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Branching Thoughts
Verzweigende Gedanken

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Masterarbeit schriftlicher Teil zur Masterarbeit
Zur Erlangung des akademischen Grades
MA

Betreut von
Univ.Prof.Dr.DI Sabine Pollak
Linz. 22. Jänner 2025
Unterschrift des Betreuers:

1.Abstract

Branching Thoughts is a conceptual project that transforms the idea of a traditional tree into a collaborative space for creativity and community engagement. This interactive installation, designed using recycled materials, invites participants to share ideas directly on the structure, fostering a collective exchange of thoughts without the need for disposable paper.

The project draws inspiration from the "Wall of Kindness" concept, emphasizing sustainability and the power of shared experiences. The tree-like structure, constructed to resemble natural branching forms, acts as a symbolic representation of growth, connection, and the potential of ideas to intertwine and evolve.

By allowing individuals to write, erase, and rewrite their contributions, Branching Thoughts creates a dynamic and inclusive environment. This initiative bridges the gap between art and function, encouraging reflection on environmental responsibility while celebrating the collaborative spirit of human creativity.

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2.Introduction

2.1 Background

The generation and sharing of ideas form the foundation of innovation. However, traditional methods often rely heavily on digital tools or verbal collaboration, missing opportunities for deeper physical interaction. With increasing awareness of sustainability, the role of materials and their integration into creative spaces has gained prominence.

"Art is not a thing, it is a way." – Elbert Hubbard

The Branching Thoughts project was conceptualized to address this gap. By drawing inspiration from the interconnected growth of tree branches, the project transforms a symbolic natural form into a functional space for collaborative ideation. This approach reintroduces physical interaction as a vital element of creative processes, encouraging participants to engage with a tactile and visually engaging environment made from recycled materials.

This thesis situates Branching Thoughts at the intersection of creativity, sustainability, and public collaboration, redefining how ideas can grow, connect, and evolve through shared participation.

2.2 Problem Statement

While digital tools enhance accessibility, they often lack the tactile and interactive engagement necessary for fostering spontaneous collaboration. This thesis addresses how physical spaces, inspired by nature and built with sustainable materials, can redefine traditional methods of idea generation.

2.3 Objectives

The objectives of this thesis are:

- To design an interactive physical space for idea generation.
- To integrate recycled and sustainable materials into the project design.
- To explore how public collaboration and interaction can foster creativity.

2.4 Research Questions

This thesis explores the following research questions:

1. How do physical, interactive spaces influence the process of idea generation compared to traditional methods?
2. What role do sustainable materials play in enhancing the impact of collaborative design projects?
3. How can public engagement be encouraged through tactile design?

2.5 Structure of the Thesis

This thesis is structured as follows:

- **Chapter 3: Literature Review**
  This chapter reviews key literature on conceptual design, sustainable practices, and traditional idea-generation methods.
- **Chapter 4: Methodology**
  The methodology chapter outlines material selection, the design process, and planned prototype development.
- **Chapter 5: Analysis and Results**
  This chapter present the proposed design description and its functional aspects.
- **Chapter 6: Discussion**
  The discussion focuses on design challenges, success criteria, and the implications for future projects.
- **Chapter 7: Conclusion and Outlook**
  The final chapter summarizes the findings and explores potential future improvements.

3.Literature Review

3.1 Conceptual Design and Creative Spaces

The design of physical spaces plays a significant role in fostering creativity. According to Gude (2004), environments that facilitate interaction and incorporate postmodern principles of community engagement encourage innovative thinking. By combining functionality with artistic expression, spaces such as *Branching Thoughts* create opportunities for spontaneous collaboration.

3.2 Sustainable Materials and Practices

The increasing focus on sustainability has highlighted the importance of integrating recycled materials into design projects. As Hockerts (2015) notes, sustainable practices are not just environmentally responsible but also foster community awareness and engagement. Utilizing recycled materials reduces waste and aligns creative spaces with global sustainability goals, making the design both practical and ethical.

