## 1 INTRODUCTION

Humans try to fulfill their life needs by working. Working become one of the important activities. Workspace is a space used or required for one's work, as in a workspace or home. Therefore, workspace has an important role in accommodating human activities. A good interior design of workspace can help workers improve productivity. Besides being able to increase productivity, good workspace arrangement can also provide other benefits, such as enabling the efficient use of workspaces and facilitating communication between users, so that coordination and supervision are easier. In addition to the effectiveness of work, good workspace space can affect user discipline in work (Van Meel et al., 2010).

The interior design of effective workspaces requires careful consideration of many issues. From the sensory inputs' aspects, organizational and national cultures, through the psychological needs for privacy (Augustin., 2009). Creating effective interior workspaces, will increases workers' satisfaction with their jobs, which is important for humanitarian and financial reasons. Based on Sally Augustin (Augustin., 2009); When someone is satisfied with their workspace, they will be more satisfied and happy with their work. Therefore, a well-designed workspace should be included five psychological aspects in the concept: communicating, comforting, complying, challenging and continuing.

Some studies stated that the way architects respond to building space is completely different from the needs, culture and habit of users. Moore in Snyder (1991) stated that Architects usually more concern regarding the physical and surrounding environments in building space. (Snyder, 1991) While Andi Siswanto in Sari stated the most important thing, development must be adjusted to pay attention to the values, socio-culture that applies to the local community. (Ishananto, 2010; Sari, 2018) Therefore, beside these five psychological aspects from Sally Augustin regarding the well-designed workspace, there are also a culture and habit that indirectly affecting the use of interior space functions and the atmosphere of working on the workspace. Based on the background above, this research is important to be done to find issues and implementation of well-design space with culture, habit, personalization and psychological issues for private workspaces in Surabaya City. The case study for these project is using students' portfolio in Interior Design Department – Petra Christian University by Regina, Aileen and Leony. The case study was selected because the first project represents workspace of a product company; the second project

represent co-working space and the third project represent workspace of a consultant company who is doing legal work.

## 2 RESEARCH METHODOLOGY

In general, the research method used is a qualitative research method. The primary data needed is in the form of data of the case study: Project 1 by Regina; Project 2 by Aileen and Project 3 by Leony. The primary data will be included the field data (existing interior condition, user's profile) and literature study regarding well-designed space. The method that can be used to collect primary data is by direct observation, interviews, and literature studies.

Analysis will be carried out by comparing literature data with field data. The thinking patterns that will be used are deductive and inductive thinking patterns. In this study, comparative analysis using deductive thinking is analyzing using theories about the concept of well-designed space, the concept of space and its architectural, interior and cultural elements (including habit and activity), symbolic meaning of the sign in context. While the analysis that uses inductive thinking patterns is analyzing using researchers' interpretations based on cultural contexts. From this analysis a conclusion can be drawn about the implementation of well-designed space in the interior of directors' room in Surabaya (as indicated as project 1, project 2 and project 3). The solution will be showed in the design for these projects.

## 3 LITERATURE

The theory that will be used in these particular research is based on Sally Augustin's theory (Augustin., 2009). Five aspects of a well-designed workspace is: communicating, comforting, complying, challenging, and continuing. Below is the explanation:

Communicating: means to communicate to others about who he is, and at the same time to remind themselves of who they are. In this particular aspect, the workspace design should be used to communicate users who they are as individuals to others, and at the same time remind themselves who they are. Comforting means: the design of the workspace can make people choose positive or negative moods. Color can communicate and influence the mood of workers. Complying means: meet the need to increase productivity and work motivation. The increasing productivity by increasing few aspects regarding the physical needs. Challenging means: opportunity to grow and develop as a person. A workspace can make people in a better mood, which broadens their thinking. Continuing means: a workspace needs to be changed as time passes from one generation to the next. Where it is expected that the workspace can be used for the continuation of the next generation.

## 4 RESULT AND DISCUSSION










For these research there will be three individual workspace of directors' room that become the issues and will be analyzed. The design solutions of the projects will be done by students of Interior Design Petra Christian University. The workspace product company (first project) was done by Regina. The co-working space (second project) was done by Aileen. And the workspace consultant company (third project) was done by Leony.

