

## DAFTAR ISI

LEMBAR PENGESAHAN .....	ii
LEMBAR PERNYATAAN ORISINALITAS .....	iii
ABSTRAK .....	iv
<i>ABSTRACT</i> .....	v
UCAPAN TERIMA KASIH/ KATA PENGANTAR .....	vi
DAFTAR ISI.....	vii
DAFTAR GAMBAR DAN ILUSTRASI.....	xiii
DAFTAR TABEL.....	xix
BAB I PENDAHULUAN.....	22
I.1    Latar Belakang Masalah.....	22
I.2    Rumusan Masalah .....	24
I.3    Tujuan Penelitian .....	24
I.4    Manfaat Penelitian .....	24
I.5    Ruang Lingkup.....	25
BAB II LANDASAN TEORI.....	26
II.1.    Teori Bisnis yang Relevan dengan Judul Penelitian .....	26
II.1.1. <i>Startup</i> .....	26
II.1.2. <i>Supply Chain</i> .....	26
II.1.3. <i>Business model canvas</i> .....	26
II.2.    Teori Rekayasa Perangkat Lunak.....	28
II.4.1. <i>Mobile App</i> .....	28
II.4.2.    Metode <i>Iterative</i> dan <i>Incremental</i> .....	30
II.4.3.    Bahasa Pemodelan .....	31
II.4.4. <i>App Program Interface (API)</i> .....	32
II.3.    Perangkat yang Digunakan .....	33

II.3.1.	<i>React Native Framework</i> .....	33
II.3.2.	<i>Payment Gateway</i> .....	33
II.3.3.	<i>Visual Studio Code</i> .....	33
II.3.4.	<i>Trello Visual Team</i> .....	33
II.3.5.	<i>BitBucket</i> .....	34
II.3.6.	<i>Microsoft Visio</i> .....	34
II.4.	Teknik Pengumpulan Data.....	34
II.4.1.	<i>Interview</i> .....	34
II.4.2.	Kuesioner .....	34
II.5.	Pengujian Perangkat Lunak.....	34
II.5.1.	Pengujian <i>Black box</i> .....	34
II.5.2.	Pengujian <i>ISO 9126</i> .....	35
II.6.	Penelitian Dokumen Terkait .....	36
II.6.1.	Rancang Bangun Aplikasi Pelelangan <i>Online</i> (E-Auction) Berbasis Perangkat Bergerak android.....	37
II.6.2.	Rancang Aplikasi Travel <i>Marketplace</i> Berbasis <i>Mobile</i> Android di Bagian <i>Front-End</i> .....	37
II.6.3.	<i>Integrating EU Market Place with Market Place Platforms using lightweight web-based APIs</i> .....	38
BAB III METODOLOGI PENELITIAN.....		39
III.1.	Konseptual Model.....	39
III.2.	Sistematika Penelitian.....	40
III.2.1.	Tahap Pendahuluan.....	42
III.2.2.	Tahap Pengembangan Sistem .....	42
III.2.2.1.	<i>Fase Inception</i> .....	42
III.2.2.2.	<i>Fase Elaboration</i> .....	42
III.2.2.3.	<i>Fase Contruction</i> .....	42

III.2.2.4. <i>Fase Transition</i> .....	43
III.2.3. Tahap Penutup .....	43
BAB IV ANALISIS DAN PERANCANGAN .....	44
IV.1. Analisis .....	44
IV.1.1. Analisis Proses Bisnis .....	44
IV.1.2. Analisis Bisnis Model .....	53
IV.1.2.1. <i>Customer segments</i> .....	53
IV.1.2.2. <i>Value proposition</i> .....	53
IV.1.2.3. <i>Customer relationship</i> .....	54
IV.1.2.4. <i>Channels</i> .....	54
IV.1.2.5. <i>Key activities</i> .....	55
IV.1.2.6. <i>Key resource</i> .....	55
IV.1.2.7. <i>Key partners</i> .....	55
IV.1.2.8. <i>Cost structures</i> .....	56
IV.1.2.9. <i>Revenue streams</i> .....	56
IV.1.3. Analisis Kompetitor .....	56
IV.1.4. <i>Business Rules</i> .....	58
IV.1.5. Analisis Peluang Pasar .....	59
IV.1.5.1. Ruang Lingkup .....	59
IV.1.5.2. Segmentasi .....	60
IV.1.5.3. Analisis Responden Pasar .....	61
IV.1.6. Analisis Kelayakan Bisnis .....	66
IV.1.7. Analisis Rencana Bisnis .....	73
IV.1.8. Analisis Rencana Teknik .....	75
IV.1.8.1. Analisis Kebutuhan Fungsionalitas Sistem .....	76
IV.1.8.2. Aktor .....	80