"Sustainability is no longer about doing less harm. It’s about doing more good." – Jochen Zeitz

In the context of Branching Thoughts, the use of recycled materials ensures that the project aligns with modern sustainability standards while also serving as a model for environmentally conscious design.

3.3 Interactive and Tactile Design

Interactive spaces offer a multisensory experience, bridging the gap between physical and digital methods. Tactile designs engage participants on a deeper level, encouraging not only observation but also active participation. Projects like the "Wall of Kindness" demonstrate how simple, interactive designs can foster collaboration and social engagement in public spaces.

"Tell me and I forget. Teach me and I remember. Involve me and I learn." – Benjamin Franklin

The Branching Thoughts project builds on these principles by creating a tree-like structure that invites participants to physically contribute their ideas. This tactile engagement makes the process of idea generation more inclusive and dynamic, allowing participants to feel a sense of ownership and connection to the shared space.

3.4 Creative Thinking Methods

Creative thinking methods offer structured approaches to idea generation and problem-solving, essential for fostering innovation in various fields. This section explores ten notable methods, analyzing their advantages and limitations, supported by academic references.

1. Brainstorming

- **Description**: A group activity where participants generate ideas without immediate judgment.
- **Advantages**:
    - Encourages diverse contributions and uninhibited creativity.
    - Fosters collaboration in group settings.
- **Limitations**:
    - Can lead to groupthink or domination by extroverted participants.
    - May overwhelm quieter individuals.
- **Academic Reference**: Osborn, A. F. (1957). *Applied Imagination: Principles and Procedures of Creative Thinking*. New York: Scribner.

Figure 1 A brainstorming session in a modern workspace, illustrating the collaborative process of generating creative ideas.

2. Mind Mapping

- **Description**: A visual technique to organize ideas around a central concept.
- **Advantages**:
  - Encourages exploration of interconnected ideas.
  - Makes relationships between concepts easier to understand.
- **Limitations**:
  - Can become too complex with large groups.
  - May not suit those who prefer linear thinking.
- **Academic Reference**: Buzan, T. (1974). *Use Your Head*. London: BBC Books.

3. SCAMPER

- **Description**: A technique that prompts participants to explore ideas through Substitute, Combine, Adapt, Modify, Put to other uses, Eliminate, and Reverse.
- **Advantages**:
  - Systematic and practical for refining or improving ideas.
  - Encourages innovation through structured exploration.
- **Limitations**:
  - Requires familiarity with the subject or problem.
  - May feel rigid for highly abstract thinkers.
- **Academic Reference**: Eberle, B. (1996). *SCAMPER: Games for Imagination Development*. Waco, TX: Prufrock Press.

