

DAFTAR ISI

LEMBAR PENGESAHAN	ii
LEMBAR PERNYATAAN ORISINALITAS	iii
ABSTRAK	iv
<i>ABSTRACT</i>	v
Kata pengantar	vi
Daftar Isi.....	viii
Daftar Gambar.....	xx
Daftar Tabel	xxv
Daftar Istilah.....	xxviii
Daftar Lampiran	xxix
Bab I Pendahuluan	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah.....	5
I.3 Tujuan Penelitian.....	5
I.4 Batasan Penelitian	6
I.5 Manfaat Penelitian.....	6
Bab II Tinjauan Pustaka	8
II.1 Penelitian Terdahulu.....	8
II.2 Dasar Teori	12
II.2.1 Perusahaan Adam Djaya Teknik.....	12
II.2.2 Sistem Informasi	14
II.2.3 Sistem Informasi Keuangan	14
II.2.4 Laporan Keuangan	14
II.2.5 Pajak.....	15

II.2.6	Pajak Pertambahan Nilai (PPN)	17
II.2.7	Pajak Penghasilan (PPh) Pasal 23 dan Pasal 21	17
II.2.8	<i>JavaScript</i>	18
II.2.9	PHP	18
II.2.10	Laravel	19
II.2.11	Vue Js	20
II.2.12	Laragon	21
II.2.13	MySQL	21
II.2.14	<i>Application Programming Interface (API)</i>	21
II.2.15	UML	22
II.2.15.1	<i>Use Case Diagram</i>	22
II.2.15.2	<i>Activity Diagram</i>	24
II.2.15.3	<i>Sequence diagram</i>	26
II.2.15.4	<i>Class Diagram</i>	27
II.2.16	<i>Metode Extreme Programming</i>	28
II.2.17	<i>Whitebox Testing</i>	29
II.2.18	<i>Blackbox Testing</i>	29
II.2.19	<i>Usability Testing</i>	31
II.2.20	<i>User Acceptance Testing (UAT)</i>	32
II.3	Alasan Pemilihan Teori, Kerangka Kerja, atau Mekanisme	33
Bab III	Metodologi Penelitian	35
III.1	Tempat Penelitian	35
III.2	Sistematika Penyelesaian Masalah	35
III.2.1	Tahapan Identifikasi	36
III.2.2	Analisa Kebutuhan Sistem	37
III.2.3	Metodelogi	40

III.2.3.1	<i>Planning</i>	40
III.2.3.2	<i>Design</i>	40
III.2.3.3	<i>Coding</i>	41
III.2.3.4	<i>Testing</i>	42
III.2.3.5	<i>Blackbox Testing</i>	42
III.2.3.6	<i>Whitebox Testing</i>	43
III.2.3.7	<i>Usability Testing</i>	43
III.2.3.8	<i>Release</i>	43
III.2.4	Tahapan Penutupan	44
III.3	Alat Dan Bahan.....	45
III.4	Pengumpulan Data	45
III.4.1.1	Wawancara.....	45
III.4.1.2	Observasi	46
III.5	Rencana Jadwal Kegiatan	46
Bab IV	PENGUMPULAN DAN PENGOLAHAN DATA	47
IV.1	Analisis Proses Bisnis.....	47
IV.1.1	Analisis Proses Bisnis <i>As-Is</i>	47
IV.1.1.1	Proses Bisnis	47
IV.1.1.2	Proses Bisnis <i>As-Is</i>	48
IV.1.1.3	Proses Bisnis <i>To-Be</i>	50
IV.2	Pengumpulan Data	52
IV.3	Pengolah Data	53
IV.3.1	Kebutuhan Pengguna	53
IV.3.2	Kebutuhan Sistem	55
IV.4	<i>User Story</i>	58
IV.5	Iterasi Pengembangan <i>Website</i>	68

