

ABSTRAK

Zaman yang semakin maju membuat kegiatan manusia dapat lebih terorganisir oleh adanya teknologi tersebut. Oleh karena itu PT. X melakukan suatu terobosan dalam mengelola pengeluaran biaya yang telah dianggarkan yaitu dengan menggunakan Website intern, yang bertujuan untuk memudahkan cabang, divisi atau kios dalam melakukan permintaan biaya. Sebelum adanya sistem ini, penganggaran dan pengajuan masih menggunakan jasa pengiriman surat dan pendataan biayanya masih manual. Pembuatan Website intern ini mencakup pembuatan rencana budget, pengajuan NPB sudah Anggar, Pengajuan NPB belum Anggar, melihat status approval NPB yang telah diajukan terlebih dahulu. Aplikasi ini bertujuan untuk memudahkan mengajukan NPB dan meminimalkan resiko kehilangan data yang dapat terjadi apabila masih menggunakan jasa pengiriman surat. Melalui laporan Kerja Praktek ini, Penulis akan menjelaskan tentang cara Pembuatan sistem untuk menangani penganggaran, pengajuan dan pendataan biaya sampai pada proses approval.

Kata Kunci : Rencana Budget, NPB, Request Approval, Web Internal

ABSTRACT

The developing era of technology, makes daily routines becoming more organized. With that said, PT. X implemented a breakthrough in managing budgeted cost, by using internal website that is designed for streamlining the expense request process from subsidiaries, divisions or kiosk of the company. Before this system is available, budgeting and request uses mail delivery and manual data processing methods. Through this internal website, such process is available: the creation of budget plan, approved NPB, unapproved NPB, and approval status report for submitted NPB. This program is intended to speed up the process, and to minimize data loss risks that might happen if using mail delivery method. Through this field work report, the system development steps (to handle budgeting, proposal, expense data store) will be explained thoroughly.

Keywords : Budgeting, NPB, Expense Request Approval, Internal Web

DAFTAR ISI

LEMBAR PENGESAHAN	ii
PERNYATAAN ORISINALITAS LAPORAN PENELITIAN	iii
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN	iv
PRAKATA	v
ABSTRAK	vii
ABSTRACT	viii
DAFTAR ISI	ix
DAFTAR GAMBAR	xvi
DAFTAR TABEL	xxi
DAFTAR ISTILAH	xxiv
BAB I PENDAHULUAN	1
I.1 Latar Belakang Masalah	1
I.2 Rumusan Masalah	2
I.3 Tujuan Pembahasan	2
I.4 Ruang Lingkup Kajian	2
I.4.1 Batasan Software	3
I.4.2 Batasan Aplikasi	3
I.5 Sistematika Penulisan	4
BAB II KAJIAN TEORI	5
II.1 Konsep Dasar Sistem	5
II.2 Konsep Dasar Sistem Informasi	5
II.3 Pengembangan Sistem	7
II.4 Sistem Informasi Pendukung Keputusan (<i>Decision Support System</i>)	8
II.4.1 Definisi Keputusan:	8
II.4.2 Tiga kata kunci dalam proses pengambilan keputusan: ..	9
II.4.3 Teknik dalam melakukan pengambilan keputusan	9
II.4.4 Klasifikasi DSS	9
II.4.5 Tiga Tipologi Keputusan	10
II.4.6 Proses pengambilan keputusan	11
II.4.7 Inti pengambilan keputusan	11
II.4.8 Karakteristik DSS	13
II.4.9 Manfaat DSS	13
II.4.10 Keterbatasan DSS	13
II.4.11 Konfigurasi DSS	14
II.4.12 Aliran kerja DSS	15
II.5 Siklus Hidup Pengembangan Sistem	15
II.5.1 Perencanaan Sistem	16
II.5.2 Analisis Sistem	18
II.5.3 Perancangan Sistem	19
II.6 Konsep Dasar DFD (<i>Data Flow Diagram</i>)	19
II.6.1 Terminator atau External <i>Entity</i> atau Kesatuan Luar	20
II.6.2 Proses	21

