

DAFTAR ISI

LEMBAR PENGESAHAN	i
LEMBAR PERNYATAAN ORISINALITAS	ii
ABSTRAK	iii
<i>ABSTRACT</i>	iv
KATA PENGANTAR	v
DAFTAR ISI.....	vi
DAFTAR GAMBAR	viii
DAFTAR TABEL.....	x
DAFTAR SINGKATAN	xi
Bab I Pendahuluan	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah.....	3
I.3 Tujuan Penelitian.....	3
I.4 Manfaat Penelitian.....	3
I.5 Batasan Penelitian	4
I.6 Sistematika Pelaporan	4
Bab II Kajian Teori.....	6
II.1 Pelatihan	6
II.2 Android.....	7
II.2.1 Arsitektur Android.....	8
II.2.2 Android Lifecycle	9
II.3 API (Application Programming Interface).....	10
II.3.1 Web API	11
II.3.2 Representational State Transfer (REST) API.....	12
II.3.3 JavaScript Object Notation (JSON).....	12
II.4 Framework.....	13
II.5 Spiral	14
II.6 V-Model	14
II.7 RAD (<i>Rapid Application Development</i>).....	15
II.8 Application Testing.....	17
II.8.1 Black Box Testing.....	17
II.8.2 White Box Testing	17
II.9 Alasan Memilih Tipe Application Testing.....	18
II.10 State Of The Art	18
Bab III METODE TUGAS AKHIR.....	22
III.1 Model Konseptual	22
III.2 Sistematika Penelitian	23
III.2.1 Pendahuluan	23
III.2.2 Pengembangan Aplikasi.....	24
III.2.3 Penutup	24
Bab IV ANALISA DAN PERANCANGAN.....	25

IV.1 Analisis	25
IV.2 Analisis GAP	27
IV.3 Proses Bisnis Usulan Utrain	28
IV.4 Analisis Kebutuhan	31
IV.4.1 Aktor.....	31
IV.4.2 Kebutuhan Fungsional Sistem.....	31
IV.5 Perancangan Sistem.....	34
IV.5.1 Use Case Diagram	34
IV.5.2 Activity Diagram	39
IV.5.3 Entity Relationship Diagram.....	46
IV.5.4 Class Diagram	47
IV.5.5 Sequence Diagram	50
IV.5.6 Perancangan User Interface	63
BAB V IMPLEMENTASI DAN TESTING.....	77
V.1 Implementasi	77
V.1.1 Implementasi Aplikasi	77
V.2 Testing	95
V.2.1 BlackBox Testing.....	95
BAB VI KESIMPULAN DAN SARAN	115
VI.1 Kesimpulan.....	115
VI.2 Saran	115
DAFTAR PUSTAKA	116
LAMPIRAN A	119
LAMPIRAN B	134