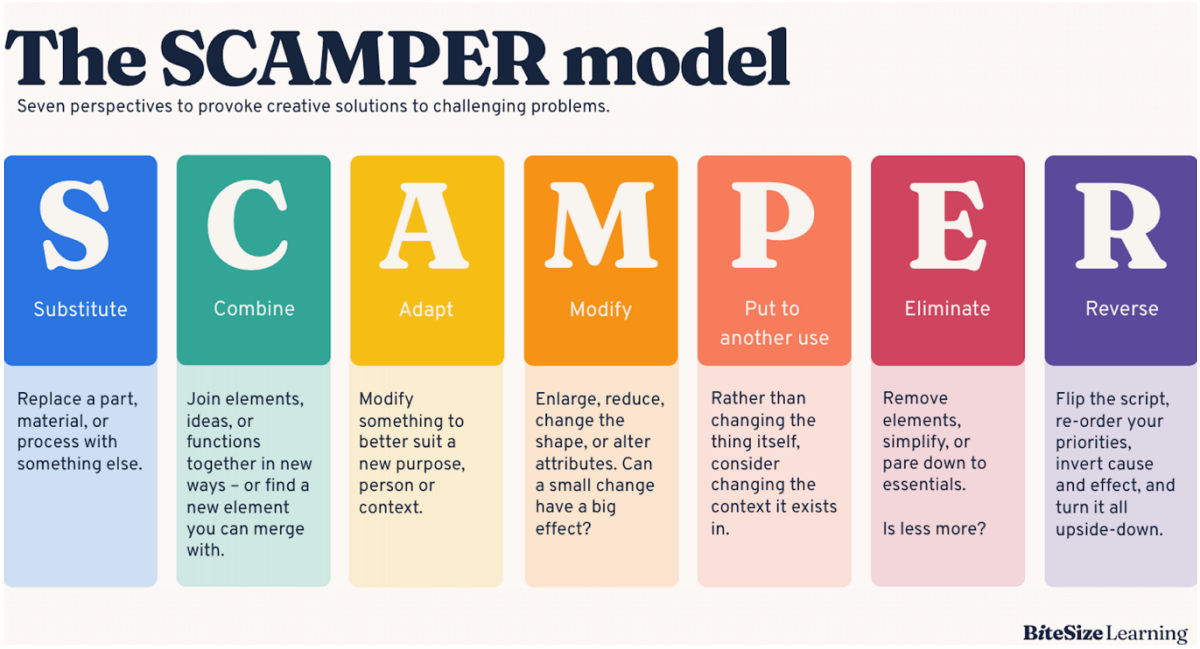

Figure 2The SCAMPER Model, a framework for creative problem-solving, outlining seven techniques: Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, and Reverse.

4. Six Thinking Hats

- **Description**: A method where participants adopt different "hats" representing various perspectives (e.g., critical, optimistic, creative).
- **Advantages**:
  - Promotes holistic thinking by exploring multiple viewpoints.
  - Provides structure to group discussions.
- **Limitations**:
  - Time-consuming for large groups.
  - Requires discipline to stay in "hat roles."
- **Academic Reference**: de Bono, E. (1985). *Six Thinking Hats*. Boston: Little, Brown, & Company.

Figure 3The Six Thinking Hats, a concept by Edward de Bono (1985), illustrating six distinct approaches to thinking for problem-solving and decision-making.

5. Storyboarding

- **Description**: A method of visually planning ideas step-by-step using drawings or images.
- **Advantages**:
  - Helps clarify complex processes visually.
  - Effective for creative industries and team projects.
- **Limitations**:
  - Time-intensive to create detailed storyboards.
  - May not work well for abstract concepts.
- **Academic Reference**: Hart, J. (1999). *The Art of the Storyboard: A Filmmaker's Introduction*. Boston: Focal Press.

6. Rapid Prototyping

- **Description**: Creating tangible models of ideas to test and refine them quickly.
- **Advantages**:
  - Provides immediate feedback and encourages experimentation.
  - Brings abstract ideas into practical reality.
- **Limitations**:
  - Requires resources for materials and tools.
  - Not suitable for all types of projects.
- **Academic Reference**: Ries, E. (2011). *The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses*. New York: Crown Business.

7. Role-Playing

- **Description**: Participants act out scenarios to explore ideas or solve problems.
- **Advantages**:
  - Engages participants emotionally and encourages empathy.
  - Creates a dynamic, interactive environment.
- **Limitations**:
  - May feel uncomfortable for some participants.
  - Limited applicability for abstract or technical problems.
- **Academic Reference**: Goffman, E. (1956). *The Presentation of Self in Everyday Life*. Edinburgh: University of Edinburgh Social Sciences Research Centre.

8. Dot Voting

- **Description**: Participants vote on ideas by placing dots on their preferences.
- **Advantages**:
  - Encourages democratic participation in idea selection.
  - Quickly identifies popular options.
- **Limitations**:
  - Doesn’t capture reasoning behind votes.
  - Can oversimplify decision-making.
- **Academic Reference**: Gray, D., Brown, S., & Macanufo, J. (2010). *Gamestorming: A Playbook for Innovators, Rulebreakers, and Changemakers*. Sebastopol, CA: O'Reilly Media.

