

DAFTAR ISI

LEMBAR PENGESAHAN	i
LEMBAR PERNYATAAN ORISINALITAS	ii
ABSTRAK	iii
ABSTRACT	iv
KATA PENGANTAR	v
DAFTAR ISI.....	vi
DAFTAR GAMBAR DAN ILUSTRASI.....	xiii
DAFTAR TABEL.....	xv
DAFTAR ISTILAH	xviii
DAFTAR SINGKATAN	xix
DAFTAR LAMPIRAN.....	xx
Bab I PENDAHULUAN	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah	4
I.3 Batasan Penelitian	4
I.4 Manfaat Penelitian	4
I.5 Sistematika Penulisan	5
Bab II TINJAUAN PUSTAKA	7
II.1 <i>Enterprise Architecture</i>	7
II.2 <i>The Open Group Architecture Framework (TOGAF)</i>	10
II.3 <i>Architecture Development Method (ADM)</i>	11
Bab III METODOLOGI PENELITIAN.....	17
III.1 Model Konseptual	17
III.2 Sistematika Penelitian	19
III.2.1 Tahap Persiapan	19
III.2.2 Tahap Identifikasi	19
III.2.3 Tahap Analisis dan Perancangan	19
III.2.4 Tahap Pelaporan.....	20
Bab IV TAHAP PERSIAPAN DAN IDENTIFIKASI.....	22
IV.1 Fase Persiapan.....	22
IV.1.1 Persiapan Kebutuhan Data	22

IV.1.2	Metode Pengumpulan Data	24
IV.2	Fase Identifikasi	25
IV.2.1	Deskripsi Objek Penelitian.....	25
IV.2.2	Visi dan Misi.....	26
IV.2.3	Struktur Organisasi	26
IV.2.4	Identifikasi Data Input TOGAF ADM.....	27
IV.2.4.1	Pleminary Phase.....	27
IV.2.4.2	Architecture Vision.....	28
IV.2.4.3	Business Architecture	30
IV.2.4.4	Information System Architecture	33
IV.2.4.5	Technology Architecture	35
IV.2.4.6	Opportunities and Solutions	38
IV.2.4.7	Migration Planning	42
Bab V	ANALISIS DAN PERANCANGAN <i>ENTERPRISE ARCHITECTURE</i>	
	FUNGSI MANAJEMEN TRANSPORTASI DAN PARKIR	47
V.1	<i>Pleminary Phase</i>	47
V.1.1	Scope the Enterprise Organizations Impacted	47
V.1.2	Confirm Governance and Support Frameworks	47
V.1.3	Define and Establish Enterprise Architecture Team and Organization.....	47
V.1.4	Identify and Establish Architecture Principles.....	48
V.1.4.1	Priciple Catalog	48
V.1.5	Tailor TOGAF and, if any, Other Selected Architecture Framework	
	51	
V.1.6	Implement Architecture Tools	51
V.2	<i>Phase A: Architecture Vision</i>	52
V.2.1	Establish the Architecture Project.....	52
V.2.2	Identify Stakeholders, Concerns, and Business Requirements	52
V.2.2.1	Stakeholder Map Matrix	52
V.2.3	Confirm and Elaborate Business Goals, Business Drivers, and Constraints	57
V.2.4	Evaluate Business Capabilities	59
V.2.5	Assess Readiness for Business Transformation.....	59

V.2.6	Define Scope	59
V.2.6.1	Value Chain	59
V.2.7	Confirm and Elaborate Architecture Principles, including Business Principles.....	60
V.2.8	Develop Architecture Vision	60
V.2.8.1	Solution Concept Diagram	61
V.2.9	Define the Target Architecture Value Propositions and KPIs	62
V.2.10	Identify the Business Transformation Risks and Mitigation Activities	62
V.2.11	Develop Statement of Architecture Work; Secure Approval	62
V.3	<i>Phase B: Business Architecture</i>	62
V.3.1	Requirement Management	62
V.3.1.1	Business Scenario Method.....	63
V.3.1.2	Requirement Catalog	68
V.3.2	Select Reference Models, Viewpoint, and Tools.....	69
V.3.3	Develop Baseline Business Architecture Description	69
V.3.3.1	Organization/Actor Catalog.....	70
V.3.3.2	Role Catalog	72
V.3.3.3	Business Service/Function Catalog Existing.....	81
V.3.3.4	Business Interaction Matrix.....	82
V.3.3.5	Actor/Role Matrix.....	85
V.3.3.6	Business Footprint Diagram	87
V.3.3.7	Functional Decomposition Diagram.....	88
V.3.3.8	Process Flow Diagram Baseline	88
V.3.4	Develop Target Business Architecture Description.....	91
V.3.4.1	Business Service/Function Catalog Target.....	92
V.3.4.2	Process Flow Diagram Target	93
V.3.5	Perform GAP Analysis	98
V.3.5.1	GAP Analysis Table Business Architecture	99
V.3.6	Define Candidate Roadmap Components	101
V.3.7	Resolve Impacts Across the Architecture Landscape	101
V.3.8	Conduct Formal Stakeholder Review	102
V.3.9	Finalize the Business Architecture.....	102
V.3.10	Create Architecture Definition Document	102