II.6.3	Data Store (Penyimpanan Data).....	22
II.6.4	Alur data (<i>Data Flow</i>).....	23
II.6.4.1	Konsep penggambaran alur data.....	23
II.6.4.2	Syarat-syarat pembuatan DFD adalah :.....	25
II.6.5	Bagan Alir (<i>Flowchart</i>)	25
II.6.5.1	Bagan Alir Sistem	26
II.6.5.2	Bagan Alir Dokumen	30
II.6.5.3	Bagan Alir Skematik.....	30
II.6.5.4	Bagan Alir Program.....	30
II.6.5.5	Bagan Alir Proses	31
II.7	Pengertian Database.....	31
II.7.1	Konsep Dasar <i>Entity</i> Relationship Diagram (ERD)	32
II.7.2	Komponen <i>Entity</i> Relationship Diagram	32
II.7.3	Kardinalitas dalam Relationship.....	34
II.7.4	Derajat (tingkat) Relationship.....	34
II.8	Normalisasi.....	35
II.9	PHP.....	36
II.10	Macromedia DreamWeaver MX.....	37
BAB III	ANALISIS DAN RANCANGAN SISTEM	40
III.1	Proses Bisnis.....	40
III.2	Flow Chart.....	43
III.2.1	Proses Rencana Budget.....	43
III.2.2	Proses Pengajuan NPB Sudah Anggar	44
III.2.3	Proses Pengajuan NPB Belum Anggar	45
III.2.4	Proses Approval NPB	46
III.2.5	Proses Insert Dan Edit Tabel.....	46
III.3	Entity Relational Diagram.....	47
III.4	Basis Data Relational	49
III.5	Data Flow Diagram (DFD).....	54
III.5.1	Context Diagram.....	54
III.5.2	Level 1	55
III.5.3	Level 2	60
III.5.3.1	Level 2 pada Proses 3	60
III.5.3.2	Level 2 pada Proses 5	61
III.5.3.3	Level 2 pada Proses 7	62
III.5.3.4	Level 2 pada Proses 10	63
III.5.3.5	Level 2 pada Proses 11	64
III.5.3.6	Level 2 pada Proses 12	65
III.5.3.7	Level 2 pada Proses 13	66
III.5.3.8	Level 2 pada Proses 14	67
III.5.3.9	Level 2 pada Proses 15	68
III.5.3.10	Level 2 pada Proses 16	69
III.5.3.11	Level 2 pada Proses 17	70
III.5.3.12	Level 2 pada Proses 18	71
III.5.3.13	Level 2 pada Proses 19	72
III.5.3.14	Level 2 pada Proses 20	73
III.5.3.15	Level 2 pada Proses 21	74

III.5.3.16 Level 2 pada Proses 22	75
III.5.3.17 Level 2 pada Proses 23	75
III.5.3.18 Level 2 pada Proses 24	76
III.5.4 Level 3	77
III.5.4.1 Level 3 pada Proses 5.2	77
III.5.4.2 Level 3 pada Proses 5.3	77
III.5.4.3 Level 3 pada Proses 5.4	78
III.6 PSPEC	78
III.7 Kamus Data.....	124
III.8 Sketsa <i>User Interface</i> (UI).....	135
III.8.1 Proses 1 - Login.....	136
III.8.2 Proses 3.1 – Pengisian Form NPB	139
III.8.3 Proses 3.2 – Dokumentasi.....	141
III.8.4 Proses 4 - Pengajuan NPB belum anggar.....	142
III.8.5 Proses 5.1 - Data Approve by Tanggal Request.....	144
III.8.6 Proses 5.2.1 - Workflow by Mastercard	144
III.8.7 Proses 5.2.2 - Workflow by Detail Mastercard	144
III.8.8 Proses 5.3.1 - Workflow by Biaya	145
III.8.9 Proses 5.3.2 - Workflow by Detail Biaya.....	145
III.8.10 Proses 5.4.1 - Workflow by Mastercard Alasan	145
III.8.11 Proses 5.4.2 - Workflow by Detail Mastercard Alasan ..	145
III.8.12 Proses 5.2 - Detail Data Approve Capex	146
III.8.13 Proses 6 - Status Capex.....	147
III.8.14 Proses 7.1 - Approve Opex.....	147
III.8.15 Proses 7.2 - Detail Data Approve Opex.....	148
III.8.16 Proses 8 - Status Opex.....	148
III.8.17 Proses 9 – Register	149
III.8.18 Proses 10.1 - View Tabel Cabang	149
III.8.19 Proses 10.2 - Search Tabel Cabang.....	150
III.8.20 Proses 10.3 - Insert Tabel Cabang	150
III.8.21 Proses 10.4 – Edit Tabel Cabang	150
III.8.22 Proses 10.5 – Delete Tabel Cabang:.....	151
III.8.23 Proses 11.1 - View Tabel Divisi	151
III.8.24 Proses 11.2 - Search Tabel Divisi.....	152
III.8.25 Proses 11.3 - Insert Tabel Divisi	153
III.8.26 Proses 11.4 – Edit Tabel Divisi.....	154
III.8.27 Proses 11.5 – Delete Tabel Divisi.....	154
III.8.28 Proses 12.1 - View Tabel Kios.....	155
III.8.29 Proses 12.2 - Search Tabel Kios	155
III.8.30 Proses 12.3 - Insert Tabel Kios.....	155
III.8.31 Proses 12.4 – Edit Tabel Kios.....	156
III.8.32 Proses 12.5 – Delete Tabel Kios	157
III.8.33 Proses 13.1 - View Tabel Group Area	157
III.8.34 Proses 13.2 - Search Tabel Group Area.....	157
III.8.35 Proses 13.3 - Insert Tabel Group Area	158
III.8.36 Proses 13.4 – Edit Tabel Group Area.....	158
III.8.37 Proses 13.5 – Delete Tabel Group Area.....	159

