

DAFTAR ISI

ABSTRAK.....	I
<i>ABSTRACT</i>	II
LEMBAR PENGESAHAN	III
LEMBAR PERNYATAAN ORISINALITAS	IV
HALAMAN PERSEMBAHAN	V
KATA PENGANTAR	VI
DAFTAR ISI.....	VII
DAFTAR GAMBAR.....	X
DAFTAR TABEL.....	XIII
DAFTAR LAMPIRAN.....	XV
DAFTAR ISTILAH	XVI
BAB I PENDAHULUAN.....	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah.....	4
I.3 Tujuan Tugas Akhir	4
I.4 Batasan Tugas Akhir	5
I.5 Manfaat Tugas Akhir	5
I.6 Sistematika Penulisan.....	5
BAB II TINJAUAN PUSTAKA	8
II.1 <i>Smart City</i>	8
II.2 <i>Drone Semi-Autonomous</i>	9
II.3 JavaScript	10
II.4 React-Native.....	11
II.5 Laravel.....	12

II.6	<i>Front-end</i>	12
II.7	<i>Back-end</i>	13
II.8	<i>Face Recognition</i>	14
II.9	<i>Entity Relationship Diagram (ERD)</i>	15
II.10	<i>Unified Modelling Language (UML)</i>	16
II.10.1	<i>Use Case</i>	16
II.10.2	<i>Activity Diagram</i>	17
II.10.3	<i>Sequence Diagram</i>	19
II.10.4	<i>Class Diagram</i>	20
II.11	<i>Iterative Incremental</i>	21
II.12	Metode Pengujian.....	23
II.12.1	<i>Usability Testing</i>	23
II.12.2	<i>User Acceptance Testing</i>	24
II.12.3	<i>Black Box Testing</i>	25
II.12.4	<i>Single Ease Question (SEQ)</i>	27
II.12.5	<i>System Usability Scale (SUS)</i>	28
II.12.6	<i>Load Testing</i>	30
II.13	Perbandingan Model	31
II.14	Penelitian Terdahulu	32
BAB III	METODE PENYELESAIAN MASALAH.....	40
III.1	Metode Penelitian.....	40
III.2	Sistematika Penyelesaian Masalah.....	41
BAB IV	PENYELESAIAN PERMASALAHAN	45
IV.1	<i>Initial Planning</i>	45
IV.2	Implementasi <i>Iterative Incremental</i> Iterasi Pertama	48
IV.2.1	<i>Planning</i>	48

IV.2.2	<i>Requirements</i>	49
IV.2.3	<i>Analysis & Design</i>	50
IV.2.4	<i>Implementation</i>	81
IV.2.5	<i>Testing</i>	88
IV.2.6	<i>Evaluation</i>	94
IV.3	Implementasi <i>Iterative Incremental</i> Iterasi Kedua.....	95
IV.3.1	<i>Planning</i>	95
IV.3.2	<i>Requirements</i>	96
IV.3.3	<i>Analysis & Design</i>	97
IV.3.4	<i>Implementation</i>	111
IV.3.5	<i>Testing</i>	120
IV.3.6	<i>Evaluation</i>	125
IV.4	<i>Deployment</i>	126
BAB V	VALIDASI, ANALISIS HASIL, DAN IMPLIKASI.....	128
V.1	Validasi.....	128
V.1.1	Hasil Pengujian Iterasi Pertama.....	128
V.1.2	Hasil Pengujian Iterasi Kedua	138
V.2	Analisis Hasil	146
V.3	Dampak Hasil Tugas Akhir.....	147
BAB VI	KESIMPULAN DAN SARAN	149
VI.1	Kesimpulan.....	149
VI.2	Saran.....	150
DAFTAR PUSTAKA		152
LAMPIRAN		157