# DAFTAR ISI

ABSTRAK ..... i
ABSTRACT ..... ii
LEMBAR PENGESAHAN ..... iii
LEMBAR PERNYATAAN ORISINALITAS ..... iv
KATA PENGANTAR ..... v
DAFTAR ISI ..... vii
DAFTAR GAMBAR ..... xi
DAFTAR TABEL ..... xiii
DAFTAR LAMPIRAN ..... xvi
DAFTAR SIMBOL ..... xvii
DAFTAR ISTILAH ..... xviii
BAB I PENDAHULUAN ..... 1
I.1 Latar Belakang ..... 1
I.2 Rumusan Masalah ..... 5
I.3 Tujuan Penelitian ..... 6
I.4 Batasan Penelitian ..... 6
I.5 Manfaat Penelitian ..... 7
BAB II TINJAUAN PUSTAKA ..... 8
II.1 Enterprise Architecture ..... 8
II.1.1 Manfaat Implementasi Enterprise Architecture ..... 10
II.2 Enterprise Architecture Framework ..... 11
II.3 Perbandingan Antar Enterprise Architcture Framework ..... 12
II.4 Alasan Pemilihan Teori, Kerangka Kerja, atau Mekanisme ..... 14
II.4.1 The Open Group Architecture Framework ..... 14

II.4.2 Alat Untuk Pengembangan Enterprise Architecture Framework ... 17
II.5 Penelitian Terdahulu ... 19
BAB III METODOLOGI PENELITIAN ... 25
III.1 Model Konseptual ... 25
III.2 Sistematika Penyelesaian Masalah ... 27
III.3 Pengumpulan Data ... 31
III.4 Pengolahan Data atau Pengembangan Artefak ... 35
III.5 Metode Evaluasi ... 41
BAB IV PERSIAPAN DAN IDENTIFIKASI ... 42
IV.1 Deskripsi Objek Penelitian ... 42
IV.2 Gambaran Perusahaan ... 42
IV.3 Struktur Organisasi ... 43
IV.4 Visi dan Misi Perusahaan ... 45
IV.5 Core Value ... 45
IV.6 Rencana Pengembangan Sistem Informasi ... 46
IV.7 Kondisi Aplikasi Eksisting ... 47
IV.8 Kondisi Permasalahan Eksisting ... 48
BAB V ANALISIS DAN PERANCANGAN ... 52
V.1 Preliminary Phase ... 52
V.1.1 Principle Catalog ... 52
V.2 Architecture Vision ... 54
V.2.1 Stakeholder Map Matrix ... 54
V.2.2 Value Chain Diagram ... 63
V.2.3 Solution Concept Diagram ... 64
V.2.4 Goal Catalog ... 65
V.2.5 Requirement Catalog ... 68

V.3 Business Architecture ..... 69
V.3.1 Goal/Objective/Requirement ..... 69
V.3.2 Business Footprint Diagram ..... 70
V.3.3 Functional Decomposition Diagram ..... 75
V.3.4 Business Service/Functional Catalog ..... 75
V.3.5 Organizational/Actor Catalog ..... 76
V.3.6 Actor/Role Matrix ..... 77
V.3.7 Process Flow Diagram ..... 80
V.3.8 GAP Analysis Business Architecture ..... 108
V.4 Information System Architecture ..... 109
V.4.1 Data Architecture ..... 109
V.4.2 Application Architecture ..... 126
V.5 Technology Architecture ..... 141
V.5.1 Technology Requirement Catalog ..... 142
V.5.2 Technology Standards Catalog ..... 142
V.5.3 Technology Portfolio Catalog ..... 143
V.5.4 Application/Technology Matrix ..... 146
V.5.5 Environment and Locations Diagram ..... 147
V.5.6 GAP Analysis Technology Architecture ..... 148
V.6 Opportunities and Solutions ..... 150
V.6.1 Implementation Factor Assessment and Deduction Matrix ..... 150
V.6.2 Consolidate GAPs, Solutions, and Depedencies Matrix ..... 153
V.6.3 Work Packages Identification Catalog ..... 165
V.6.4 Project Context Diagram ..... 167
V.6.5 Benefit Diagram ..... 167
V.7 Migration Planning ..... 169

V.7.1 Investment Valuation ..... 169
V.7.2 Estimate Value and Risk ..... 178
V.7.3 Business Value Assessment ..... 181
V.7.4 Project Prioritization ..... 182
V.7.5 Architecture Roadmap ..... 184
V.8 Evaluasi ..... 189
BAB VI KESIMPULAN DAN SARAN ..... 194
VI.1 Kesimpulan ..... 194
VI.2 Saran ..... 196
DAFTAR PUSTAKA ..... 197
LAMPIRAN ..... 201