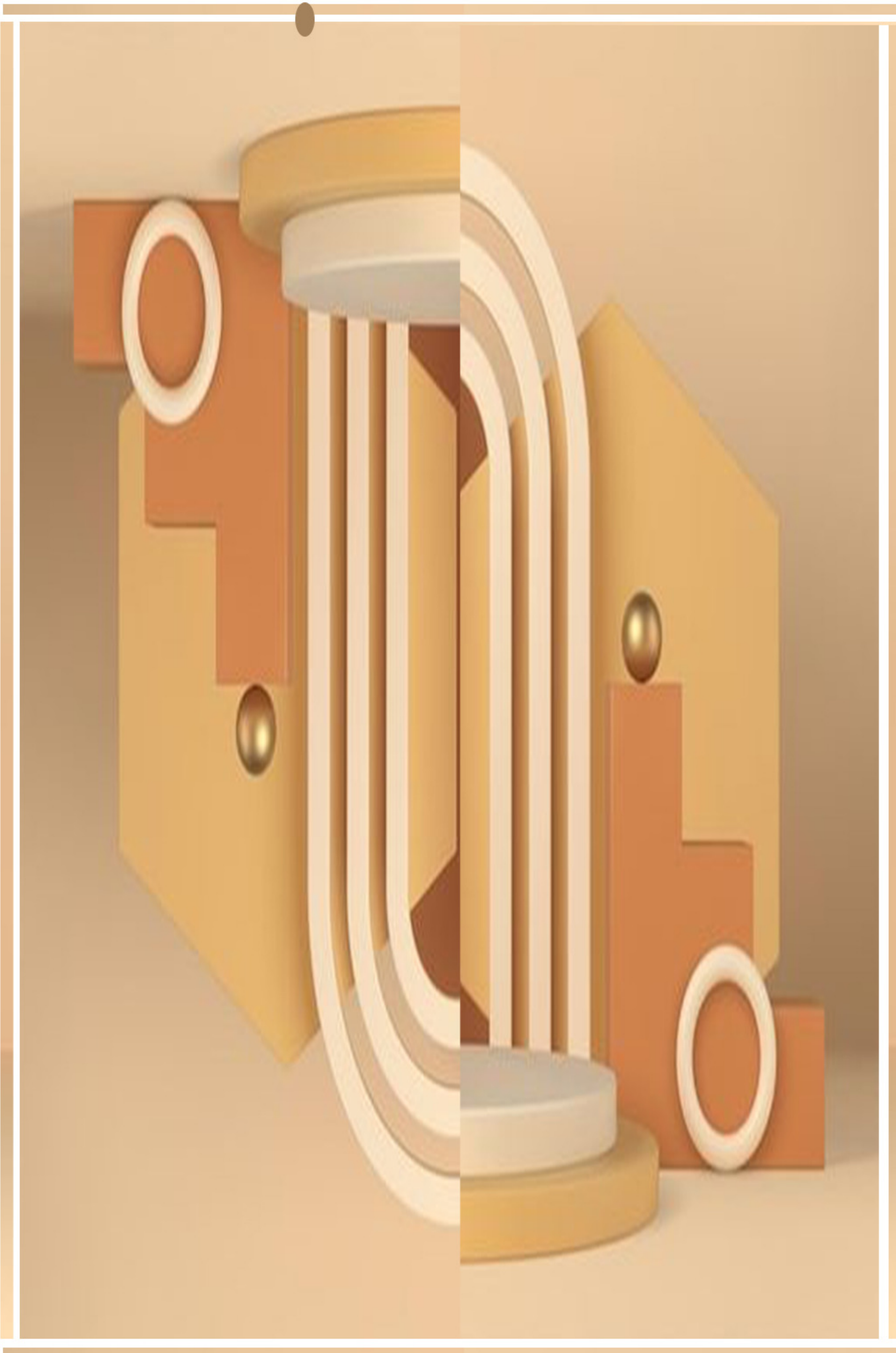




INTERIOR DESIGN
GRADUATE PORTFOLIO

RICHA ADHIKARI

PEDIATRIC CLINIC



The Pediatric Clinic in Baltimore is designed to provide a welcoming, comforting, and playful environment for children to receive medical care. The concept aims to create a magical world that distracts and delights young patients, easing their anxiety and making healthcare visits an enjoyable experience.