IV.1.8.3. <i>Rules</i> .....	81
IV.2. Perancangan.....	83
IV.2.1. Perancangan Proses Bisnis .....	84
IV.2.1.1. <i>Use case diagram</i> .....	84
IV.2.1.1.1. <i>Authentication</i> .....	85
IV.2.1.1.2. Kelola Profil.....	89
IV.2.1.1.3. Kelola Toko .....	93
IV.2.1.1.4. Kelola Barang .....	96
IV.2.1.1.5. Kelola Transaksi Toko.....	98
IV.2.1.1.6. Kelola Pengajuan Dana Toko .....	100
IV.2.1.1.7. Pembelian.....	102
IV.2.1.2. <i>Activity Diagram</i> .....	107
IV.2.1.2.1. <i>Authentication</i> .....	107
IV.2.1.2.2. Kelola Akun .....	109
IV.2.1.2.3. Pembelian .....	111
IV.2.1.2.4. Kelola Transaksi Penjual .....	112
IV.2.1.2.5. Kelola Keranjang .....	113
IV.2.1.2.6. Kelola Pengajuan Dana Pembeli.....	114
IV.2.1.2.7. Kelola Toko .....	115
IV.2.1.2.8. Kelola Barang .....	116
IV.2.1.2.9. Kelola Transaksi Toko .....	120
IV.2.1.2.10. Kelola Pengajuan Dana Toko .....	121
IV.2.1.3. <i>Sequence Diagram</i> .....	122
IV.2.1.3.1. <i>Authentication</i> .....	122
IV.2.1.3.2. Kelola Akun .....	124
IV.2.1.3.3. Pembelian .....	126

IV.2.1.3.4.	Kelola Transaksi Pembeli.....	127
IV.2.1.3.5.	Kelola Keranjang.....	128
IV.2.1.3.6.	Kelola Pengajuan Dana Pembeli.....	129
IV.2.1.3.7.	Kelola Toko.....	130
IV.2.1.3.8.	Kelola Barang.....	132
IV.2.1.3.9.	Kelola Transaksi Toko .....	136
IV.2.1.3.10.	Kelola Pengajuan Dana Toko.....	137
IV.2.2.	Perancangan Data .....	138
IV.2.2.1.	<i>Class diagram</i> .....	138
IV.2.2.2.	<i>Conceptual data Model</i> .....	140
IV.2.3.	Perancangan <i>Interface</i> .....	141
IV.2.4.	Perancangan Infrastruktur .....	164
BAB V	IMPLEMENTASI DAN PENGUJIAN .....	165
V.1.	Implementasi .....	165
V.1.1.	Implementasi Bisnis .....	165
V.1.2.	Implementasi Aplikasi .....	168
V.1.3.	Implementasi Data .....	169
V.2.	Pengujian.....	170
V.2.1.	<i>Unit testing</i> .....	170
V.2.2.	<i>Integration Testing</i> .....	188
V.2.3.	<i>Environment Testing</i> .....	189
V.2.4.	<i>Stress Testing</i> .....	191
V.2.5.	<i>User Acceptance Testing</i> .....	195
V.2.3.1.	Pengumpulan Data.....	195
V.2.3.2.	Analisis Hasil Penelitian.....	195
BAB VI	KESIMPULAN DAN SARAN .....	201

VI.1.	Kesimpulan .....	201
VI.2.	Saran .....	201
	DAFTAR PUSTAKA .....	202
	LAMPIRAN A .....	204
A.1.	Iterasi.....	207
A.1.1.	<i>Fase Inception</i> .....	207
A.1.2.	<i>Fase Elaboration</i> .....	208
A.1.3.	<i>Fase Construction</i> .....	209
A.1.3.1.	Tampilan Aplikasi.....	209
A.1.4.	<i>Fase Transition</i> .....	210
A.1.4.1.	Uji Fungsionalitas Sistem .....	210
	LAMPIRAN B .....	211
B.1.	<i>Use case Diagram</i> .....	212
B.2.	Konseptual Data Model.....	213
	LAMPIRAN C .....	214
C.1.	Tampilan Aplikasi.....	215
	LAMPIRAN D .....	221
D.1.	Hasil Pengujian <i>Unit testing</i> .....	222
D.2.	Hasil Pengujian <i>Integration</i> .....	228
D.3.	Hasil Pengujian <i>Environment</i> .....	230