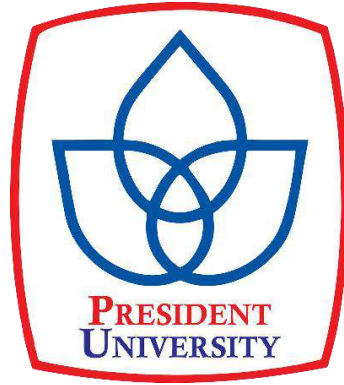




**DESIGNING CO-LIVING SPACES: OPTIMISING
SPACE FUNCTION FOR THE COLLECTIVE
NEEDS OF FAMILIES AND COMMUNITIES**

UNDERGRADUATE FINAL PROJECT

**Submitted as one of the requirements to obtain Sarjana Desain
(S.Ds.)**

By

Mochamad Fadly Firdaus

025202200011

**INTERIOR DESIGN
FACULTY OF ART, DESIGN AND ARCHITECTURE
PRESIDENT UNIVERSITY
CIKARANG
2025**

SIMILARITY CHECKING RESULT

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FUNCTION FOR THE COLLECTIVE NEEDS OF FAMILIES AND ...**

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ABSTRACT

The rapid growth of co-living as a contemporary housing concept in urban areas has created an urgent need for interior design strategies that can accommodate the diverse lifestyles, activities, and backgrounds of its residents. This study focuses on optimizing the design of shared spaces in community-based co-living environments, with the primary objective of enhancing comfort, social interaction, and spatial flexibility. The research adopts the *Design-Based Research* (DBR) method, which integrates five stages: contextual problem analysis, formulation of initial design solutions, implementation and exploration through semi-structured interviews and participatory observation, reflection and refinement of design iterations, and final evaluation based on comfort, functionality, and social usability indicators. The findings reveal that major design challenges include the absence of clear spatial zoning, limited natural lighting, suboptimal ventilation, and the inflexible use of fixed, non-modular furniture. These issues were addressed through the application of ergonomic principles, the integration of balanced natural and artificial lighting strategies, and the introduction of flexible, modular furniture to support dynamic spatial arrangements. Furthermore, the adoption of the Japandi style—combining minimalist Japanese aesthetics with the warmth and functionality of Scandinavian design—proved effective in creating spaces that are visually calming, practical, and conducive to both productivity and communal interaction. In conclusion, this research demonstrates that DBR provides a robust framework for generating contextual, adaptive, and applicable interior design solutions for co-living environments. The proposed design not only achieves aesthetic value but also strengthens the role of shared spaces as collective hubs that promote community engagement, personal comfort, and modern communal living.

Keywords: Co-living, Residential, Communal, Co-housing, Collective

PREFACE

First and foremost, I would like to express my deepest gratitude to God Almighty for His blessings, grace, and strength that have enabled me to complete this thesis successfully. This work represents not only an academic requirement but also the culmination of a meaningful journey filled with challenges, learning, and invaluable support from many people.

I am sincerely grateful to my beloved family for their endless prayers, love, and encouragement. Their unwavering support has been the greatest source of strength throughout this process. I would also like to extend my heartfelt thanks to my friends and peers, whose kindness, motivation, and companionship have brought both joy and inspiration, making this journey far more meaningful.

May all the support, care, and kindness shown to me be rewarded abundantly. I realize that this thesis is not without its shortcomings, yet I hope it will contribute positively to the development of knowledge and serve as a foundation for future endeavors.

Cikarang, 19th September 2025

Mochamad Fadly Firdaus

TABLE OF CONTENT

PANEL OF EXAMINER APPROVAL.....	Error! Bookmark not defined.
THESIS ADVISOR RECOMMENDATION LETTER.....	Error! Bookmark not defined.
STATEMENT OF ORIGINALITY	Error! Bookmark not defined.
SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST	Error! Bookmark not defined.
ADVISOR’S APPROVAL FOR PUBLICATION .	Error! Bookmark not defined.
SIMILARITY CHECKING RESULT	vii
ABSTRACT.....	xi
PREFACE	xii
TABLE OF CONTENT	xiii
LIST OF TABLES.....	xv
LIST OF FIGURES.....	xvi
CHAPTER I INTRODUCTION	1
1.1 Background	1
1.2 Problem Statement	2
1.3 Objective	3
1.4 Scope	3
1.5 Research Outline	4
CHAPTER II LITERATURE STUDY	8
2.1 Object Identification.....	8
2.2 Object Standards	11
2.3 Object Standards From Interior Design	13
CHAPTER III DESIGN METHODOLOGY	23
3.1 Design Methodology.....	23
3.2 Design Framework.....	24
3.3 Case Study.....	25
3.4 User Problem Analysis.....	26
3.4.1 User Data.....	26
3.4.2 System for shared space	30
3.5 Space Problem Analysis.....	30