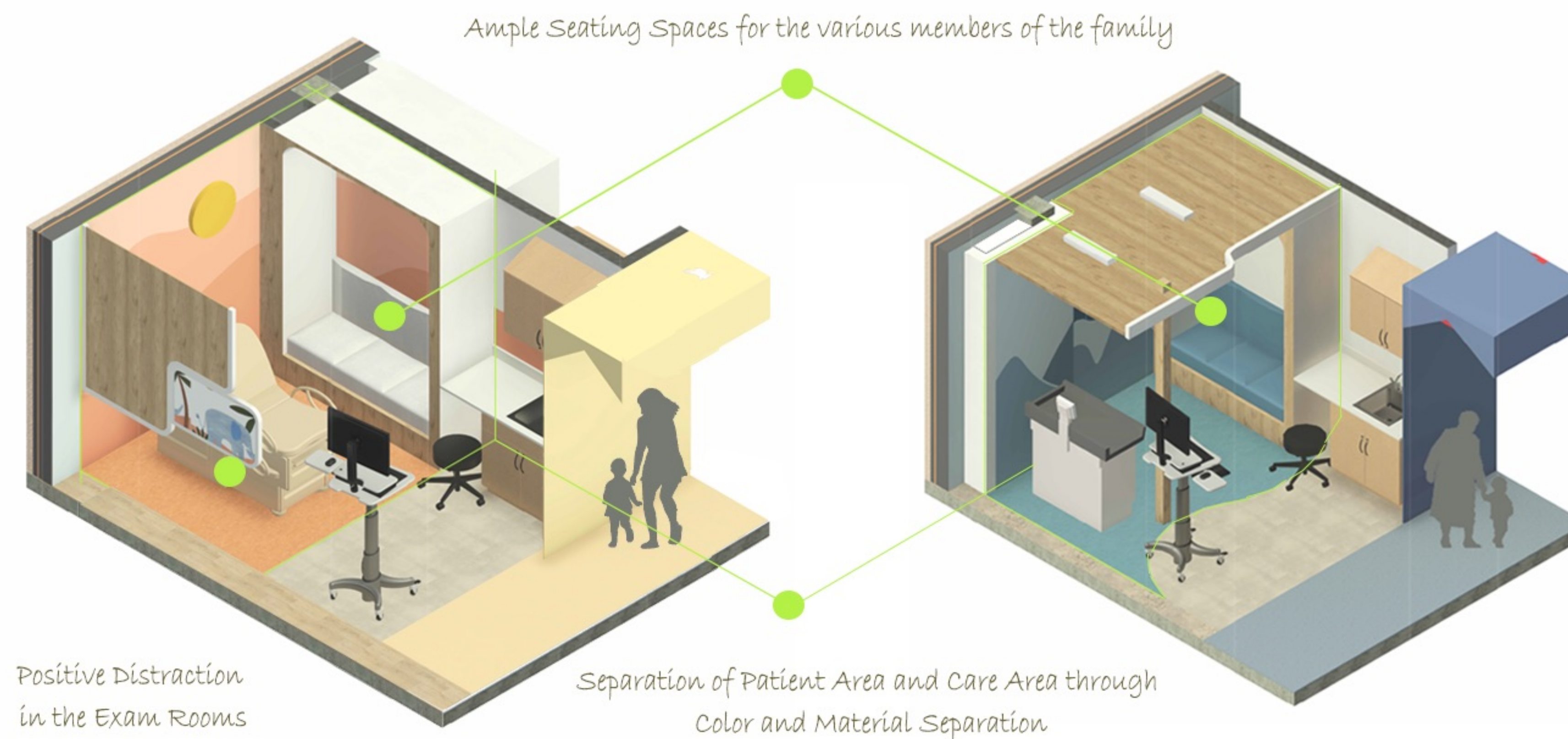
As children enter, they step into a world of imagination and wonder. Throughout the clinic, interactive wall art are strategically placed. This art includes color changing LED displays, or touch-sensitive surfaces, allowing children to engage with their surroundings while waiting or moving through the clinic.