9. Design Thinking

- **Description**: A human-centered approach focusing on empathy, ideation, and prototyping.
- **Advantages**:
    - Effective for user-centric design challenges.
    - Combines creativity with practical problem-solving.
- **Limitations**:
    - Time-consuming and resource-intensive.
    - Requires skilled facilitation for optimal results.
- **Academic Reference**: Brown, T. (2009). *Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation*. New York: Harper Business.

3.5 Inspirations

1. Wall of Kindness

The **Wall of Kindness** (*Dīvār-e Mehrabānī*) is a charitable initiative that began in Mashhad, Iran, around 2015. It involves installing hooks, hangers, or racks in public spaces where people can leave clothing and other essential items for those in need. The walls often feature the motto: "Leave what you don't need" and "Take what you do"

The movement gained international attention for its simplicity and humanity.

As described in *The Guardian*, the Wall of Kindness became a powerful symbol of generosity and community action in Iran, particularly during harsh winters *(Dehghan, 2016)*. Its simplicity resonated with citizens and inspired similar projects worldwide. The initiative's global relevance is also highlighted by *LinkedIn Pulse*, which views it as a sustainable startup idea fostering humanity and love. Beyond Iran, the Wall of Kindness concept has been replicated in countries such as Pakistan, India, and China, showcasing its universal appeal *(LinkedIn Pulse, n.d.)*.

The Wall of Kindness exemplifies how simple, community-driven actions can address social issues and foster a culture of empathy and generosity. By transforming public spaces into hubs of charitable exchange, these walls encourage individuals to contribute to the well-being of their communities.

*Figure 4*This image depicts a 'Wall of Kindness' in Iran, where clothes are hung for those in need.*

The Wall of Kindness deeply resonated with me as an example of how physical spaces can foster collaboration, connection, and a sense of community. Its simplicity—allowing people to leave something behind and take what they need—is not just practical but symbolic of mutual support and shared responsibility.

This concept became a pivotal inspiration for *Branching Thoughts*. Just as the Wall of Kindness transforms everyday walls into meaningful community hubs, I wanted to create a space where ideas, instead of material goods, could be exchanged. The interactive tree-like structure of *Branching Thoughts* invites people to "leave their thoughts" for others to see, take, and build upon—mirroring the generosity and collaboration embodied by the Wall of Kindness.

The symbolic use of branches reflects the growth and interconnectedness of human ideas, extending the Wall of Kindness concept into the realm of creativity and intellectual exchange. This inspiration guided both the design and purpose of the project, aiming to foster collaboration, sustainability, and shared creativity.

2. Before I Die

The Before I Die project is a global participatory art initiative started by artist Candy Chang in 2011. It began as a response to her personal grief and desire to turn public spaces into areas of reflection and community interaction. The project consists of large chalkboards installed in public spaces, each featuring the prompt: "Before I die, I want to..." Participants are invited to complete the sentence by writing their aspirations, dreams, and reflections in chalk.

Since its inception, the project has grown into a global phenomenon, with over 5,000 walls created in 78 countries and translated into more than 35 languages (Before I Die Project).

