

## DAFTAR ISI

HALAMAN PERNYATAAN KEASLIAN SKRIPSI .....	ii
HALAMAN PENGESAHAN.....	iii
KATA PENGANTAR .....	iv
HALAMAN PERNYATAAN PERSETUJUAN PUBLIKASI SKRIPSI.....	v
ABSTRAK.....	vi
ABSTRACT.....	vii
DAFTAR ISI.....	viii
DAFTAR TABEL.....	xi
DAFTAR GAMBAR.....	xii
BAB I PENDAHULUAN .....	1
1.1 Latar Belakang .....	1
1.2 Rumusan Masalah.....	4
1.3 Tujuan .....	4
1.4 Manfaat Penelitian .....	4
1.5 Ruang Lingkup.....	4
1.6 Sistematika Penulisan.....	5
BAB II TINJAUAN PUSTAKA.....	7
2.1 <i>State of The Art</i> .....	7
2.2 <i>Quality Control</i> .....	11
2.3 HSE .....	11
2.4 <i>ICONIX Process</i> .....	11
2.5 <i>Domain Model</i> .....	13
2.6 <i>Use Case Diagram</i> .....	14
2.7 <i>Robustness Diagram</i> .....	15
2.8 <i>Sequence Diagram</i> .....	16
2.9 <i>Class Diagram</i> .....	17
2.10 HTML.....	17
2.11 CSS.....	18
2.12 JavaScript.....	18
2.13 PHP .....	18
2.14 <i>Framework Laravel</i> .....	18

2.15 Node.js.....	19
2.16 Basis Data.....	19
2.17 PostgreSQL .....	19
2.18 <i>Blackbox Testing</i> .....	20
BAB III METODOLOGI PENELITIAN.....	21
3.1 Tahap <i>Requirements</i> .....	22
3.2 Tahap <i>Analysis/Preliminary Design</i> .....	22
3.3 Tahap <i>Detailed Design</i> .....	22
3.4 Tahap <i>Implementation</i> .....	23
BAB IV HASIL DAN PEMBAHASAN .....	24
4.1 Tahap <i>Requirements</i> .....	24
4.1.1 Observasi dan Wawancara.....	24
4.1.2 Deskripsi Sistem .....	25
4.1.3 Karakteristik Pengguna.....	26
4.1.4 Kebutuhan Fungsional .....	27
4.1.5 Kebutuhan Non Fungsional .....	29
4.1.6 <i>Domain Modeling</i> .....	29
4.1.7 <i>Behavioral Requirements</i> .....	32
4.1.8 <i>Milestone 1: Requirements Review</i> .....	69
4.2 Tahap <i>Analysis/ Preliminary Design</i> .....	70
4.2.1 <i>Robustness Analysis</i> .....	70
4.2.2 <i>Update The Domain Model</i> .....	88
4.2.3 <i>Milestone 2: Preliminary Design Review</i> .....	90
4.3 <i>Detailed Design</i> .....	91
4.3.1 <i>Sequence Diagram</i> .....	91
4.3.2 <i>Update The Domain Model</i> .....	116
4.3.3 <i>Milestone 3: Critical Design Review</i> .....	118
4.4 Tahap <i>Implementation</i> .....	119
4.4.1 <i>Coding</i> .....	119
4.4.2 <i>Testing</i> .....	126
BAB V KESIMPULAN DAN SARAN.....	127
5.1 Kesimpulan .....	127
5.2 Saran.....	127

DAFTAR PUSTAKA .....	129
LAMPIRAN 1. Surat Izin Penelitian .....	132
LAMPIRAN 2. Wawancara .....	133
LAMPIRAN 3. Dokumentasi Pengujian.....	135
LAMPIRAN 4. ERD.....	136
LAMPIRAN 5. Hasil Implementasi.....	137
LAMPIRAN 6. Tabel Rencana Pengujian .....	162
LAMPIRAN 7. Tabel Hasil Pengujian .....	168