

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**Critical analysis of software failure causes from project
management perspective**



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Declaration

I Syed Muhammad Waji Haider ID# 15007114017 Session 2015-2017 here by certify that this thesis is being submitted in partial fulfilment of the requirement for the MS degree in Software Engineering. This thesis is my original work and the data/ material presented here in has not been used for the acquisition of any other degree from any institution.

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TABLE OF CONTENTS

TABLE OF CONTENTS.....	6
LIST OF FIGURES	8
LIST OF TABLES	9
Chapter 1	12
1. Introduction.....	13
1.1. Overview.....	13
1.2. Problem description	16
1.3. Research Questions.....	16
1.4. Research Objectives.....	17
1.5. Thesis Outline	17
Chapter 2	18
2. Structure of thesis	19
2.1. Literature review.....	19
2.2. Problem statement.....	20
2.3. Hypothesis	20
2.4. Questionnaire	20
2.5.Results.....	20
2.6.Conclusion	21
Chapter 3	22
3. Literature Review.....	23
3.1 Introduction.....	23
Chapter 4	39
4. Research Methodology	40
4.1. Research hypothesis.....	40
4.2. Research Design.....	40
4.3. Techniques for sampling data	41

4.4 Target Population	41
4.5. Construction of Questionnaire	41
Chapter 5	42
5. Information collection.....	43
5.1. SPSS data for hypothesis	45
5.2 Problems	47
5.3. SPSS data for questionnaires	56
Chapter 6	61
6.1. Discussion and Conclusion.....	62
6.2. Future Work.....	65
7. References.....	66
8. Appendix.....	70

LIST OF FIGURES

Figure 1: Structure of the thesis	19
Figure 2: Theoretical model.....	26
Figure 3: Criteria model.....	31
Figure 4: Overview of the Development Process, with Measure.....	34
Figure 5: Percentage of Questionnaire resources.....	45
Figure 6: Percentage of projects	46
Figure 7: Lack of access to end users	46
Figure 8: Change of project scope	47
Figure 9: Project cost and time overruns	48
Figure 10: Ambiguous and unclear requirements.....	48
Figure 11: Irresponsible project manager	49
Figure 12: Customer inability in requirement specification	50
Figure 13: Major parameter in system failure or success	50
Figure 14: Environment effect on staff performance.....	51
Figure 15: Errors and bugs in the developed system	52
Figure 16: Top management support	52
Figure 17: System should meet the client's requirement.....	53
Figure 18: Decision making for project success	54
Figure 19: Requirement engineering practices	54
Figure 20: Big reason in system failure	55
Figure 21: Main Causes of Software failure	60

LIST OF TABLES

Table 1: Likert Scale	41
Table 2: Hypothesis 1	43
Table 3: Hypothesis 2	44
Table 4: Hypothesis 3	44
Table 5: Hypothesis 4	44
Table 6: Hypothesis 5	44
Table 7: Lack of access to end-users	55
Table 8: Change of project scope.....	56
Table 9: Project cost and time overruns.....	56
Table 10: Ambiguous and unclear requirements	56
Table 11: Customer inability in requirement specification.....	57
Table 12: Irresponsible project manager.....	57
Table 13: Major parameter in system failure or success.....	57
Table 14: Environment effect on staff performance	58
Table 15: Errors and bugs in the developed system.....	58
Table 16: Top management support.....	58
Table 17: System should meet the client's requirement	59
Table 18: Decision making for project success.....	59
Table 19: Requirement engineering practices.....	59
Table 20: Big reason in system failure.....	60

Preface

This thesis was prepared as a partial fulfilment of the requirements of acquiring the degree Master of Science in Software Engineering MS (SE), in the School of System and Technology, SST, located at the University of Management and Technology, (UMT).

The thesis consists of six chapters. Chapter 1 explains the introduction of the thesis related to the Critical Analysis of Software Failure Causes from Project Management's Perspective. Other chapters of this thesis will discuss the Structure of the thesis, literature review, methodology of Research, information collection, Discussion and conclusion, References, appendix.

Abstract

With the growth of technology, people and companies are relying on software systems. For that, we need a product/software that is trustworthy, reliable, and economical. It should be maintainable, dependable and reusable. If the software is developed with much accuracy, everything is being done as planned and the software is set to the market then the success rate will be high. But if there is any bug in the software then not only the software will fail but it will also affect the organizations that are responsible for making it. So the failure of software also has a great impact on the organization. In this research, we have presented a detailed and critical analysis of all those reasons which cause the software to fail and the factors that hinder in a project success. We studied the existing software development processes and also analyzed how they can help in reducing these causes.

Chapter 1

Introduction

CHAPTER 1

The software is a set of instructions that provides the desired features, performance and functions. It is a data structure that allows the programs to effectively store, operate information and it is a documentation which describes how to use and operate a program. With the growth of technology more and more people and companies are relying on software systems. So for that, we need a product/software that is trustworthy and reliable economically. Software needs to deliver the required functionality and should be able to perform accurately. It should be maintainable, dependable and reusable.

IEEE defines the idea of failure as "deviation of the delivered service from compliance with the specification". According to this definition, the software will fail which does not provide the exact specification and functionality as required. In the development of a system, if there are **unclear objectives, ambiguous goals, poor time management and resource shortage** than a software system tend to fail. The developed system which is unable to perform correctly and efficiently is useless.