V.4	<i>Information System Architecture</i>	102
V.4.1	Information System Architecture – Data Architecture	105
V.4.1.1	Select Reference Models, Viewpoints, and Tools	105
V.4.1.2	Develop Baseline Data Architecture Description	105
V.4.1.3	Develop Target Data Architecture Description	106
V.4.1.3.1	Requirement Catalog	106
V.4.1.3.2	Data Entity/ Data Component Catalog	106
V.4.1.3.3	Conceptual Data Diagram	110
V.4.1.3.4	Logical Data Diagram	112
V.4.1.3.5	Data Dissemination Diagram	114
V.4.1.4	Perform GAP Analysis	116
V.4.1.4.1	GAP Analysis Table Data Architecture	116
V.4.1.5	Define Candidate Roadmap Components	118
V.4.1.6	Resolve Impacts Across the Architecture Landscape	118
V.4.1.7	Conduct Formal Stakeholder Review	119
V.4.1.8	Finalize the Data Architecture	119
V.4.1.9	Create Architecture Definition Document	119
V.4.1.9.1	Data Entity/ Business Function Matrix	119
V.4.1.9.2	Application/ Data Matrix	121
V.4.2	Information System Architecture – Application Architecture	122
V.4.2.1	Select Reference Models, Viewpoints, and Tools	123
V.4.2.2	Develop Baseline Application Architecture Description	123
V.4.2.3	Develop Target Application Architecture Description	123
V.4.2.3.1	Requirement Catalog	123
V.4.2.3.2	Application Portofolio Catalog	124
V.4.2.3.3	Interface Catalog	126
V.4.2.3.4	Application Communication Diagram	127
V.4.2.3.5	Application and User Location Diagram	128
V.4.2.3.6	Application Use-Case Diagram	130
V.4.2.4	Perform GAP Analysis	137
V.4.2.4.1	GAP Analysis Table Application Architecture	137
V.4.2.5	Define Candidate Roadmap Components	141
V.4.2.6	Resolve Impacts Across the Architecture Landscape	142
V.4.2.7	Conduct Formal Stakeholder Review	142
V.4.2.8	Finalize the Application Architecture	142

V.4.2.9	Create Architecture Definition Document.....	142
V.4.2.9.1	Application/ Organization Matrix	142
V.4.2.9.2	Role/ Application Matrix	144
V.4.2.9.3	Application Interaction Matrix.....	147
V.4.2.9.4	Application/ Function Matrix.....	148
V.5	<i>Technology Architecture</i>	149
V.5.1	Select Reference, Models, Viewpoints, and Tools	150
V.5.2	Develop Baseline Technology Architecture Description.....	150
V.5.2.1	Environments and Location Diagram Baseline	150
V.5.3	Develop Target Technology Architecture Description	152
V.5.3.1	Requirement Technology Catalog	152
V.5.3.2	Technology Standard Catalog.....	152
V.5.3.3	Technology Portofolio Catalog.....	155
V.5.3.4	Environments and Location Diagram Target	158
V.5.4	Perform GAP Analysis	160
V.5.4.1	GAP Analysis Table Technology Architecture	160
V.5.5	Define Candidate Roadmap Components.....	162
V.5.6	Resolve impacts Across the Architecture Landscape	162
V.5.7	Conduct Formal Stakeholder Review	162
V.5.8	Finalize the Technology Architecture.....	162
V.5.9	Create Architecture Definition Document	162
V.5.9.1	Application/ Technology Matrix	163
V.5.9.2	Platform Decomposition Diagram.....	164
V.6	<i>Opportunities and Solution</i>	165
V.6.1	Determine/ Confirm Key Corporate Change Attributes	165
V.6.1.1	Implementation Factor Assessment & Deduction Matrix	165
V.6.2	Determine Business Constraints for Implementation	169
V.6.3	Review and Consolidate GAP Analysis Results from Phases B to D	
	169	
V.6.3.1	Consolidated GAPs, Solutions, & Dependencies Matrix Berdasarkan Phase B to D.....	170
V.6.3.2	Consolidated GAPs, Solutions, & Dependencies Matrix Berdasarkan Layanan Bisnis.....	180
V.6.3.3	Consolidated GAPs, Solutions, & Dependencies Matrix Berdasarkan Teknologi	183

V.6.4	Review Consolidated Requirements Across Related Business Functions	185
V.6.5	Consolidate and Reconcile Interoperability Requirements.....	185
V.6.5.1	Consolidate & Reconcile Interoperability Requirement Matrix Existing	186
V.6.5.2	Consolidate & Reconcile Interoperability Requirement Matrix Target	193
V.6.5.3	Consolidate & Reconcile Interoperability Requirement Matrix GAPs	201
V.6.5.4	Information System Interoperability Matrix.....	209
V.6.6	Refine and Validate Dependencies	210
V.6.7	Confirm Readiness and Risk for Business Transformation	210
V.6.8	Formulate Implementation and Migration Strategy.....	210
V.6.9	Identify and Group Major Work Packages	210
V.6.10	Identify Transition Architectures	211
V.6.11	Create the Architecture Roadmap & Implementation and Migration Plan	211
V.6.11.1	Project Context Diagram	212
V.6.11.2	Benefit Diagram	217
V.7	<i>Migration Planning</i>	219
V.7.1	Confirm Management Framework Interactions for the Implementation and Migration Plan	219
V.7.2	Assign a Business Value to Each Work Package	220
V.7.2.1	Business Value Assessment.....	222
V.7.3	Estimate Resource Requirement Project Timings, and Availability/ Delivery Vehicle	223
V.7.4	Prioritize the Migration Projects Through the Conduct of a Cost/ Benefit Assessment and Risk Risk Validation.....	223
V.7.5	Confirm Architecture Roadmap and Update Architecture Definition Document	224
V.7.5.1	IT Roadmap Final	224
V.7.6	Generate the Implementation and Migration Plan	228
V.7.7	Complete the Architecture Development Cycle and Document Lessons Learned.....	228

Bab VI	KESIMPULAN DAN SARAN.....	229
VI.1	Kesimpulan	229
VI.2	Saran	229
	DAFTAR PUSTAKA	230
	LAMPIRAN.....	232