### 4.1 *The Users' Profile & Workspace Issue-Problem*

The users' profile that are used in this research will be explained in the table as such (see table 1.). There will be 3 projects with three explanations: existing workspace condition, user's profile and workspace problems.

Table 1. Table of Users' Profile

Project	Existing Condition	User's Profile	Workspace Problems
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Project 1: By Regina			
	<p>Existing Condition</p> <ul style="list-style-type: none"> <li>• Located in the middle between the meeting and accounting rooms.</li> <li>• Has two windows (to production and circulation area)</li> <li>• The ventilation using three air conditioners.</li> <li>• Director and Assistance director in the same room.</li> <li>• The lighting using 6 TL Lighting.</li> <li>• There is small window place which connects with accounting space</li> </ul>	<p>User's Profile</p> <ul style="list-style-type: none"> <li>• User was a Generation X</li> <li>• Activity: workspace task and marketing.</li> <li>• Favourite item: Plantation &amp; Horse</li> <li>• Favourite color: Blue and Silver</li> <li>• Interior Style: Modern, Minimal, simple</li> </ul>	<ul style="list-style-type: none"> <li>• Workspace is lacking of sense of privacy (most walls are made of glass)</li> <li>• Drawers for storing things a little.</li> <li>• No outlet on work desk</li> <li>• No plants</li> <li>• The position of director and assistant director is too close</li> <li>• The atmosphere color is monotone and cool atmosphere.</li> <li>• No natural light</li> <li>• No art</li> </ul>
Project 2: By Aileen			
	<p>Existing Condition</p> <ul style="list-style-type: none"> <li>• The design in the CEO room is less effective because with a large space it cannot be maximized on the arrangement of existing furniture and the room feels less private</li> <li>• Has two windows (to production and circulation area)</li> <li>• The ventilation using air conditioners.</li> </ul>	<p>User's Profile</p> <ul style="list-style-type: none"> <li>• User was a Generation Y.</li> <li>• Activity: workspace task, meeting, work, eat and marketing.</li> </ul>	<ul style="list-style-type: none"> <li>• Workspace is lacking of sense of privacy</li> <li>• Need space larger area to store</li> <li>• Need atmosphere that can uplifting working spirit.</li> <li>• Drawers for storing things a little.</li> <li>• The colors and patterns used are too monotonous</li> </ul>
Project 3: By Leony			
	<p>Existing Condition</p> <ul style="list-style-type: none"> <li>• Located in the corner of the space</li> <li>• The ventilation using air conditioners.</li> <li>• The lighting using down-light lighting.</li> <li>• The color of the room mainly cool color tone</li> </ul>	<p>User's Profile</p> <ul style="list-style-type: none"> <li>• User was a Generation X</li> <li>• Activity: meeting, consult, discuss workspace task and marketing.</li> </ul>	<ul style="list-style-type: none"> <li>• Need partition for the consultation room</li> <li>• The design need to support the activity</li> <li>• Need an ergonomic furniture</li> <li>• Need decorations like plantation and art work</li> <li>• Lighting need to support the work ambience</li> <li>• Need more privacy area.</li> <li>• Design not suitable for next generation</li> </ul>

Based on the workspace problems that have been stated on the table 1, therefore it is needed to apply the concept of well-design spaced by considering users' culture and profile as design solution. The conclusion for the workspace problems will be: privacy on the area; need more space for storage and activity; design that can last for the next generation; need to apply the favorite color and style in the design; more warm tone color; need natural lighting and ventilation; need art, plantation and decoration for the personalization touch.