Exam Room for the Patient



A straightforward floor layout with a minimal directional changes has been employed to enhance wayfinding behavior within the healthcare facility. The research findings related to Environmental Preference in the Healthcare environment were used as a reference to derive the planning and zoning of the spaces. The centralization of crucial support spaces, including check-in, the nurse station, and the manager's office, was a key focus in the conceptualization.

Additionally, areas essential for the well-being of support staff, such as the Mothers' Room, Staff Lounge, and Workspaces, are strategically placed in zones with abundant natural daylight, offering opportunities for restoration and respite. To create a welcoming atmosphere for patients and visitors, the waiting areas, being the first spaces encountered, has ample natural daylight. In contrast, exam rooms, which do not necessitate natural light, are positioned towards the back of the facility.





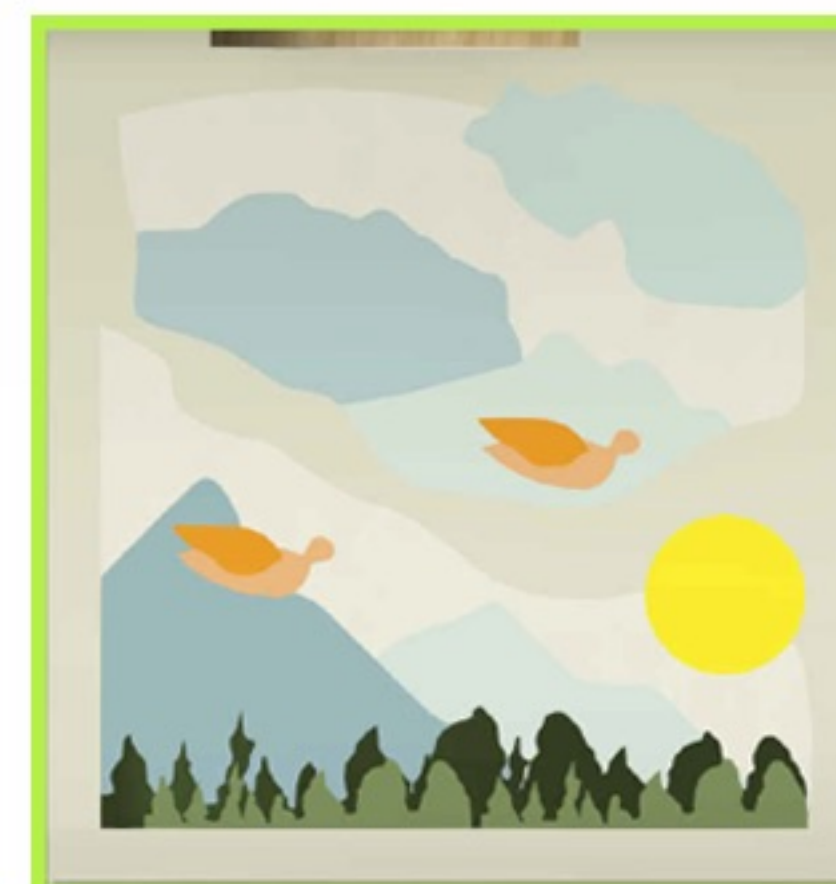
Waiting for the Patient



Distinct Landmarks can serve as a aid for wayfinding performance



Positive Distraction for children of different ages



A thoughtful use of color patterns serves as an effective means to aid navigation throughout the healthcare facility. The waiting room's mural draws inspiration from nature, incorporating a consistent color scheme of green, blue, and yellow, which extends into both the waiting areas and exam rooms. Symmetrical floor plans for exam rooms are complemented by the strategic use of colors and distinctive landmarks to enhance wayfinding performance.

Furthermore, color and color contrast applications on the floor serve as reference points, facilitating wayfinding throughout the facility. The implementation of color coding for different parts of the building helps differentiate various spaces, creating a cohesive and intuitive navigation system.