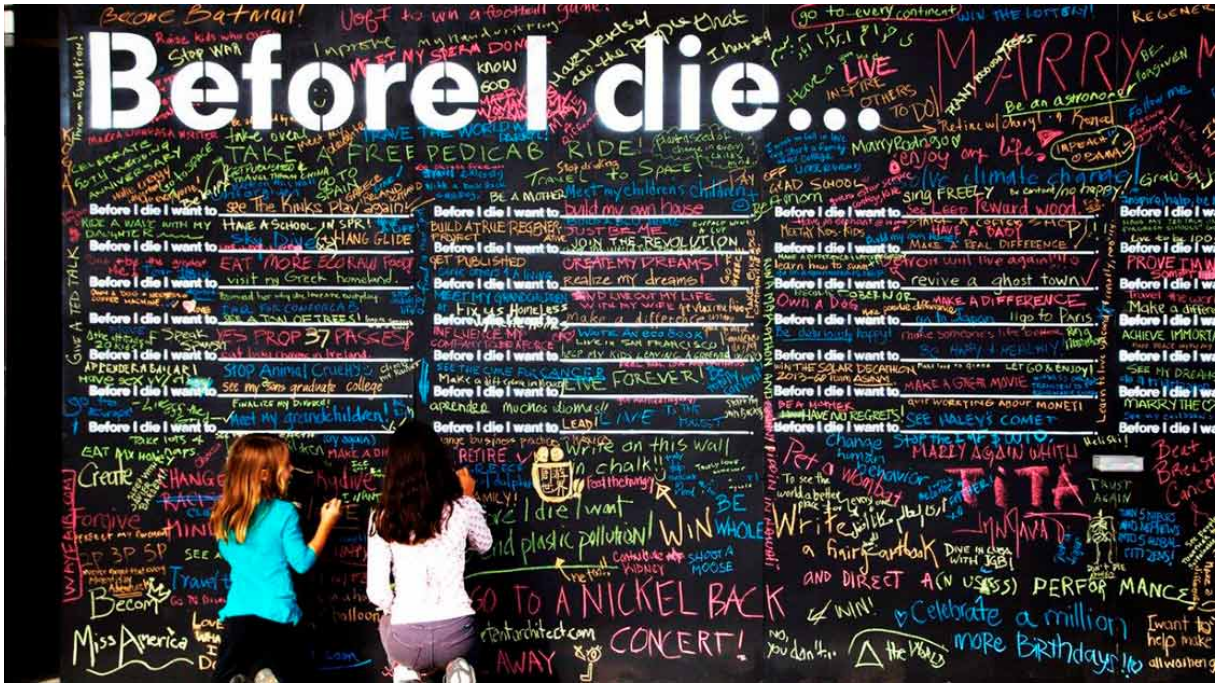

Figure 5 A 'Before I Die' wall created by Candy Chang, where participants share personal aspirations and dreams through written messages.

Examples of Impact:

Community Reflection: In cities like New Orleans and Mumbai, the walls became spaces for individuals to share intimate hopes and dreams, creating a sense of connection among strangers.

Emotional Healing: The project has been used in hospitals, prisons, and schools, helping participants explore their aspirations and find emotional release.

Global Reach: Walls have appeared in diverse settings, from urban areas to remote villages, demonstrating the universality of the human desire to reflect and connect.

How It Inspired Branching Thoughts

The Before I Die project inspired me through its ability to transform public spaces into collaborative and reflective environments. Its simplicity—providing a blank canvas for people to share their thoughts—resonated deeply with the goals of Branching Thoughts.

While the Before I Die walls focus on personal aspirations, I envisioned Branching Thoughts as a space for collective creativity and idea-sharing. The writable, erasable surfaces of the tree-like structure mirror the interactive and participatory nature of the Before I Die walls, allowing participants to contribute, modify, and expand upon ideas.

Moreover, the public and collaborative aspect of Before I Die inspired the design of Branching Thoughts as a platform for fostering meaningful interactions. By providing a physical space where ideas can grow and intertwine, the project extends the reflective and communal spirit of Before I Die into a realm of shared intellectual and creative exchange.

Figure 6A 'Before I Die' wall in New Orleans, USA, created by Candy Chang, inviting individuals to share their aspirations and dreams through a public chalkboard.

