

TABLE OF CONTENTS

APPROVAL PAGE .....	.ii
DECLARATION.....	.iii
FOREWORD.....	.iv
ABSTRACT .....	.v
TABLE OF CONTENTS .....	.vi
LIST OF FIGURES .....	.viii
CHAPTER 1 INTRODUCTION .....	.1
1.1 Research Object .....	.1
1.1.1 PlayerUnknown's Battlegrounds .....	.1
1.1.2 Online reviews .....	.2
1.2 Research Background .....	.2
1.3 Problem Statement .....	.4
1.4 Research Question .....	.5
1.5 Research Objectives.....	.5
1.6 Research Benefit .....	.6
1.6.1 Theoretical Aspect .....	.6
1.6.2 Practical Aspect.....	.7
1.7 Research Scope .....	.7
1.8 Writing Structure .....	.7
CHAPTER 2 THEORETICAL BACKGROUND .....	.9
2.1 Theories.....	.9
2.1.1 Operation Management.....	.9
2.1.2 Product Development.....	.10
2.1.3 Customer Experience .....	.13
2.1.4 Line extension.....	.13
2.1.5 Big Data .....	.14
2.1.6 User Generated Content.....	.15
2.1.7 Data Mining .....	.15
2.1.8 Topic Modelling.....	.17
2.1.9 Sentiment Analysis .....	.17
2.2 Literature Review.....	.19
2.3 Theoretical Framework .....	.22
CHAPTER III RESEARCH METHODOLOGY .....	.23

3.1	Research Characteristic.....	23
3.2	Research Approach	24
3.3	Population and Sample.....	24
3.4	Research Process.....	25
3.5	Data Collection	27
3.6	Data Analysis	27
3.6.1	Text mining.....	27
3.6.2	Preprocessing Text.....	28
3.6.3	Sentiment Analysis	29
3.6.4	Naive Bayes Classifier	31
3.6.5	Topic Modelling.....	32
3.6.6	Model Evaluation.....	32
CHAPTER 4 RESULT AND DISCUSSION	.....	34
4.1	Data Characteristic.....	35
4.2	Topic Pre and Post-launching	35
4.2.1.	Season 10 Pre-Launching.....	36
4.2.2.	Season 10 Post-launching	38
4.2.3.	Season 11 Pre-Launching.....	41
4.2.4.	Season 11 Post-launching	43
4.3.	Pre-Launching and Post-launching Sentiment Analysis	46
4.3.1.	Season 10 Pre-Launching.....	47
4.3.2.	Season 10 Post-launching	52
4.3.3.	Season 11 Pre-Launching.....	56
4.3.4.	Season 11 Post-launching	61
4.4.	Topic Changes Analysis on Pre and Post-launching Period	65
4.5.	Discussion.....	72
CHAPTER 5 CONCLUSION AND SUGGESTION	.....	75
5.1	Conclusion	75
5.2	Suggestion.....	76
5.2.1	Suggestion for the Company	76
5.3.1	Suggestion for future research	76
REFERENCE	.....	78
ATTACHMENT	.....	82
	Preprocessing using Rstudio:.....	82
	Topic Modelling.....	83
	Sentiment Analysis on Rapidminer.....	84