Environmental visual cues for wayfinding

- Colors can be used to distinguish different parts of the building, which could help wayfinding performance.
- Landmark and reference points are designed in spaces with distinct functions, such as nurse stations, serve as a aid for wayfinding performance





Women's Health Clinic in Baltimore is a holistic healthcare facility designed to prioritize women's health and well-being. The concept revolves around creating a serene and welcoming environment that fosters a sense of harmony, comfort, and support.

The space incorporate natural materials such as wood, stone, and earthy color palettes in the clinic's design to create a calming and harmonious atmosphere. Biophilic design principles are applied, with an abundance of indoor plants and natural lighting.

Elements such as nature inspired artwork can help create a tranquil atmosphere. Dedicated mindfulness spaces are provided where patients can practice relaxation before or after their appointments. Each examination room are designed with privacy and comfort in mind. Soft, warm colors, comfortable seating, and adjustable lighting helps patients feel at ease during appointments

WOMEN'S HEALTH CLINIC



PROGRAM ZONING

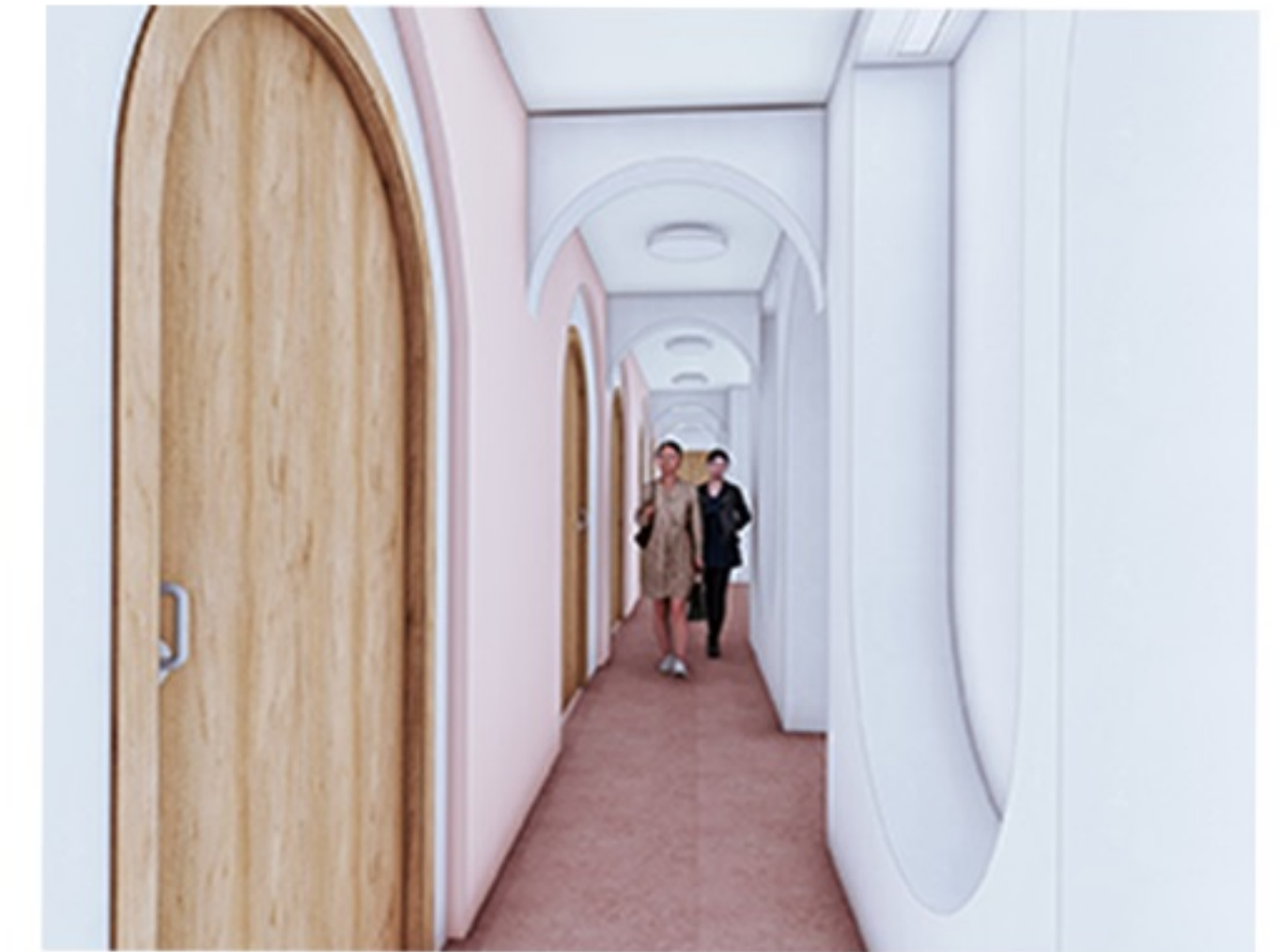
The women's health clinic draws inspiration from nature and femininity, reflected in its design fluidity and Agility. The design is informed by research findings on Environmental Preference in the Healthcare Environment ensuring a holistic and comforting experience for patients.