Bab V	Analisis dan pembahasan	71
V.1	Perancangan Sistem.....	71
V.1.1	<i>Usecase Diagram</i>	71
V.1.2	<i>Entity Relationship Diagram</i>	73
V.1.3	<i>Class Diagram</i>	74
V.2	Pengembangan Iterasi Pertama	75
V.2.1	<i>Design and Development</i>	75
V.2.1.1	<i>Use Case Scenario</i>	76
V.2.1.2	<i>Use Case Scenario Login</i>	76
V.2.1.3	<i>Use Case Scenario Dashboard</i>	78
V.2.1.4	<i>Use Case Scenario Aktivitas Log</i>	79
V.2.1.5	<i>Use Case Scenario Tambah Data User</i>	81
V.2.1.6	<i>Use Case Scenario Edit Data User</i>	82
V.2.1.7	<i>Use Case Scenario Hapus Data User</i>	83
V.2.1.8	<i>Use Case Scenario Tambah Data Kategori</i>	84
V.2.1.9	<i>Use Case Scenario Edit Data Kategori</i>	86
V.2.1.10	<i>Use Case Scenario Hapus Data Kategori</i>	87
V.2.1.11	<i>Use Case Scenario Tambah Data Kategori Jasa</i>	88
V.2.1.12	<i>Use Case Scenario Edit Data Kategori Jasa</i>	90
V.2.1.13	<i>Use Case Scenario Hapus Data Kategori Jasa</i>	91
V.2.1.14	<i>Use Case Scenario Tambah Data Merek</i>	92
V.2.1.15	<i>Use Case Scenario Edit Data Merek</i>	94
V.2.1.16	<i>Use Case Scenario Hapus Data Merek</i>	95
V.2.1.17	<i>Use Case Scenario Tambah Data Unit</i>	96
V.2.1.18	<i>Use Case Scenario Edit Data Unit</i>	98
V.2.1.19	<i>Use Case Scenario Hapus Data Unit</i>	99

V.2.2	<i>Activity Diagram</i>	101
V.2.2.1	<i>Activity Diagram Login</i>	101
V.2.2.2	<i>Activity Diagram Dashboard</i>	102
V.2.2.3	<i>Activity Diagram Activity Log</i>	103
V.2.2.4	<i>Activity Diagram Menambah Data User</i>	104
V.2.2.5	<i>Activity Diagram Edit Data User</i>	106
V.2.2.6	<i>Activity Diagram Menghapus Data User</i>	107
V.2.2.7	<i>Activity Diagram Menambah Data Kategori</i>	108
V.2.2.8	<i>Activity Diagram Edit Data Kategori</i>	109
V.2.2.9	<i>Activity Diagram Menghapus Data Kategori</i>	110
V.2.2.10	<i>Activity Diagram Menambah Data Kategori Jasa</i>	111
V.2.2.11	<i>Activity Diagram Edit Data Kategori Jasa</i>	112
V.2.2.12	<i>Activity Diagram Menghapus Data Kategori Jasa</i>	113
V.2.2.13	<i>Activity Diagram Menambahkan Data Merek</i>	114
V.2.2.14	<i>Activity Diagram Edit Data Merek</i>	115
V.2.2.15	<i>Activity Diagram Menghapus Data Merek</i>	116
V.2.2.16	<i>Activity Diagram Menambahkan Data Unit</i>	117
V.2.2.17	<i>Activity Diagram Edit Data Unit</i>	118
V.2.2.18	<i>Activity Diagram Menghapus Data Unit</i>	119
V.2.3	<i>Sequence Diagram</i>	120
V.2.3.1	<i>Sequence Diagram Login</i>	120
V.2.3.2	<i>Sequence Diagram Dashboard</i>	121
V.2.3.3	<i>Sequence Diagram Activity Log</i>	122
V.2.3.4	<i>Sequence Diagram Menambah Data User</i>	123
V.2.3.5	<i>Sequence Diagram Edit Data User</i>	124
V.2.3.6	<i>Sequence Diagram Menghapus Data User</i>	125