4. Methodology

4.1 Design Process

The design process for Branching Thoughts is rooted in thorough conceptual planning and iterative refinement to ensure the project's objectives are met. This process involves:

1. **Concept Development**:
   Initial ideas were translated into sketches and mockups, emphasizing a tree-like structure that facilitates interactive and collaborative engagement. These visualizations aimed to balance aesthetics, functionality, and sustainability.
2. **Material Investigation**:
   An in-depth exploration of sustainable and recycled materials was conducted to identify options that align with the project's emphasis on environmental consciousness. Criteria such as durability, ease of use, and visual compatibility with the design were prioritized.
3. **Design Iteration**:
   The design underwent multiple iterations based on insights from literature, theoretical frameworks, and similar case studies. This stage focused on refining the visual and structural aspects of the concept to ensure it achieves the intended interactive experience.

"Every great design begins with an even better story." – Lorinda Mamo

4.2 Materials and Tools

The selection of materials and tools plays a critical role in realizing the Branching Thoughts project. The materials are chosen based on their alignment with the project's emphasis on sustainability, functionality, and aesthetic appeal. Key considerations include:

1. **Sustainable Materials**:
   - Recycled wood: Selected for its natural aesthetic and durability.
   - Metal fasteners: To provide structural stability while ensuring reusability.
   - Chalkboard or whiteboard surfaces: To allow participants to write and erase ideas easily, reducing the need for disposable materials.
2. **Innovative Tools**:
   - Digital design software (e.g., Blender): Used to create 3D visualizations of the structure, ensuring precision and design feasibility.
   - Hand tools: For assembling and manipulating the chosen materials.

These choices aim to balance the project's artistic vision with its commitment to sustainability, ensuring that the final structure is both functional and environmentally responsible.

4.3 Construction Techniques

The construction techniques for the Branching Thoughts project are designed to reflect both sustainability and practicality. While the final structure is yet to be built, the planned methods emphasize adaptability and environmental responsibility.

1. **Modular Assembly**:
    - The design incorporates modular components, allowing for ease of assembly and disassembly.
    - This approach facilitates transportation, scalability, and potential reuse in other contexts.
2. **Non-Permanent Fixing**:
    - Recycled materials are joined using techniques that avoid permanent adhesives, such as screws, clamps, or interlocking mechanisms.
    - This ensures that the components can be disassembled and reused, aligning with the project's sustainability goals.
3. **Surface Treatment**:
    - Writable surfaces, such as chalkboards or whiteboards, will be treated with durable finishes to maintain usability over time.
    - This step ensures that participants can write and erase ideas repeatedly without degrading the structure.

5. Project Description

5.1 Conceptual Framework

The Branching Thoughts project is built upon the idea of creating a physical representation of collaborative thought and creativity. The conceptual framework draws inspiration from natural forms, particularly trees, which symbolize growth, interconnectedness, and the organic evolution of ideas.

Key principles of the conceptual framework include:

1. **Nature as Inspiration**:
    - Trees, with their branching forms, are used as a metaphor for the growth and intertwining of human ideas.
    - The structure emphasizes simplicity and harmony with the environment.
2. **Collaboration and Interaction**:
    - The project prioritizes participation, encouraging individuals to contribute their ideas directly onto the structure.
    - By fostering collaboration, the project creates a collective, ever-evolving "space of ideas."
3. **Sustainability as a Core Value**:
    - The use of recycled materials reflects the project's commitment to environmental consciousness.
    - It serves as a model for integrating sustainability into creative practices.

This conceptual foundation shapes the design and implementation of Branching Thoughts, ensuring that its physical and symbolic elements align with the project's goals.

5.2 Structure and Design Details

The *Branching Thoughts* project is designed as a tree-inspired installation that combines functionality with artistic expression. The structure emphasizes accessibility, sustainability, and interaction, aligning with the project's core principles.

