

DAFTAR ISI

HALAMAN PERNYATAAN KEASLIAN SKRIPSI.....	ii
HALAMAN PENGESAHAN	iii
KATA PENGANTAR.....	iv
HALAMAN PERNYATAAN PERSETUJUAN PUBLIKASI SKRIPSI UNTUK KEPENTINGAN AKADEMIS.....	v
ABSTRAK	vi
ABSTRACT	vii
DAFTAR ISI	viii
DAFTAR TABEL	xi
DAFTAR GAMBAR.....	xiv
BAB I PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah.....	2
1.3 Tujuan Penelitian	2
1.4 Manfaat Penelitian	3
1.5 Ruang Lingkup.....	3
1.6 Sistematika Penulisan	4
BAB II TINJAUAN PUSTAKA	5
2.1 Profil Perusahaan	5
2.2 Studi Penelitian Terdahulu.....	6
2.3 Sistem.....	7
2.4 Presensi Pegawai.....	8
2.5 <i>OpenStreetMap</i> API.....	9
2.6 <i>Geolocation</i>	10
2.7 Aplikasi Berbasis Web.....	11
2.8 Rekayasa Perangkat Lunak	12
2.8.1 <i>Agile Software Development</i>	13
2.8.2 <i>Extreme Programming (XP)</i>	14
2.9 <i>User Stories</i> dan <i>Stories Card</i>	17
2.10 <i>Hypertext Preprocessor (PHP)</i>	18
2.11 <i>PhpMyAdmin</i>	19

2.12 <i>Framework</i>	19
2.12.1 <i>Laravel</i>	20
2.12.2 <i>Bootstrap</i>	21
2.13 <i>Database Management System (DBMS)</i>	22
2.13.1 <i>MySQL</i>	23
2.14 <i>Class Responsibility Collaboration (CRC)</i>	24
2.15 <i>Unified Modelling Language (UML)</i>	25
2.15.1 <i>Use Case Diagram</i>	26
2.15.1.1 <i>Use Case Scenario</i>	27
2.15.2 <i>Class Diagram</i>	30
2.15.3 <i>Sequence Diagram</i>	28
2.16 <i>Acceptance Testing</i>	30
2.17 <i>Black Box Testing</i>	32
BAB III <i>METODOLOGI PENELITIAN</i>	34
BAB IV <i>HASIL DAN PEMBAHASAN</i>	38
4.1 <i>Hasil Planning</i>	38
4.1.1 <i>User Stories</i>	38
4.1.1.1 <i>User Role</i>	38
4.1.1.2 <i>Daftar User Stories</i>	39
4.1.1.3 <i>User Stories Details</i>	40
4.1.2 <i>Estimasi Stories dan Release Plan</i>	45
4.1.2.1 <i>Estimasi Stories</i>	45
4.1.2.2 <i>Release Plans</i>	46
4.1.3 <i>Iteration Plan</i>	48
4.2 <i>Hasil Design</i>	49
4.2.1 <i>Perancangan Use Case Diagram</i>	49
4.2.2 <i>Use Case Scenario</i>	50
4.2.2.1 <i>Use Case Scenario Iteration-1</i>	51
4.2.2.2 <i>Use Case Scenario Iteration-2</i>	54
4.2.2 <i>Perancangan Class Responsibility Collaboration (CRC)</i>	57
4.2.2.1 <i>CRC Iteration-1</i>	58
4.2.2.2 <i>CRC Iteration-2</i>	60
4.2.3 <i>Perancangan Class Diagram</i>	63

4.2.3.1 Perancangan <i>Structure Table Database</i>	65
4.2.4 Perancangan <i>Sequence Diagram</i>	68
4.2.4.1 <i>Sequence Diagram Iteration-1</i>	69
4.2.4.2 <i>Sequence Diagram Iteration-2</i>	72
4.2.5 Perancangan <i>Spike Solution Prototype</i>	77
4.2.5.1 <i>Spike Solution Prototype Iteration-1</i>	77
4.2.5.2 <i>Spike Solution Prototype Iteration-2</i>	81
4.3 Hasil <i>Coding</i>	88
4.3.1 Implementasi Program <i>Iteration-1</i>	88
4.3.2 Implementasi Program <i>Iteration-2</i>	96
4.4 Hasil <i>Testing</i>	103
4.4.1 Pengujian <i>Acceptance Testing</i>	103
4.4.1.1 <i>Acceptance Testing Iteration-1</i>	104
4.4.1.2 <i>Acceptance Testing Iteration-2</i>	105
4.4.2 Pengujian <i>Black Box Testing</i>	107
4.4.2.1 <i>Black Box Testing Iteration-1</i>	108
4.4.2.2 <i>Black Box Testing Iteration-2</i>	112
BAB V KESIMPULAN DAN SARAN	119
5.1 Kesimpulan	119
5.2 Saran	119
DAFTAR PUSTAKA.....	120
LAMPIRAN 1. Hasil Wawancara	124
LAMPIRAN 2. <i>Source Code</i>	125
LAMPIRAN 3. Keterangan Selesai Penelitian.....	144