3.6	Design Comparative Study	33
CHAPTER IV DESIGN PROGRAM.....		36
4.1	Space Planning	36
4.1.1	Matrix.....	36
4.1.2	Relationship Diagram	37
4.1.3	Room Programming.....	39
4.1.4	Bubble Diagram	41
4.1.1	Block Plan	41
4.2	Design Concept	43
4.1.2	State the reasoning	43
4.1.3	Definition of Modern Japandi	43
4.1.4	Japandi	44
4.1.5	Modern	48
4.3	Weighted Method	52
4.4	Macro concept.....	55
4.5	Micro concept	57
CHAPTER V DESIGN IMPLEMENTATION		62
5.1	Design offer.....	62
5.1.1	Layout	62
CHAPTER VI CONCLUSION.....		71
6.1	Conclution	71
6.2	Recommendation	71
REFERENCES.....		73

LIST OF TABLES

Table 3. 1 User analysis (personal data).....	27
Table 3. 2 space analysis (personal data)	32
Table 3. 3 Comparison of two Co-living spaces (source: Casa comuna co-living)	33
Table 4. 1 Room programming (personal data)	39
Table 4. 2 Macro concept (personal data)	55
Table 4. 3 Micro concept (personal data).....	57
Table 5. 1 3D Drawing (Personal Data)	65

LIST OF FIGURES

Figure 1. 1 Casamuya is one of the co-living spaces in West Jakarta.....	2
Figure 3. 1 Framework (personal data)	25
Figure 3. 2 living space	33
Figure 3. 3 living space	33
Figure 3. 4 kitchen	34
Figure 3. 5 Kitchen.....	34
Figure 3. 6 Master bedroom.....	34
Figure 3. 7 Bedroom	34
Figure 3. 8 Lounge	34
Figure 3. 9 Common room.....	34
Figure 3. 10 Bathroom	35
Figure 3. 11 Bathroom	35
Figure 4. 1 Matrix 1 st floor (personal data)	36
Figure 4. 2 Matrix 2 nd floor (personal data)	37
Figure 4. 3 Relationship diagram 1 st and 2 nd floor (personal data)	38
Figure 4. 4 Buble diagram 1 st and 2 nd floor (personal data).....	41
Figure 4. 5 Block plan 1 st and 2 nd (personal data).....	42
Figure 4. 6 RE Residence in Paris, France (source: Vincent Van Duysen, architect)	45
Figure 4. 7 Repulse Bay Residence in Hongkong, China (Source: Norm architects).....	46
Figure 4. 8 Color palete of Japandi Style (source: personal data).....	46
Figure 4. 9 Dining's furniture & side table (Source: Norm architects).....	47
Figure 4. 10 Sofa & bench (Source: Norm architects).....	48
Figure 4. 11 Molteni & Shanghai showroom in Shanghai, China (source: Vincent Van Duysen).....	49
Figure 4. 12 Recidence in Lombardy, Italy (source: Vincent Van Daysen)	49
Figure 4. 13 Modern furniture design (source: Vincent Van Daysen,)	50
Figure 4. 14 Modern's color palette (source: Vincent Van Duysen).....	51
Figure 4. 15 Modern furniture (source: Patricia Urquiola & Vincent V.D)	52

Figure 4. 16 Holman Adobe in Copenhagen, Denmark (source: Norm architects)	52
Figure 4. 17 Living space (Source:Fran parente, Archdaily)	53
Figure 4. 18 Living space (source: pinterest)	55
Figure 4. 19 shape of design (source: pinterest)	55
Figure 4. 20 Design overview (Source: pinterest)	56
Figure 4. 21 seating area (Source: Pinterest)	56
Figure 5. 1 Zoning layout 1st floor (Source: Personal data)	62
Figure 5. 2 Zoning layout 2nd floor (Source: Personal data)	63
Figure 5. 3 Selected area 1 & 2 (Source: Personal data)	64