V.2.3.7	<i>Sequence Diagram</i> Menambah Data Kategori	126
V.2.3.8	<i>Sequence Diagram</i> Edit Data Kategori.....	127
V.2.3.9	<i>Sequence Diagram</i> Menghapus Data Kategori.....	128
V.2.3.10	<i>Sequence Diagram</i> Menambah Data Kategori Jasa.....	129
V.2.3.11	<i>Sequence Diagram</i> Edit Data Kategori Jasa	130
V.2.3.12	<i>Sequence Diagram</i> Menghapus Data Kategori Jasa	131
V.2.3.13	<i>Sequence Diagram</i> Menambah Data Merek	132
V.2.3.14	<i>Sequence Diagram</i> Edit Data Merek	133
V.2.3.15	<i>Sequence Diagram</i> Menghapus Data Merek	134
V.2.3.16	<i>Sequence Diagram</i> Menambah Data Unit	135
V.2.3.17	<i>Sequence Diagram</i> Edit Data Unit.....	136
V.2.3.18	<i>Sequence Diagram</i> Menghapus Data Unit.....	137
V.2.4	<i>Coding</i>	137
V.2.4.1	<i>Website</i> Halaman Login	138
V.2.4.2	<i>Website</i> Halaman Dashboard	138
V.2.4.3	<i>Website</i> Halaman Activity Log.....	138
V.2.4.4	<i>Website</i> Halaman Menambah Data User	139
V.2.4.5	<i>Website</i> Halaman Edit Data User	139
V.2.4.6	<i>Website</i> Halaman Menghapus Data User	139
V.2.4.7	<i>Website</i> Halaman Menambah Data Kategori.....	140
V.2.4.8	<i>Website</i> Halaman Edit Data Kategori	140
V.2.4.9	<i>Website</i> Halaman Menghapus Data Kategori	140
V.2.4.10	<i>Website</i> Halaman Menambah Data Kategori Jasa	141
V.2.4.11	<i>Website</i> Halaman Edit Data Kategori Jasa	141
V.2.4.12	<i>Website</i> Halaman Menghapus Data Kategori Jasa	141
V.2.4.13	<i>Website</i> Halaman Menambah Data Merek	142

V.2.4.14	<i>Website Halaman Edit Data Merek.....</i>	142
V.2.4.15	<i>Website Halaman Menghapus Data Merek.....</i>	142
V.2.4.16	<i>Website Halaman Menambah Data Unit.....</i>	143
V.2.4.17	<i>Website Halaman Edit Data Unit</i>	143
V.2.4.18	<i>Website Halaman Menghapus Data Unit</i>	143
V.2.5	<i>Testing</i>	144
V.3	<i>Pengembangan Iterasi Kedua</i>	147
V.3.1	<i>Design and Development</i>	148
V.3.1.1	<i>Use Case Scenario</i>	148
V.3.1.2	<i>Use Case Scenario Tambah Data Proyek</i>	149
V.3.1.3	<i>Use Case Scenario Edit Data Proyek</i>	150
V.3.1.4	<i>Use Case Scenario Hapus Data Proyek.....</i>	151
V.3.1.5	<i>Use Case Scenario Tambah Data Invoice.....</i>	152
V.3.1.6	<i>Use Case Scenario Melihat Data Invoice</i>	153
V.3.1.7	<i>Use Case Scenario Mencetak Data Invoice</i>	154
V.3.1.8	<i>Use Case Scenario Edit Data Invoice</i>	155
V.3.1.9	<i>Use Case Scenario Hapus Data Invoice</i>	156
V.3.1.10	<i>Use Case Scenario Tambah Data Pembelian Material.....</i>	157
V.3.1.11	<i>Use Case Scenario Edit Data Pembelian material.....</i>	159
V.3.1.12	<i>Use Case Scenario Hapus Data Pembelian Material.....</i>	160
V.3.1.13	<i>Use Case Scenario Tambah Data Metode Pembayaran</i>	161
V.3.1.14	<i>Use Case Scenario Edit Data Metode Pembayaran.....</i>	162
V.3.1.15	<i>Use Case Scenario Hapus Data Metode Pembayaran</i>	164
V.3.2	<i>Activity Diagram</i>	165
V.3.2.1	<i>Activity Diagram Tambah Data Proyek.....</i>	165
V.3.2.2	<i>Activity Diagram Edit Data Proyek</i>	166