1. **Tree-Inspired Form**:
    - The design mimics the natural branching of a tree, symbolizing the organic growth and connection of ideas.
    - The height is limited to 2.1 meters, ensuring it is accessible to participants of varying heights.
2. **Core Materials**:
    - Recycled wood serves as the primary material for the trunk and branches, providing durability and a natural aesthetic.

    - Writable surfaces, such as erasable whiteboards or chalkboards, are integrated into the branches to allow participants to share their ideas.
3. **Assembly and Modularity**:
    - The structure is modular, allowing for easy assembly, disassembly, and transport.
    - The branches are designed to be removable, enabling the structure to adapt to different spaces or requirements.
4. **Interactive Features**:
    - Participants can write, erase, and rewrite their ideas directly onto the writable surfaces, fostering an iterative and collaborative creative process.
    - Magnets or clips may be used to attach additional materials, such as notes or drawings, to the branches.

By blending form and function, the design of *Branching Thoughts* aims to create an engaging and collaborative space that inspires creativity while promoting sustainability.

5.3 Interaction and Accessibility

The *Branching Thoughts* project is designed to maximize user engagement through thoughtful interaction and accessibility features. These elements ensure that participants from diverse backgrounds can comfortably contribute to and benefit from the installation.

1. **Interactive Participation**:
    - Writable surfaces integrated into the branches enable participants to directly contribute their ideas, fostering a hands-on and iterative creative process.
    - The erasable feature ensures reusability, allowing ideas to evolve without producing waste.
    - Magnetic or clip-based attachments allow users to contribute drawings, notes, or other creative inputs, expanding the range of interaction possibilities.
2. **Accessibility Features**:
    - The structure's height is capped at 2.1 meters, ensuring that it is easily reachable for individuals of various heights, including children and wheelchair users.
    - Branches are angled strategically to provide ergonomic writing surfaces for participants standing or seated.
3. **Inclusive Design**:
    - The tactile nature of the installation caters to a wide range of participants, including those with limited digital literacy.
    - Clear visual cues and simple functionality ensure that the project is intuitive and user-friendly.

By prioritizing interaction and accessibility, *Branching Thoughts* creates an inclusive space where creativity can flourish, fostering a sense of community and shared ownership among participants.

6.Results and Discussion

6.1 Achievements

The Branching Thoughts project has achieved significant milestones in its conceptual and design stages:

1. **Conceptual Innovation**:
    - Successfully developed a unique interactive installation that integrates sustainability, creativity, and collaboration.
    - The tree-inspired design symbolizes growth and interconnectedness, aligning with the project's goals.
2. **Sustainability Integration**:
    - Recycled materials have been prioritized in the design phase, highlighting the importance of environmental consciousness in creative projects.
3. **Accessibility and Inclusivity**:
    - The structure's ergonomic and modular design ensures accessibility for participants of varying abilities and demographics.

These achievements lay a strong foundation for the project's future implementation, demonstrating its potential to foster collaboration and environmental responsibility.

6.2 Challenges

The development of the *Branching Thoughts* project has encountered several challenges that highlight the complexities of balancing functionality, aesthetics, and sustainability:

1. **Material Sourcing**:
    - Identifying recycled materials that are both durable and visually appealing has been a time-intensive process.
    - Ensuring the materials meet the structural requirements without compromising on sustainability remains an ongoing challenge.
2. **Structural Stability**:
    - Designing a tree-like structure that is both stable and modular presents technical difficulties, particularly in maintaining balance and durability.
3. **Interactive Features**:
    - Integrating writable and erasable surfaces that are user-friendly while resistant to wear and tear requires careful material testing and selection.
4. **Scalability**: Ensuring that the modular design can be adapted for larger installations or varying contexts without compromising usability or accessibility poses additional challenges.

Despite these challenges, they also provide opportunities for creative problem-solving and iterative refinement of the design.

