

DAFTAR ISI

ABSTRAK	i
<i>ABSTRACT</i>	iv
LEMBAR PENGESAHAN	vii
LEMBAR PERNYATAAN ORISINALITAS	viii
KATA PENGANTAR	ix
DAFTAR ISI.....	xi
DAFTAR GAMBAR	xv
DAFTAR TABEL.....	xvii
DAFTAR LAMPIRAN.....	xx
DAFTAR ISTILAH	xxi
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	9
II.1 Sistem Pemerintahan Berbasis Elektronik	9
II.2 <i>Enterprise Architecture</i>	11
II.3 <i>Enterprise Architecture Benefits Model (EABM)</i>	12
II.4 <i>Enterprise Architecture Framework</i>	13
II.5 Definisi dan Perbandingan Kerangka Kerja.....	14
II.5.1 The Open Group Architectural Framework (TOGAF)	14
II.5.2 Zachman Enterprise Framework (ZEF)	19
II.5.3 The Federal Enterprise Architecture Framework (FEAF)	20
II.5.4 Perbandingan Kerangka Kerja	21
II.6 Alasan Pemilihan Kerangka Kerja	22
II.7 Penelitian Terdahulu	25
BAB III METODOLOGI PENELITIAN.....	30
III.1 Kerangka Berpikir.....	30
III.2 Sistematisa Penyelesaian Masalah.....	32
III.3 Pengumpulan Data	34

III.4	Pengolahan Data dan Pengembangan Artefak	39
III.5	Metode Evaluasi.....	45
III.6	Rencana Jadwal Kegiatan	46
BAB IV	PERSIAPAN DAN IDENTIFIKASI	47
IV.1	Identifikasi Objek Penelitian.....	47
IV.2	Profil Objek Penelitian.....	47
IV.2.1	Visi dan Misi Organisasi.....	48
IV.2.1.1	Visi	48
IV.2.1.2	Misi	48
IV.2.2	Nilai Organisasi.....	49
IV.2.3	Struktur Organisasi	49
IV.2.4	Rincian Tugas, Fungsi, dan Tata Kerja Organisasi.....	52
IV.2.1	Rencana Strategis	55
IV.2.2	Gambaran Proses Bisnis Eksisting.....	56
IV.2.3	Gambaran Kondisi Aplikasi Eksisting.....	60
IV.2.1	Permasalahan Yang Dihadapi	62
BAB V	ANALISIS DAN PERANCANGAN.....	65
V.1	Fase Awal (<i>Preliminary</i>).....	65
V.1.1	Langkah-Langkah Fase Awal (<i>Preliminary</i>)	65
V.1.2	<i>Principle Catalog</i>	68
V.2	Fase A - Visi Arsitektur (<i>Architecture Vision</i>)	73
V.2.1	<i>Stakeholder Map Matrix</i>	73
V.2.2	<i>Value Chain Diagram</i>	77
V.2.3	<i>Solution Concept Diagram</i>	78
V.2.4	<i>Goal Catalog</i>	80
V.2.5	<i>Requirement Catalog</i>	82
V.3	Fase B - Arsitektur Bisnis (<i>Business Architecture</i>).....	82
V.3.1	<i>Goal/Objective/Requirement</i>	83
V.3.2	<i>Business Footprint Diagram</i>	87
V.3.3	<i>Business Interaction Matrix</i>	88
V.3.4	<i>Functional Decomposition Diagram</i>	93
V.3.5	<i>Business Service/Function Catalog</i>	94
V.3.6	<i>Organization/Actor Catalog</i>	95

V.3.7	<i>Role Catalog</i>	96
V.3.8	<i>Actor/Role Matrix (RACI)</i>	98
V.3.9	<i>Process Flow Diagram</i>	99
V.3.9.1	<i>Process Flow Tim Standardisasi : Akreditasi Laboratorium</i>	100
V.3.9.2	<i>Process Flow Tim Standardisasi : Uji Profisiensi</i>	103
V.3.9.3	<i>Process Flow Tim Standardisasi : Penyedia Bahan Acuan</i> ..	107
V.3.9.4	<i>Process Flow Tim Standardisasi : Pengujian Bahan Teknik</i> ..	109
V.3.9.5	<i>Process Flow Tim Standardisasi : Uji Kalibrasi</i>	113
V.3.9.6	<i>Process Flow Tim Pengujian Barang Teknik</i>	117
V.3.10	<i>GAP Analysis Business Architecture</i>	122
V.4	<i>Fase C - Arsitektur Sistem Informasi (Information System Architecture)</i>	125
V.4.1	<i>Arsitektur Data (Data Architecture)</i>	125
V.4.1.1	<i>Data Architecture Requirement</i>	125
V.4.1.2	<i>Data Entity/Data Component catalog</i>	126
V.4.1.3	<i>Data Entity/Business Function matrix</i>	129
V.4.1.4	<i>Application/Data matrix</i>	131
V.4.1.5	<i>Conceptual Data Diagram/Entity Relationship Diagram (ERD)</i>	133
V.4.1.6	<i>Logical Data Diagram/Class Diagram</i>	135
V.4.1.7	<i>Data Dissemination Diagram</i>	137
V.4.1.8	<i>GAP Analysis Data Architectures</i>	137
V.4.2	<i>Arsitektur Aplikasi (Applications Architecture)</i>	143
V.4.2.1	<i>Application Architecture Requirement</i>	143
V.4.2.2	<i>Application Portfolio Catalog</i>	144
V.4.2.3	<i>Application Interface Catalog</i>	145
V.4.2.4	<i>Application/Organization Matrix</i>	146
V.4.2.5	<i>Application/Function Matrix</i>	148

V.4.2.6	<i>Application/Role Matrix</i>	149
V.4.2.7	<i>Application Interaction Matrix</i>	150
V.4.2.8	<i>Application Communication Diagram</i>	152
V.4.2.9	<i>Application Use Case & Application Usage View Diagram</i>	152
V.4.2.10	<i>GAP Analysis Application Architecture</i>	161
V.5	Fase D - <i>Arsitektur Teknologi (Technology Architecture)</i>	165
V.5.1	<i>Technology Architecture Requirement</i>	165
V.5.2	<i>Technology Standards Catalog</i>	166
V.5.3	<i>Technology Portfolio Catalog</i>	167
V.5.4	<i>Technology/Application Matrix</i>	171
V.5.5	<i>Environments and Locations diagram</i>	172
V.5.6	<i>Platform Decomposition Diagram</i>	174
V.5.7	<i>GAP Analysis Technology Architecture</i>	174
V.6	Fase E - <i>Peluang dan Solusi (Opportunity and Solutions)</i>	179
V.6.1	<i>Implementation Factor Assessment and Deduction Matrix</i>	179
V.6.2	<i>Consolidate Gap, Solution & Dependencies Matrix</i>	181
V.6.3	<i>Work Package Identification Catalog</i>	192
V.6.4	<i>Project Context Diagram</i>	195
V.6.5	<i>Benefit Diagram</i>	196
V.7	Fase F - <i>Perencanaan Migrasi (Migration Planning)</i>	197
V.7.1	<i>Investment Valuation</i>	197
V.7.2	<i>Estimate Value and Risk</i>	202
V.7.3	<i>Business Value and Risk Assesment</i>	204
V.7.4	<i>Project Prioritization</i>	205
V.7.5	<i>Architecture Roadmap</i>	210
V.8	Evaluasi	212
BAB VI	KESIMPULAN DAN SARAN.....	217
VI.1	Kesimpulan	217
VI.2	Saran.....	219
DAFTAR PUSTAKA	221
LAMPIRAN	223