V.3.2.3	<i>Activity Diagram</i> Hapus Data Proyek.....	167
V.3.2.4	<i>Activity Diagram</i> Tambah Data Invoice	168
V.3.2.5	<i>Activity Diagram</i> Melihat Data Invoice	169
V.3.2.6	<i>Activity Diagram</i> Mencetak Data Invoice.....	170
V.3.2.7	<i>Activity Diagram</i> Edit Data Invoice.....	171
V.3.2.8	<i>Activity Diagram</i> Hapus Data Invoice	172
V.3.2.9	<i>Activity Diagram</i> Tambah Data Pembelian Material.....	173
V.3.2.10	<i>Activity Diagram</i> Edit Data Pembelian Material	174
V.3.2.11	<i>Activity Diagram</i> Hapus Data Pembelian Material.....	175
V.3.2.12	<i>Activity Diagram</i> Tambah Data Metode Pembayaran	176
V.3.2.13	<i>Activity Diagram</i> Edit Data Metode Pembayaran.....	177
V.3.2.14	<i>Activity Diagram</i> Hapus Data Metode Pembayaran	178
V.3.3	<i>Sequence Diagram</i>	179
V.3.3.1	<i>Sequence Diagram</i> Tambah Data Proyek.....	179
V.3.3.2	<i>Sequence Diagram</i> Edit Data Proyek	180
V.3.3.3	<i>Sequence Diagram</i> Hapus Data Proyek.....	181
V.3.3.4	<i>Sequence Diagram</i> Tambah Data Invoice	182
V.3.3.5	<i>Sequence Diagram</i> Melihat Data Invoice	183
V.3.3.6	<i>Sequence Diagram</i> Mencetak Data Invoice.....	184
V.3.3.7	<i>Sequence Diagram</i> Edit Data Invoice	185
V.3.3.8	<i>Sequence Diagram</i> Hapus Data Invoice	186
V.3.3.9	<i>Sequence Diagram</i> Tambah Data Pembelian Material.....	187
V.3.3.10	<i>Sequence Diagram</i> Edit Data Pembelian Material	188
V.3.3.11	<i>Sequence Diagram</i> Hapus Data Pembelian Material.....	189
V.3.3.12	<i>Sequence Diagram</i> Tambah Data Metode Pembayaran	190
V.3.3.13	<i>Sequence Diagram</i> Edit Data Metode Pembayaran.....	191

V.3.3.14	<i>Sequence Diagram</i> Hapus Data Metode Pembayaran	192
V.3.4	<i>Coding</i>	192
V.3.4.1	<i>Website</i> Halaman Tambah Proyek	193
V.3.4.2	<i>Website</i> Halaman <i>Edit</i> Proyek	193
V.3.4.3	<i>Website</i> Halaman Hapus Proyek	193
V.3.4.4	<i>Website</i> Halaman Tambah <i>Invoice</i>	194
V.3.4.5	<i>Website</i> Halaman Melihat <i>Invoice</i>	194
V.3.4.6	<i>Website</i> Halaman Mencetak <i>Invoice</i>	194
V.3.4.7	<i>Website</i> Halaman <i>Edit Invoice</i>	195
V.3.4.8	<i>Website</i> Halaman Hapus <i>Invoice</i>	195
V.3.4.9	<i>Website</i> Halaman Tambah Pembelian Material	195
V.3.4.10	<i>Website</i> Halaman <i>Edit</i> Pembelian Material	196
V.3.4.11	<i>Website</i> Halaman Hapus Pembelian Material	196
V.3.4.12	<i>Website</i> Halaman Tambah Metode Pembayaran	196
V.3.4.13	<i>Website</i> Halaman <i>Edit</i> Metode Pembayaran	197
V.3.4.14	<i>Website</i> Halaman Hapus Metode Pembayaran	197
V.3.5	<i>Testing</i>	197
V.4	Pengembangan Iterasi Ketiga	201
V.4.1	<i>Design and Development</i>	201
V.4.1.1	<i>Use Case Scenario</i>	201
V.4.1.2	<i>Use Case Scenario</i> Tambah Data Termin	202
V.4.1.3	<i>Use Case Scenario</i> Melihat Data Termin	203
V.4.1.4	<i>Use Case Scenario</i> Mencetak Data Termin	204
V.4.1.5	<i>Use Case Scenario Edit</i> Data Termin	205
V.4.1.6	<i>Use Case Scenario</i> Hapus Data Termin	207
V.4.1.7	<i>Use Case Scenario</i> Tambah Data Pengeluaran	208

