

Daftar Isi

Lembar Pernyataan	ii
LEMBAR PENGESAHAN	iii
Abstrak	iv
Abstract	v
Lembar Persembahan	vi
Kata Pengantar	vii
Daftar Isi	viii
Daftar Gambar	xi
Daftar Tabel	xiii
Daftar Istilah	xv
1. PENDAHULUAN	1
1.1 Latar Belakang Masalah	1
1.2 Rumusan Masalah	2
1.3 Tujuan	2
1.4 Batasan Masalah	3
1.5 Metodologi Penelitian	3
1.6 Sistematika Penulisan Tugas Akhir	4
2. TINJAUAN PUSTAKA	5
2.1 Software Engineering	5
2.1.1 Definisi	5
2.1.2 Software Process Models	5
2.2 Requirements Software	10
2.2.1 Functional Requirements	10
2.2.2 Non-Functional Requirements	10
2.2.3 Inverse Requirements	10
2.3 Requirements Engineering	11
2.3.1 Definisi	11
2.3.2 Requiriemnts Engineering Goals	11
2.3.3 Requirements Engineering Process	11
2.3.4 Requirements Engineering Process Model	15
2.3.5 Requirements Engineering Tools	21
2.4 Knowledge Engineering	22

2.4.1	Definisi.....	22
2.4.2	Jenis dari <i>Knowledge Based System</i>	22
2.4.3	Case-based Reasoning	22
2.4.4	Nearest Neighbour Algorithm (NNA)	23
2.5	Technique Suitability Assesment Matrix (TSAM)	24
2.6	<i>Analytical Hierarchy Process (AHP)</i>	25
2.6.1	Definisi.....	25
2.6.2	Metode	25
2.6.3	Contoh Studi Kasus pada <i>AHP</i> untuk <i>Prioritization</i>	25
2.7	Black Box Testing.....	26
3.	METODOLOGI PENELITIAN DAN PERANCANGAN SISTEM	27
3.1	Identifikasi Masalah	27
3.2	Studi Literatur	28
3.3	Identifikasi Kebutuhan	28
3.3.1	Kebutuhan fungsional TAPFREE.....	29
3.3.2	Kebutuhan Perangkat Lunak TAPFREE	34
3.3.3	Kebutuhan Perangkat Keras TAPFREE	34
3.4	Perancangan dan Desain.....	35
3.4.1	Deskripsi Sistem	35
3.4.2	Arsitektur Sistem	35
3.4.3	Kecocokan RE teknik pada <i>RE Process Model</i>	56
3.5	Implementasi	57
3.6	Pengujian.....	58
3.7	Analisis Hasil	58
4.	IMPLEMENTASI.....	59
4.1	Implementasi <i>User Environment</i>	59
4.2	Implementasi <i>Intelligence Support</i>	61
4.3	Implementasi <i>Requirements Engineering Management Tools</i>	63
4.3.1	Implementasi <i>Requirements Engineering Management Tools</i> sesuai <i>RE Process Model XP</i>	63
4.3.2	Implementasi <i>Requirements Management Tools</i> sesuai <i>RE Process Model Volere</i>	65
4.3.3	Implementasi <i>Requirements Management Tools</i> sesuai <i>RE Process Model RUP</i>	69

4.4	Pengujian Sistem	72
4.4.1	Skenario Pengujian Sistem	72
5.	PENGUJIAN DAN ANALISIS	117
5.1	Pengujian Penelitian	117
5.1.1	Pengujian Kualitatif	117
5.1.2	Pengujian RE Knowledge	119
5.2	Analisis Hasil Pengujian Penelitian	119
5.2.1	Analisis Kualitatif	119
5.2.2	Analisis Hasil Pengujian RE Knowledge	122
5.3	Kesimpulan Pengujian.....	124
6.	KESIMPULAN DAN SARAN.....	125
6.1	Kesimpulan.....	125
6.2	Saran.....	125
	Daftar Pustaka	126
	LAMPIRAN.....	130
	Lampiran 1 Case Repository [9]	130
	Lampiran 2 Technique Suitability Assessment Matrix [9]	140
	Lampiran 2.1 TSAM Elicitation.....	140
	Lampiran 2.2 TSAM Prioritization	141
	Lampiran 2.3 TSAM Validation and Verification	142
	Lampiran 3 Jawaban Kuesioner	143
	Lampiran 3.1 Jawaban Kuesioner Kualitatif.....	143
	Lampiran 3.2 Jawaban Kuesioner RE Knowledge Pretest.....	144
	Lampiran 3.2 Jawaban Kuesioner RE Knowledge Posttest	144