- 1. Preference of Visual Arts – Positive Distractions
- 2. Preference of Physical Attributes – Patient well being
- 3. Preference of Daylight and Window views – Best Possible outcomes and Staff Satisfaction
- 4. Preference of Natural Scenes- Restoration and Respite

The floorplan is thoughtfully organized, with centralized support spaces creating a circulation loop for staff. The entrance strategically houses the waiting area, featuring various seating spaces and a check-in space, while the exam rooms are positioned towards the back. Ample natural light is intentionally incorporated the waiting rooms and support spaces, including the staff lounge and mothers' room, providing a restful and restorative environment for both staff and patients.







The Woman's Health Clinic represents a harmonious blend of curves and nature, aiming to depart from the typical healthcare environment and foster inclusivity in a serene setting. Introducing new archways, specifically addressing existing curtain walls, serves a dual purpose of sunshading and ensuring a continuous fluidity within the space. The axonometric ceiling designs, complementing the archways, infuse the warmth and earthiness of wood into the overall design, fostering cohesiveness and harmony. This design approach radiates calmness in the waiting area, offering a positive distraction for a more comforting atmosphere.

The hallway continues the design theme with archways featuring curved sliding wooden doors, enhancing fluidity from the waiting area and serving as a guiding element for wayfinding. Key areas like the nurse station, check out area and managers room are centrally placed for efficient wayfinding.

Moving to the back, the exam room, while minimal to meet healthcare requirements, deviates from the conventional setting through the integration of plants, soothing colors, and wellness oriented designs. Employees benefit from the well-designed staff lounge and mothers' rooms, developed to promote their well-being and offer a respite environment.