V.4.1.8	<i>Use Case Scenario Edit Data Pengeluaran</i>	209
V.4.1.9	<i>Use Case Scenario Hapus Data Pengeluaran</i>	210
V.4.1.10	<i>Use Case Scenario Tambah Data Pemasukan</i>	211
V.4.1.11	<i>Use Case Scenario Edit Data Pemasukan</i>	212
V.4.1.12	<i>Use Case Scenario Hapus Data Pemasukan</i>	214
V.4.1.13	<i>Use Case Scenario Laporan Laba rugi</i>	215
V.4.2	<i>Activity Diagram</i>	216
V.4.2.1	<i>Activity Diagram Tambah Data Termin</i>	216
V.4.2.2	<i>Activity Diagram Melihat Data Termin</i>	217
V.4.2.3	<i>Activity Diagram Mencetak Data Termin</i>	218
V.4.2.4	<i>Activity Diagram Edit Data Termin</i>	219
V.4.2.5	<i>Activity Diagram Hapus Data Termin</i>	220
V.4.2.6	<i>Activity Diagram Tambah Data Pengeluaran</i>	221
V.4.2.7	<i>Activity Diagram Edit Data Pengeluaran</i>	223
V.4.2.8	<i>Activity Diagram Hapus Data Pengeluaran</i>	224
V.4.2.9	<i>Activity Diagram Tambah Data Pemasukan</i>	225
V.4.2.10	<i>Activity Diagram Edit Data Pemasukan</i>	226
V.4.2.11	<i>Activity Diagram Hapus Data Pemasukan</i>	227
V.4.2.12	<i>Activity Diagram Laporan Laba Rugi</i>	228
V.4.3	<i>Sequence Diagram</i>	229
V.4.3.1	<i>Sequence Diagram Tambah Termin</i>	229
V.4.3.2	<i>Sequence Diagram Melihat Termin</i>	230
V.4.3.3	<i>Sequence Diagram Mencetak Termin</i>	231
V.4.3.4	<i>Sequence Diagram Edit Termin</i>	232
V.4.3.5	<i>Sequence Diagram Hapus Termin</i>	233
V.4.3.6	<i>Sequence Diagram Tambah Pengeluaran</i>	234

V.4.3.7	<i>Sequence Diagram Edit Pengeluaran</i>	235
V.4.3.8	<i>Sequence Diagram Hapus Pengeluaran</i>	236
V.4.3.9	<i>Sequence Diagram Tambah Pemasukan</i>	237
V.4.3.10	<i>Sequence Diagram Edit Pemasukan</i>	238
V.4.3.11	<i>Sequence Diagram Hapus Pemasukan</i>	239
V.4.3.12	<i>Sequence Diagram Laba Rugi</i>	240
V.4.4	<i>Coding</i>	241
V.4.4.1	<i>Website Halaman Tambah Termin</i>	241
V.4.4.2	<i>Website Halaman Melihat Termin</i>	241
V.4.4.3	<i>Website Halaman Mencetak Termin</i>	241
V.4.4.4	<i>Website Halaman Edit Termin</i>	242
V.4.4.5	<i>Website Halaman Hapus Termin</i>	242
V.4.4.6	<i>Website Halaman Tambah Pengeluaran</i>	242
V.4.4.7	<i>Website Halaman Edit Pengeluaran</i>	243
V.4.4.8	<i>Website Halaman Hapus Pengeluaran</i>	243
V.4.4.9	<i>Website Halaman Tambah Pemasukan</i>	244
V.4.4.10	<i>Website Halaman Edit Pemasukan</i>	244
V.4.4.11	<i>Website Halaman Hapus Pemasukan</i>	245
V.4.4.12	<i>Website Halaman Laba Rugi</i>	245
V.4.5	<i>Testing</i>	245
V.5	<i>Pengujian Usability Testing</i>	250
V.5.1	<i>Partisipan dan Peran</i>	251
V.5.2	<i>Hasil Pengujian Usability</i>	251
V.5.3	<i>Pengujian User Acceptance Testing (UAT)</i>	253
V.5.3.1	<i>Role Super Admin</i>	256
V.5.3.2	<i>Role Admin</i>	259

Bab VI	KESIMPULAN DAN SARAN	262
VI.1	Kesimpulan	262
VI.2	Saran	262
Daftar Pustaka		263
Lampiran		268