III.8.38	Proses 14.1 - View Tabel Kontak Pemohon	159
III.8.39	Proses 14.2 - Search Tabel Kontak Pemohon.....	159
III.8.40	Proses 14.3 - Insert Tabel Kontak Pemohon	160
III.8.41	Proses 14.4 – Edit Tabel Kontak Pemohon:	160
III.8.42	Proses 14.5 – Delete Tabel Kontak Pemohon	161
III.8.43	Proses 15.1 - View Tabel Capex	161
III.8.44	Proses 15.2 - Search Tabel Capex.....	162
III.8.45	Proses 15.3 - Insert Tabel Capex	163
III.8.46	Proses 15.4 – Edit Tabel Capex	164
III.8.47	Proses 15.5 – Delete Tabel Capex	165
III.8.48	Proses 16.1 - View Tabel Opex	165
III.8.49	Proses 16.2 - Search Tabel Opex.....	165
III.8.50	Proses 16.3 – Edit Tabel Opex.....	166
III.8.51	Proses 16.4 – Delete Tabel Opex.....	167
III.8.52	Proses 17.1 - View Tabel Subledger	167
III.8.53	Proses 17.2 - Search Tabel Subledger	167
III.8.54	Proses 17.3 - Insert Tabel Subledger	168
III.8.55	Proses 17.4 – Edit Tabel Subledger	168
III.8.56	Proses 17.5 – Delete Tabel Subledger	169
III.8.57	Proses 18.1 - View Tabel Mastercard	169
III.8.58	Proses 18.2 - Search Tabel Mastercard	170
III.8.59	Proses 18.3 - Insert Tabel Mastercard.....	170
III.8.60	Proses 18.4 – Edit Tabel Mastercard.....	170
III.8.61	Proses 18.5 – Delete Tabel Mastercard	171
III.8.62	Proses 19.1 - View Tabel Mastercard Alasan.....	171
III.8.63	Proses 19.2 - Search Tabel Mastercard Alasan	171
III.8.64	Proses 19.3 - Insert Tabel Mastercard Alasan.....	172
III.8.65	Proses 19.4 – Edit Tabel Mastercard Alasan.....	172
III.8.66	Proses 19.5 – Delete Tabel Mastercard Alasan.....	174
III.8.67	Proses 20.1 - View Tabel Mastercard Item.....	174
III.8.68	Proses 20.2 - Search Tabel Mastercard Item	174
III.8.69	Proses 20.3 - Insert Tabel Mastercard Item.....	175
III.8.70	Proses 20.4 – Edit Tabel Mastercard Item.....	175
III.8.71	Proses 20.5 – Delete Tabel Mastercard Item.....	176
III.8.72	Proses 21.1 - View Tabel Pertanyaan	176
III.8.73	Proses 21.2 - Search Tabel Pertanyaan.....	176
III.8.74	Proses 21.3 - Insert Tabel Pertanyaan	177
III.8.75	Proses 21.4 – Edit Tabel Pertanyaan	177
III.8.76	Proses 21.5 – Delete Tabel Pertanyaan	177
III.8.77	Proses 22.1 - View Tabel Keterangan Capex.....	178
III.8.78	Proses 22.2 - Search Tabel Keterangan Capex	178
III.8.79	Proses 22.3 - Insert Tabel Keterangan Capex.....	179
III.8.80	Proses 22.4 – Edit Tabel Keterangan Capex.....	179
III.8.81	Proses 22.5 – Delete Tabel Keterangan Capex.....	179
III.8.82	Proses 23.1 - View Tabel Users	180
III.8.83	Proses 23.2 - Search Tabel Users.....	180
III.8.84	Proses 23.3 - Edit Tabel Users.....	181