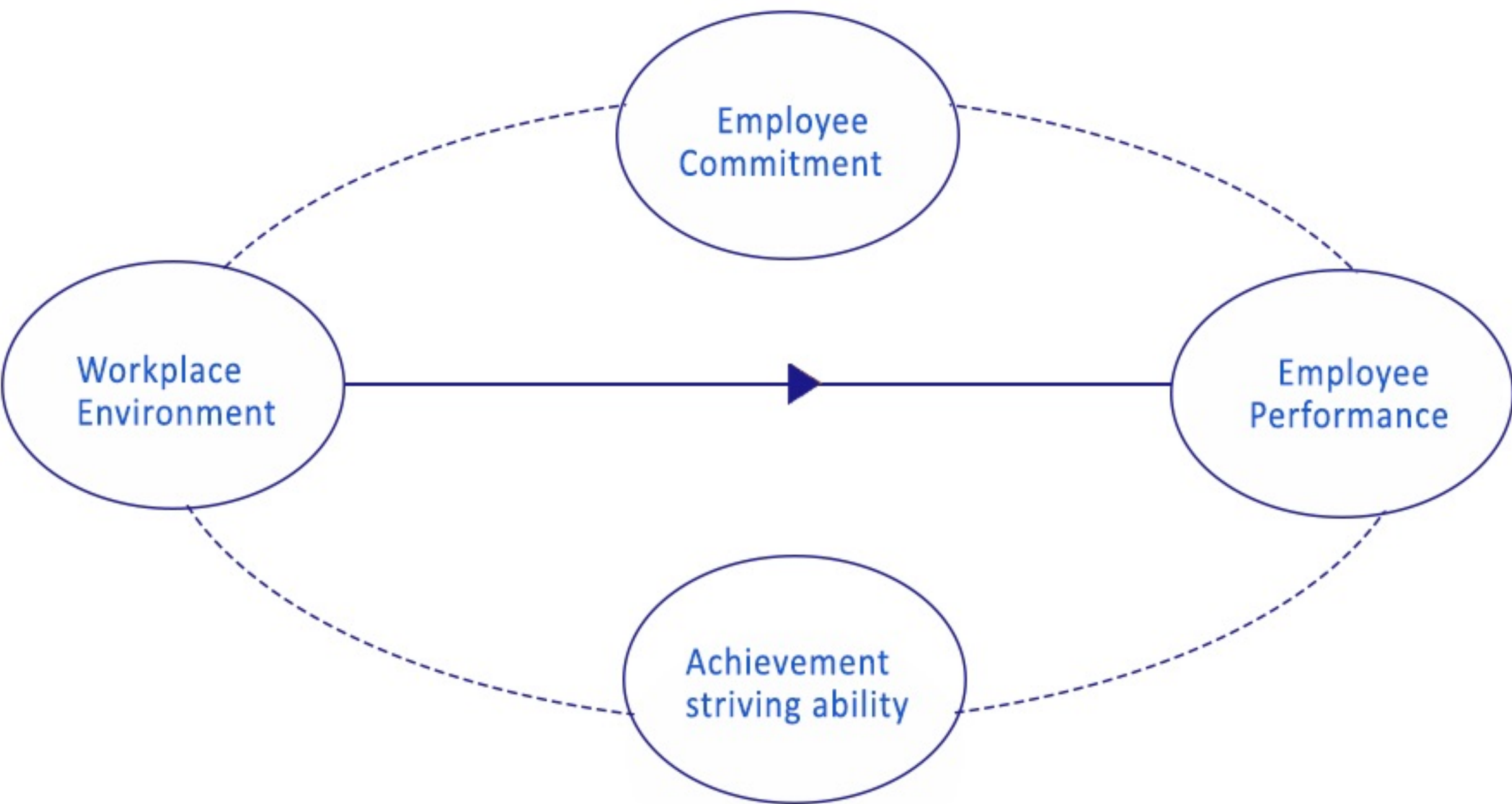
GRADUATE PROJECT RESEARCH

Co-Working Space

The primary focus of the project is the office space, which encompasses 15000 sq.ft. This area will serve as the central hub for the company's operations and will be designed to accommodate various departments and teams. The office space will feature modern workstations, meeting rooms, collaboration zones, and amenities to support productivity and creativity. It will be carefully designed to ensure optimal ergonomics, comfort, and functionality for the employees. The layout and design of the office space will encourage teamwork, idea sharing, and a sense of community.

Purpose: The office spaces are designed to provide a productive and collaborative environment for individuals and teams to work efficiently.