6.3 Feedback and Observations

As the Branching Thoughts project progresses through its conceptual development, observations from similar projects and theoretical studies have provided valuable insights:

1. **The Role of Interaction**:
    - Research indicates that tactile and physical interaction significantly enhances creativity and engagement, reaffirming the importance of incorporating writable and erasable surfaces in the design.
2. **Sustainability as a Strength**:
    - Observations from case studies of installations using recycled materials highlight the growing appeal and impact of environmentally conscious design in public spaces.
3. **Participant Experience**:
    - Feedback from comparable projects, such as the "Wall of Kindness," emphasizes the need for simplicity and intuitive design to maximize participation.
4. **Scalability and Versatility**:
    - Modular and adaptable structures have been shown to perform well in diverse settings, supporting the feasibility of scaling Branching Thoughts for larger audiences or different contexts.

While direct feedback from participants is not yet available, these observations provide a foundation for refining the project during its implementation phase.

7. Conclusion

7.1 Summary of Ideas

The Branching Thoughts project successfully integrates sustainability, creativity, and collaboration into a conceptual installation that redefines traditional methods of idea generation. By drawing inspiration from tree-like structures, the project creates a physical space where participants can engage interactively and contribute to a collective exchange of ideas.

Key achievements of the project include:

1. **Sustainability**: A commitment to using recycled materials highlights the project's alignment with environmental consciousness.
2. **Interactivity**: Writable and erasable surfaces foster active participation and encourage iterative idea-sharing.
3. **Accessibility**: An inclusive design ensures that individuals from diverse demographics can engage with the structure.

By addressing the challenges of traditional brainstorming methods, Branching Thoughts bridges the gap between artistic expression and practical functionality, paving the way for future projects to combine these elements in meaningful ways.

7.2 Future Prospects

The Branching Thoughts project offers numerous opportunities for future development and application. Building upon the current conceptual framework, the following prospects have been identified:

1. **Prototype Development**:
    - Moving from the conceptual phase to the construction of a physical prototype will provide valuable insights into the project's feasibility and functionality.
2. **Digital Integration**:
    - Incorporating digital elements, such as interactive screens or augmented reality features, could expand the project's scope and enhance user engagement.
3. **Expanded Applications**:
    - The modular design allows the installation to be scaled for various contexts, such as public spaces, educational institutions, or community-driven initiatives.
4. **Sustainability Research**:
    - Further exploration of innovative recycled materials and eco-friendly practices could strengthen the project's environmental impact and serve as a model for future creative endeavors.
5. **Community Engagement**:
    - Collaboration with local communities during implementation could enhance the project's cultural relevance and foster a deeper connection with participants.

These future directions ensure that Branching Thoughts remains a dynamic and adaptable project, capable of evolving to meet new challenges and opportunities.

Figure 7"The visuals of tree-like structures included here were created using AI-generated tools to conceptualize the project design."

Figure 8"The visuals of tree-like structures included here were created using AI-generated tools to conceptualize the project design."

Figure 9"The visuals of tree-like structures included here were created using AI-generated tools to conceptualize the project design."

Figure 10"The visuals of tree-like structures included here were created using AI-generated tools to conceptualize the project design."

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Acknowledgments

I would like to express my deepest gratitude to my professor, Univ. Prof. Dr. DI Sabine Pollak, for her invaluable guidance, encouragement, and support throughout this thesis. Her insights and feedback have been instrumental in shaping the direction and depth of this project.

I am immensely grateful to my family, especially my brother, whose unwavering support and belief in me have been a constant source of strength. To my girlfriend, thank you for your patience, love, and encouragement during the most challenging moments of this journey.

I would also like to extend my heartfelt thanks to Univ.-Prof. Ton Matton, Xian Zheng, Ph.D., Seth Weiner, Frau Kliment, Gertraud, and Alireza Karkhaneh for their inspiration, mentorship, and contributions that have greatly influenced my creative and academic endeavors.

Finally, this work would not have been possible without the collective efforts, encouragement, and collaboration of everyone who has supported me along the way.