III.8.85	Proses 23.4 – Delete Tabel Users	182
III.8.86	Proses 24.1 - View Tabel Alasan Detail.....	182
III.8.87	Proses 24.2 - Search Tabel Alasan detail.....	183
III.8.88	Proses 24.3 - Insert Tabel Alasan Detail	183
III.8.89	Proses 24.4 – Edit Tabel Alasan detail	184
III.8.90	Proses 24.5 – Delete Tabel Alasan Detail	184
BAB IV HASIL PENELITIAN		185
IV.1	Login	185
IV.2	Register	186
IV.3	Rencana Budget.....	187
IV.4	NPB Sudah Anggar	195
IV.5	Kelengkapan Dokumen	199
IV.6	NPB Belum Anggar	201
IV.7	Status Approval Capex.....	202
IV.8	Request Approve Capex	202
IV.8.1	Request Approve Capex Kategori Biaya	203
IV.8.2	Request Approve Capex Kategori Tanggal Request ...	206
IV.8.3	Request Approve Capex Katogori Mastercard.....	207
IV.8.4	Request Approve Capex Kategori Alasan	210
IV.9	Status Approve Opex	211
IV.10	Request Approve Opex.....	211
IV.11	Detail Request Approve Opex.....	212
IV.12	Cabang	212
IV.12.1	Lihat Data Cabang.....	212
IV.12.2	Cari Data Cabang.....	213
IV.12.3	Tambah Data Cabang	214
IV.12.4	Ubah Data Cabang.....	214
IV.12.5	Hapus Data Cabang	215
IV.13	Divisi	215
IV.13.1	Lihat Data Divisi.....	215
IV.13.2	Cari Data Divisi.....	216
IV.13.3	Tambah Data Divisi	217
IV.13.4	Ubah Data Divisi.....	218
IV.13.5	Hapus Data Divisi	218
IV.14	Kontak.....	219
IV.14.1	Lihat Data Kontak	219
IV.14.2	Cari Data Kontak	219
IV.14.3	Tambah Data Kontak.....	220
IV.14.4	Ubah Data Kontak	220
IV.14.5	Hapus Data Kontak.....	221
IV.15	Kios.....	221
IV.15.1	Lihat Data Kios	221
IV.15.2	Cari Data Kios.....	222
IV.15.3	Tambah Data Kios.....	222
IV.15.4	Ubah Data Kios.....	223
IV.15.5	Hapus Data Kios.....	223
IV.16	Group.....	224