Study of the Design Problem

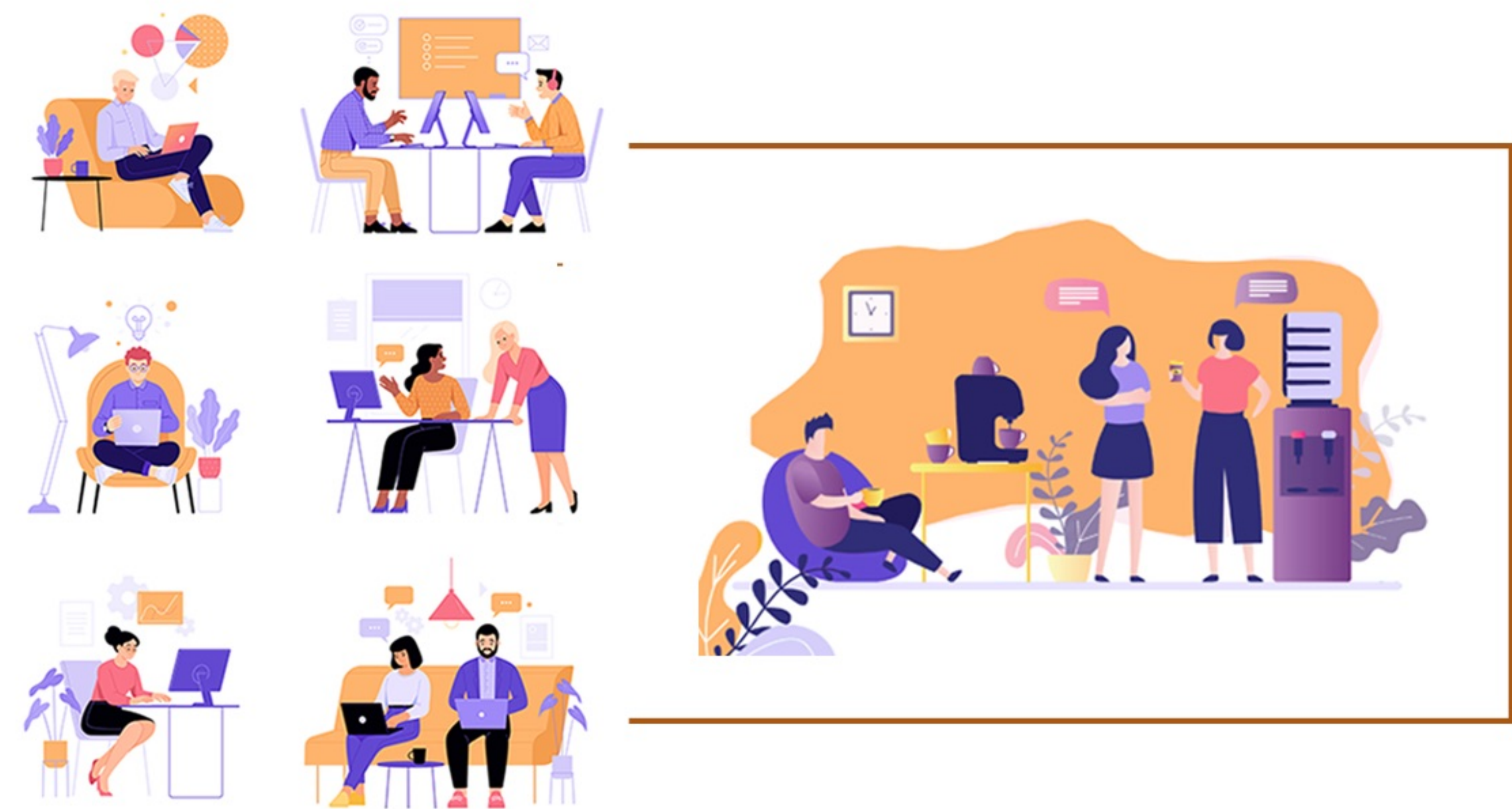


A recent research has been done which links the Impact of Employees' Workplace Environment on Employees' Performance. The research underscores the role of social exchanges as triggers for motivational activities within organizational cultures, fostering positive behaviors, particularly in the form of heightened employee commitment. (Zhenjing et al., 2022).

Spatial Design and Workplace Theory:

Space syntax theory can be linked to the workplace in various ways, as it provides a framework for understanding how the spatial layout and configuration of a workplace can influence human behavior and interaction. Space syntax analysis can help optimize the spatial layout of the workplace to enhance productivity (Rashid et al., 2006), inform the design of workplaces that encourage connectivity and collaboration among employees (Penn, 2003). Space syntax analysis can also contribute to the creation of pleasant and efficient work environments, which can impact employee satisfaction (De Been & Beijer, 2014).

Biophilia Hypothesis, which deals with nature, has been linked to increase productivity in workplaces (Larsen et al., 1998), promoting recovery (Park & Mattson, 2009, Baldwin, 2012), and relieving stress (Ulrich et al., 1991, Taylor, 2006, Berman et al., 2008).



