

DAFTAR ISI

ABSTRAK	i
<i>ABSTRACT</i>	ii
LEMBAR PENGESAHAN	iii
LEMBAR PERNYATAAN ORISINALITAS	iv
KATA PENGANTAR	v
DAFTAR ISI	vi
DAFTAR GAMBAR	x
DAFTAR TABEL	xii
DAFTAR LAMPIRAN	xv
DAFTAR SIMBOL	xvi
BAB I PENDAHULUAN	1
I.1 Latar Belakang	1
I.2 Rumusan Masalah	6
I.3 Tujuan Tugas Akhir	7
I.4 Manfaat Tugas Akhir	7
I.5 Batasan dan Asumsi Tugas Akhir	7
I.6 Sistematika Laporan	8
BAB II LANDASAN TEORI	9
II.1 Sistem Peringatan Dini	9
II.2 Desa Tangguh Bencana	9
II.3 <i>Sustainable Development Goals</i>	10
II.4 <i>Enterprise Architecture</i>	10
II.5 Kerangka Kerja <i>Enterprise Architecture</i>	11
II.6 <i>The Open Group Architecture Framework (TOGAF)</i>	12

II.7 Penelitian Terdahulu	15
BAB III METODE PENYELESAIAN MASALAH	22
III.1 Kerangka Berpikir.....	22
III.2 Sistematika Penyelesaian Masalah.....	23
III.2.1 Tahapan Inisiasi	23
III.2.2 Tahapan Identifikasi.....	24
III.2.3 Tahapan Analisis dan Perancangan.....	25
III.2.4 Kesimpulan dan Saran.....	32
III.3 Pengumpulan Data	33
III.4 Pengolahan Data.....	37
III.5 Metode Evaluasi.....	40
III.6 Alasan Pemilihan Metode	40
III.7 Rencana Jadwal Kegiatan	40
BAB IV PENYELESAIAN PERMASALAHAN.....	42
IV.1 Deskripsi Objek Penelitian.....	42
IV.1.1 Gambaran Umum Organisasi.....	42
IV.1.2 Visi Desa Umbul Tanjung.....	44
IV.1.3 Misi Desa Umbul Tanjung.....	44
IV.1.4 Struktur Organisasi	44
IV.1.5 Tim Siaga Bencana Desa Umbul Tanjung	45
IV.2 Gambaran Kondisi Aplikasi Eksisting.....	46
IV.3 Gambaran Kondisi Teknologi Eksisting.....	47
IV.4 Permasalahan Desa Umbul Tanjung	48
IV.5 <i>Fase Preliminary</i>	50
IV.5.1 <i>Principles Catalog</i>	51
IV.6 <i>Architecture Vision</i>	53

IV.6.1	<i>Stakeholder Map Matrix</i>	54
IV.6.2	<i>Value Chain Diagram</i>	56
IV.6.3	<i>Solution Concept Diagram</i>	56
IV.7	<i>Business Architecture</i>	59
IV.7.1	<i>Business Architecture Requirement</i>	59
IV.7.2	<i>Goal/Objective/Requirement Catalog</i>	60
IV.7.3	<i>Business Footprint Diagram</i>	62
IV.7.4	<i>Business Interaction Matrix</i>	64
IV.7.5	<i>Functional Decomposition Diagram</i>	69
IV.7.6	<i>Business Service/Function Catalog</i>	69
IV.7.7	<i>Organizational/Actor Catalog</i>	70
IV.7.8	<i>Actor/Role Matrix</i>	70
IV.7.9	<i>Process Flow Diagram</i>	71
IV.7.10	<i>GAP Analysis Business Architecture</i>	84
IV.8	<i>Information System Architecture</i>	90
IV.8.1	<i>Data Architecture</i>	90
IV.8.2	<i>Application Architecture</i>	101
IV.9	<i>Technology Architecture</i>	115
IV.9.1	<i>Technology Architecture Requirement</i>	116
IV.9.2	<i>Technology Standards Catalog</i>	116
IV.9.3	<i>Technology Portfolio Catalog</i>	117
IV.9.4	<i>Application/Technology Matrix</i>	120
IV.9.5	<i>Environment and Location Diagram</i>	121
IV.9.6	<i>Platform Decomposition Diagram</i>	121
IV.9.7	<i>GAP Analysis Technology Architecture</i>	122
IV.10	<i>Opportunities and Solution</i>	127

IV.10.1	<i>Implementation Factor Assessment and Deduction Matrix</i>	127
IV.10.2	<i>Consolidate GAPS, Solution, and Dependencies Matrix: NPF dan RIA</i>	129
IV.10.3	<i>Work Package Identification Catalog</i>	144
IV.10.4	<i>Project Context Diagram</i>	146
IV.10.5	<i>Benefit Diagram</i>	147
IV.11	<i>Migration Planning</i>	148
IV.11.1	<i>Risk Identification</i>	148
IV.11.2	<i>Value Assessment</i>	156
IV.11.3	<i>Business Value Assessment</i>	158
IV.11.4	<i>Project Prioritization</i>	159
IV.11.5	<i>IT Architecture Roadmap</i>	160
BAB V	<i>VALIDASI, ANALISIS HASIL, DAN IMPLIKASI</i>	163
V.1	<i>Blueprint Enterprise Architecture</i>	163
V.2	<i>Pengujian</i>	167
V.3	<i>Evaluasi</i>	169
BAB VI	<i>KESIMPULAN DAN SARAN</i>	171
VI.1	<i>Kesimpulan</i>	171
VI.2	<i>Saran</i>	172
DAFTAR PUSTAKA		173
LAMPIRAN		178