IV.16.1	Lihat Data Group	224
IV.16.2	Cari Data Group.....	224
IV.16.3	Tambah Data Group.....	225
IV.16.4	Ubah Data Group.....	225
IV.16.5	Hapus Data Group.....	226
IV.17	Capex	226
IV.17.1	Lihat Data Capex.....	226
IV.17.2	Cari Data Capex	227
IV.17.3	Tambah Data Capex.....	227
IV.17.4	Ubah Data Capex	228
IV.17.5	Hapus Data Capex	229
IV.18	Opex	230
IV.18.1	Lihat Data Opex.....	230
IV.18.2	Cari Data Opex	231
IV.18.3	Ubah Data Opex.....	231
IV.18.4	Hapus Data Opex	232
IV.19	Subledger	233
IV.19.1	Lihat Data Subledger	233
IV.19.2	Cari Data Subledger	233
IV.19.3	Tambah Data Subledger.....	234
IV.19.4	Ubah Data Subledger	235
IV.19.5	Hapus Data Subledger	235
IV.20	Mastercard.....	236
IV.20.1	Lihat Data Mastercard	236
IV.20.2	Cari Data Mastercard.....	236
IV.20.3	Tambah Data Mastercard	237
IV.20.4	Ubah Data Mastercard.....	237
IV.20.5	Hapus Data Mastercard.....	238
IV.21	Mastercard Alasan.....	238
IV.21.1	Lihat Data Mastercard Alasan	238
IV.21.2	Cari Data Mastercard Alasan.....	239
IV.21.3	Tambah Data Mastercard Alasan	240
IV.21.4	Ubah Data Mastercard Alasan.....	240
IV.21.5	Hapus Data Mastercard Alasan.....	241
IV.22	Mastercard Item	241
IV.22.1	Lihat Data Mastercard Item	241
IV.22.2	Cari Data Mastercard Item.....	242
IV.22.3	Tambah Data Mastercard Item	243
IV.22.4	Ubah Data Mastercard Item.....	243
IV.22.5	Hapus Data Mastercard Item.....	244
IV.23	Pertanyaan	244
IV.23.1	Lihat Data Pertanyaan	244
IV.23.2	Cari Data Pertanyaan	245
IV.23.3	Tambah Data Pertanyaan.....	245
IV.23.4	Ubah Data Pertanyaan	246
IV.23.5	Hapus Data Pertanyaan	246
IV.24	Keterangan Capex.....	247

IV.24.1	Lihat Data Keterangan Capex	247
IV.24.2	Cari Data Keterangan Capex.....	247
IV.24.3	Ubah Data Keterangan Capex.....	248
IV.24.4	Hapus Data Keterangan Capex.....	249
IV.25	User	249
IV.25.1	Lihat Data User.....	249
IV.25.2	Cari Data User.....	250
IV.25.3	Ubah Data User.....	250
IV.25.4	Hapus Data User	252
IV.26	Alasan Detail.....	253
IV.26.1	Lihat Data Alasan Detail	253
IV.26.2	Cari Data Alasan Detail	253
IV.26.3	Tambah Data Alasan Detail.....	254
IV.26.4	Ubah Data Alasan Detail	255
IV.26.5	Hapus Data Alasan Detail.....	255
BAB V	PEMBAHASAN DAN UJI COBA HASIL PENELITIAN	256
V.1	Evaluasi.....	256
V.2	User Acceptance Test	262
BAB VI	SIMPULAN DAN SARAN	266
VI.1	SIMPULAN.....	266
VI.2	Saran.....	267
DAFTAR PUSTAKA		1

DAFTAR GAMBAR

Gambar 1 Komponen Sistem Informasi (Rachmat, 2004:35)	6
Gambar 2 Konfigurasi DSS (David, 1992 : 75).....	14
Gambar 3 Terminator.....	21
Gambar 4 Proses.....	22
Gambar 5 Data Store.....	22
Gambar 6 Alur Data.....	23
Gambar 7 Konsep Paket Data	24
Gambar 8 Konsep Alur Data Menyebar	24
Gambar 9 Konsep Data Mengumpul.....	25
Gambar 10 Entitas.....	32
Gambar 11 Relasi.....	33
Gambar 12 Atribut	33
Gambar 13 Flow Chart Proses Rencana Budget	43
Gambar 14 Flow Chart Proses Pengajuan NPB Sudah Anggar	44
Gambar 15 Flow Chart Proses Pengajuan NPB Belum Anggar	45
Gambar 16 Proses Approval NPB.....	46
Gambar 17 Flow Chart Proses insert Dan Edit Tabel.....	46
Gambar 18 ERD	47
Gambar 19 Context Diagram	54
Gambar 20 DFD Level 1	55
Gambar 21 DFD Level 1 Lanjutan.....	56
Gambar 22 DFD Level 2 Proses 3	60
Gambar 23 DFD Level 2 Proses 5	61
Gambar 24 DFD Level 2 Proses 7	62
Gambar 25 DFD Level 2 Proses 10	63
Gambar 26 DFD Level 2 Proses 11	64
Gambar 27 DFD Level 2 Proses 12	65
Gambar 28 DFD Level 2 Proses 13	66
Gambar 29 DFD Level 2 Proses 14	67
Gambar 30 DFD Level 2 Proses 15	68
Gambar 31 DFD Level 2 Proses 16	69
Gambar 32 DFD Level 2 Proses 17	70
Gambar 33 DFD Level 2 Proses 18	71
Gambar 34 DFD Level 2 Proses 19	72
Gambar 35 DFD Level 2 Proses 20	73
Gambar 36 DFD Level 2 Proses 21	74
Gambar 37 DFD Level 2 Proses 22	75
Gambar 38 DFD Level 2 Proses 23	75
Gambar 39 DFD Level 2 Proses 24	76
Gambar 40 DFD Level3 pada Proses 5.2	77
Gambar 41 DFD Level 3 pada Proses 5.3	77
Gambar 42 DFD Level 3 pada Proses 5.4	78
Gambar 43 Sketsa UI Login.....	136
Gambar 44 Sketsa UI Pembuatan Budget.....	137
Gambar 45 Sketsa UI Form NPB.....	140
Gambar 46 Sketsa UI Dokumentasi.....	142