In the layout planning process, the designers often aim to leverage the '**Proximity effect**,' a social psychology theory from the 1950s suggesting that frequent encounters between individuals increase the likelihood of forming friendships. Recognizing the strong correlation between personal interactions, performance, and innovation, the spaces are strategically designed to maximize spontaneous encounters. Expansive outdoor areas situated between floors are intended to attract workers to communal spaces, fostering interactions between different departments or sectors. It is anticipated that these shared spaces will encourage mingling and believe that the most creative ideas emerge not from sitting in front of a monitor but from the spontaneous collisions of people.

Innovation Labs

The concept of "innovation and creative labs," is a characterized configurations designed to make organizations receptive to external creative influences while fostering the generation and promotion of knowledge and innovations (Smidt et al., 2014). In order to entice entrepreneurs and freelancers to engage with these workspaces, specific advantages are presented to prospective users. These advantages encompass diverse social environments, opportunities for networking, and spaces conducive to learning and the exchange of knowledge (Carbal and Winden, 2018).

The design of innovation labs varies depending on the funding institution, but many share common features aimed at fostering group creativity, as outlined by Lewis and Moultrie (2005). Notably, the physical layout of these centers is distinctive, featuring curved walls, multiple working rooms, round tables, exhibition spaces, and refreshment areas. These design elements are purposefully chosen to create an environment conducive to out-of-the-box thinking by deviating from traditional rectangular rooms and tables.

Beyond structural features, innovation labs employ a mix of high- and low-tech tools to support creative articulation and group collaboration. Examples include whiteboards, electronic brainstorming systems, small cinematic theaters, multimedia projection tools, and expert facilitators. Facilitation in a group problem-solving context is crucial for influencing productivity and effectiveness (Offner, Kramer & Winter, 1996).



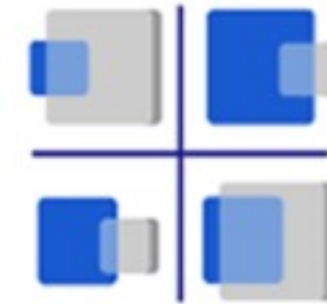
Source: <https://www.steelcase.com/asia-en/spaces/work-better/#new-design-principles>



Me + We
Equally support individual and team work



Fixed to Fluid
Design for greater flexibility and mobility



Open + Enclosed
More enclosed "me" and more open "we" spaces



Braiding Digital + Physical
Enhance the human experience through technology

Conclusion/Findings

Innovative layout: The office layout can be designed to encourage spontaneous interactions and collaboration, breaking away from traditional cubicles by incorporate open spaces, breakout zones, and flexible workstations to support different work styles.

Employee-Focused Amenities: Amenities such as comfortable break area s, a well-equipped kitchen, and potentially fitness or relaxation spaces, napping pods for relaxation, gaming rooms for the groupbonding activities can promote the employee well-being.

Use of Urban Context: The vibrant urban surroundings can be leveraged by incorporating large windows, offering natural light, and potentially using local art and design elements that resonate with the locale and the employees.

Networking: Spaces can be created that can be transformed for events, workshops, and presentations. This supports the goal of impressing potential investors and fostering a dynamic environment for employees. These event spaces are flexible spaces which can be transformed easily to cater the number and needs of the employees through folding and sliding walls.

Fostering creativity and Innovation: Recognizing the perpetual innovation in the field, employee growth is seen as synonymous with company advancement. A proposed research-based group for each supported tech stack aims to stimulate innovation by presenting their noteworthy findings on a rotating weekly basis, with engineers invited to participate in various roles, responsible for setting constraints, developing style guides, providing tutorials, and promoting innovation and coding standards within the company.

Retaining Top Talents: Organizing a hackathon for interns, assigning them the roles of tech lead and project manager to develop a new product idea for the company. With senior engineers as mentors, the interns will collaborate with existing engineering teams over three days to create minimal viable products, culminating in a final presentation to the entire company.