

## Table of Contents

Abstract .....	vii
Intisari .....	viii
Chapter i introduction .....	1
1.1 Background.....	1
1.2 Problem statement .....	3
1.3 Research objective .....	4
1.4 Research Scope .....	4
1.5 Benefit of research.....	4
1.6 Research Methodology .....	5
CHAPTER II Literature review .....	8
CHAPTER II theoretical framework .....	13
3.1 Overall project architecture .....	13
3.2 Louvain search algorithms.....	21
3.3 Graph-oriented databases.....	25
3.4 Neo4j.....	25
3.5 Orient DB.....	27
CHAPTER IV SYSTEM design .....	31
4.1 Data Integration and Data Management .....	31
4.2 system design.....	31
CHAPTER V IMPLEMENTATION.....	39
5.1 Database Implementation .....	39
5.2 Evaluation .....	45
CHAPTER vi RESULT AND DISCUSSION.....	55
6.1 Result .....	55
6.2 Discussion.....	66
CHAPTER VII conclusion.....	70
7.1 conclusion .....	70
7.2 Suggestion and future work .....	71
Reference.....	72
Appendix a source code .....	76