Gambar 47 Sketsa UI Pengajuan NPB Belum Anggar	143
Gambar 48 Sketsa UI Data Approve Capex.....	144
Gambar 49 Sketsa UI Workflow by Mastercard.....	144
Gambar 50 Sketsa UI Workflow by Detail Mastercard.....	144
Gambar 51 Sketsa UI Workflow by Biaya	145
Gambar 52 Sketsa UI Workflow by Detail Biaya	145
Gambar 53 Sketsa UI Workflow by Mastercard Alasan.....	145
Gambar 54 Sketsa UI Workflow by Detail Mastercard Alasan.....	145
Gambar 55 Sketsa UI Detail Data Approve Capex.....	147
Gambar 56 Sketsa UI Status Capex	147
Gambar 57 Sketsa UI Approve Opex.....	147
Gambar 58 Sketsa UI Detail Data Approve Opex	148
Gambar 59 Sketsa UI Status Opex.....	148
Gambar 60 Sketsa UI Register	149
Gambar 61 Sketsa UI View Tabel Cabang.....	149
Gambar 62 Sketsa UI Search Tabel Cabang	150
Gambar 63 Sketsa UI Insert Tabel Cabang	150
Gambar 64 Sketsa UI Edit Tabel Cabang	151
Gambar 65 Sketsa UI Delete Tabel Cabang.....	151
Gambar 66 Sketsa UI View Tabel Divisi.....	152
Gambar 67 Sketsa UI Search Tabel Divisi	152
Gambar 68 Insert Tabel Divisi.....	153
Gambar 69 Sketsa UI Edit Tabel Divisi	154
Gambar 70 Sketsa UI Delete Tabel Divisi.....	154
Gambar 71 Sketsa UI View Tabel Kios.....	155
Gambar 72 Sketsa UI Search Tabel Kios.....	155
Gambar 73 Sketsa UI Insert Tabel Kios.....	156
Gambar 74 Sketsa UI Edit Tabel Kios.....	156
Gambar 75 Sketsa UI Delete Tabel Kios.....	157
Gambar 76 Sketsa UI View Tabel Group Area.....	157
Gambar 77 Sketsa UI Search Tabel Group Area	158
Gambar 78 Sketsa UI Insert Tabel Group Area.....	158
Gambar 79 Sketsa UI Edit Tabel Group Area	158
Gambar 80 Sketsa UI Delete Tabel Group Area	159
Gambar 81 Sketsa UI View Tabel Kontak Pemohon.....	159
Gambar 82 Sketsa UI Search Tabel Kontak Pemohon	160
Gambar 83 Insert Tabel Kontak Pemohon	160
Gambar 84 Edit Tabel Kontak Pemohon.....	161
Gambar 85 Delete Tabel Kontak Pemohon.....	161
Gambar 86 Sketsa UI View Tabel Capex.....	162
Gambar 87 Sketsa UI Search Tabel Capex	162
Gambar 88 Sketsa UI Insert Tabel Capex.....	163
Gambar 89 Sketsa UI Edit Tabel Capex	164
Gambar 90 Sketsa UI Delete Tabel Capex	165
Gambar 91 Sketsa UI View Tabel Opex.....	165
Gambar 92 Sketsa UI Search Tabel Opex.....	166
Gambar 93 Sketsa UI Edit Tabel Opex	166
Gambar 94 Sketsa UI Delete Tabel Opex.....	167
Gambar 95 Sketsa UI View Tabel Subledger.....	167
Gambar 96 Sketsa UI Search Tabel Subledger	168
Gambar 97 Sketsa UI Insert Tabel Subledger.....	168