#### 4.2 Solution

There will be concept and solution for the workspace problem for each project. The well-design space concept will be explained and concluded in the table as such (see table 2)

Table 2. Well-design space concept by considering users' culture and profile

Concept	Project 1 By Regina	Project 2 By Aileen	Project 3 By Leony
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Communicating	<ul style="list-style-type: none"> <li>Simple design → shows neat properties and according to generation x.</li> <li>High and elegant chair → shows high rank</li> <li>Separate space.</li> <li>Backdrop that is simple and high → denotes special position and rank</li> </ul>	The Table form need to support good for communication between one worker and another.	<ul style="list-style-type: none"> <li>Design will be increase concentration of the user.</li> <li>Design will increase communication within associates</li> </ul>
Comforting	<ul style="list-style-type: none"> <li>Color based on user preference: (For example using Blue and Grey as accent)</li> <li>Design based on user's desire → can work effective, efficient, and productive</li> <li>Smell, Light and Noise on the comfort level.</li> </ul>	<ul style="list-style-type: none"> <li>The CEO's work room will be more private</li> <li>In terms of color, the colors used are neutral colors that seem boring and less comforting.</li> </ul>	<ul style="list-style-type: none"> <li>Need private pantry for the user with café ambience.</li> <li>Using warm color to create more relaxing ambience.</li> <li>More space between two table to create more privacy</li> </ul>
Complying	<ul style="list-style-type: none"> <li>Seating position: on the back</li> <li>Using natural lighting from Skylight and light pipe</li> <li>Creating privacy using magic glass.</li> <li>Art installation of horse figure &amp; plantation on table and skylight</li> <li>Using user's favorite color as wall tone (Blue, Grey, White)</li> <li>View to outside and using big window.</li> </ul>	<ul style="list-style-type: none"> <li>The atmosphere in the workspace should be more open, comfortable and pleasant.</li> <li>More storage to store important documents for workers.</li> </ul>	<ul style="list-style-type: none"> <li>Design need to adjust for the next generation.</li> <li>The table will be made larger to adapt more technology</li> <li>More storage for filling near the user.</li> </ul>
Challenging	<ul style="list-style-type: none"> <li>There is creative space</li> <li>Using plantation in the room</li> <li>Using warm tone for creative thinking.</li> </ul>	Increasing the privacy of each room, so that each occupant in the workspace is not disturbed by workers in the room next to it.	<ul style="list-style-type: none"> <li>Using warm tone and natural color and texture to stimulate creative thinking of user.</li> <li>Using plantation to create more relaxing area.</li> </ul>
Continuing	<ul style="list-style-type: none"> <li>Creating an adaptable design for the next generation. Using technology for the design that can be used for 5-10 years.</li> </ul>	<ul style="list-style-type: none"> <li>Design need to meet standard</li> <li>Need to add space to increase the number of workers</li> <li>Add a pantry, and also a baby changing place in the bathroom</li> </ul>	<ul style="list-style-type: none"> <li>Design should be able to adapt next generation and considering to be used for 5 to 10 years.</li> </ul>

Each of the concept will be applied in the each of the project interior design as the design solution for the well-space design concept. The design solution of project 1, 2 and 3 can be seen in Figure 1 below.



Figure 1. Well-design space concept of Project 1 By Regina; Project 2 By Aileen and Project 3 By Leony



Based on the well-design space concept and design solution that have been stated on the table 2, therefore the general concept will be: more private area using high chair and partition; The need more space for storage by adding more furniture; more space for meeting activity and group discussion; design can be used for the next generation by adding additional technology on the furniture; implementation of favorite color and style (for example blue color on project 1); more warm tone color by adjusting light color, adding chocolate color and wood texture; adding natural lighting and ventilation using window, light pipe or skylight; adding art installation, plantation and decoration based on users' favorite items.

## 5 CONCLUSION

From the results of the three case studies analysis, it is clear that workspace issue can be concluded that a good workspace gives a good influence on its users. Where the well-space design (no matter what type of workspace) will be influenced users by make the users happy and ultimately improve work performance and efficiency. Implementation design of well-design space and psychological concepts were needed in order to increase users' working performance.

From these three case studies, where the workspace was previously very plain, monotonous and less comfortable becoming a more comfortable with fresh design and accordance to the character and user profile. By doing this, the design will help its workers to improve their work performance. For example, previously there was no plant in the workspace while plantation could provide a sense of comfort, and creativity. The other example is by doing personalization for the users by art installation on the workspace. As conclusion, as an interior designer, we must be able to understand well who the user of the space that we are going to design and creating a space that is physically and psychologically good and in accordance with the characteristics and needs of the user.

## ACKNOWLEDGE

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