

TABLE OF CONTENTS

ABSTRACT.....	i
VALIDITY SHEETS	ii
STATEMENT OF ORIGINALITY	iii
PREFACE	iv
TABLE OF CONTENTS	vi
LIST OF TABLES	ix
LIST OF FIGURES	xi
LIST OF TERMS.....	xiii
LIST OF APPENDIX	xiv
CHAPTER I INTRODUCTION.....	1
I.1. Background.....	1
I.2. Problem Formulation	9
I.3. Purpose.....	9
I.4. Benefit.....	9
I.5. Limitations and Assumptions.....	10
I.6. Writing Systematics	11
CHAPTER II THEORETICAL BASIS	12
II.1. Literature Review.....	12
II.1.1. Project	12
II.1.2. Project Management	12
II.1.3. Project Performance.....	16
II.1.4. Project Digitalization	18
II.1.5. Project Management Information System (PMIS)	18
II.1.6. Quality Function Deployment (QFD).....	19

II.2.	Method/Framework Selection.....	21
II.3.	Review of Previous Research	23
II.4.	Research Scope and Uniqueness.....	29
CHAPTER III DESIGN METHODOLOGY		31
III.1.	Research Design Systematics	31
III.1.1.	Introduction Phase	33
III.1.2.	Data Collection & Processing Phase.....	34
III.1.3.	Data Validation & Analysis Phase	40
III.1.4.	Closing Phase.....	40
III.2.	Identification of Integrated System.....	41
CHAPTER IV DATA COLLECTION AND PROCESSING		42
IV.1.	Project Profile	42
IV.1.1.	Description.....	42
IV.1.2.	Project Maintenance Process	43
IV.1.3.	Organization Structure	46
IV.2.	Data Collection	48
IV.2.1.	Open-Ended Questionnaires	48
IV.2.2.	Need Statements.....	49
IV.2.3.	Technical Requirements.....	52
IV.3.	Data Processing.....	56
IV.3.1.	Matrix Construction	56
IV.3.2.	House of Quality (HoQ).....	61
IV.3.3.	Low-Fidelity Prototype.....	72
IV.4.	Verification	85
IV.4.1.	PMIS Features Prioritization.....	86
IV.4.2.	Low-fidelity Prototype.....	87
CHAPTER V VALIDATION, ANALYSIS, AND IMPLICATIONS		88
V.1.	Validation	88

V.2. Analysis.....	89
V.2.1. Analysis of Results	89
V.2.2. Analysis of Prototype.....	98
V.3. Implications	104
V.3.1. Theoretical Implications	104
V.3.2. Practical Implications	105
CHAPTER VI CONCLUSION AND SUGGESTIONS.....	107
VI.1. Conclusions.....	107
VI.2. Suggestions	110
BIBLIOGRAPHY	112
APPENDIX.....	115