Gambar 98 Sketsa UI Edit Tabel Subledger	169
Gambar 99 Sketsa UI Delete Tabel Subledger	169
Gambar 100 Sketsa UI View Tabel Mastercard	170
Gambar 101 Sketsa UI Search Tabel Mastercard	170
Gambar 102 Sketsa UI Insert Tabel Mastercard	170
Gambar 103 Sketsa UI Edit Tabel Mastercard	171
Gambar 104 Sketsa UI Delete Tabel Mastercard	171
Gambar 105 Sketsa UI View Tabel Mastercard Alasan	171
Gambar 106 Sketsa UI Search Tabel Mastercard Alasan	172
Gambar 107 Sketsa UI Insert Tabel Mastercard Alasan	172
Gambar 108 Sketsa UI Edit table Mastercard Alasan	173
Gambar 109 Sketsa UI Delete Tabel Mastercard Alasan	174
Gambar 110 Sketsa UI View Tabel Mastercard Item	174
Gambar 111 Sketsa UI Search Tabel Mastercard Item	174
Gambar 112 Sketsa UI Insert Tabel Mastercard Item	175
Gambar 113 Sketsa UI Edit Tabel Mastercard Item	175
Gambar 114 Sketsa UI Delete Tabel Mastercard Item	176
Gambar 115 Sketsa UI View Tabel Pertanyaan	176
Gambar 116 Sketsa UI Search Tabel Pertanyaan	176
Gambar 117 Sketsa UI Insert Tabel Pertanyaan	177
Gambar 118 Sketsa UI Edit Tabel Pertanyaan	177
Gambar 119 Sketsa UI Delete Tabel Pertanyaan	178
Gambar 120 Sketsa UI View Tabel Keterangan Capex	178
Gambar 121 Sketsa UI Search Tabel Keterangan Capex	178
Gambar 122 Sketsa UI Insert Tabel Keterangan Capex	179
Gambar 123 Sketsa UI Edit Tabel Keterangan Capex	179
Gambar 124 Sketsa UI Edit Tabel Keterangan Capex	180
Gambar 125 Sketsa UI View Tabel Users	180
Gambar 126 Sketsa UI Search Tabel Users	180
Gambar 127 Sketsa UI Edit Tabel Users	181
Gambar 128 Sketsa UI Edit Tabel Users	182
Gambar 129 Sketsa UI View Tabel Alasan Detail	182
Gambar 130 Sketsa UI Search Tabel Alasan Detail	183
Gambar 131 Sketsa UI Insert Tabel Alasan Detail	183
Gambar 132 Sketsa UI Edit table Alasan Detail	184
Gambar 133 Sketsa UI Delete Tabel Alasan Detail	184
Gambar 134 Menu Login	185
Gambar 135 Menu Register	186
Gambar 136 Menu Rencana Budget	187
Gambar 137 Pilih Cabang	188
Gambar 138 Pilih Divisi	188
Gambar 139 Pilih Kios	189
Gambar 140 Pilih Mastercard	189
Gambar 141 Tampilan data perbandingan Persentase Mastercard	190
Gambar 142 pilih Mastercard Alasan	191
Gambar 143 Tampilan data perbandingan Persentase Mastercard dan Keterangan	
192	
Gambar 144 Alert anggaran maksimum	193
Gambar 145 Alasan Detail	193
Gambar 146 Rincian anggaran yang dipergunakan	194
Gambar 147 Notifikasi berhasil menganggarkan budget	195

Gambar 148 Pilih Cabang.....	195
Gambar 149 Pilih Divisi.....	196
Gambar 150 Pilih Kios.....	196
Gambar 151 Pilih Alasan.....	197
Gambar 152 Pilih Alasan Detail.....	197
Gambar 153 Pengajuan NPB Sudah Anggar.....	198
Gambar 154 Kelengkapan Dokumen.....	199
Gambar 155 File Upload.....	200
Gambar 156 NPB Belum Anggar.....	201
Gambar 157 Status Approval Capex.....	202
Gambar 158 Request Approve Capex.....	203
Gambar 159 Request Approve Capex kategori Biaya.....	204
Gambar 160 Lihat Detail.....	204
Gambar 161 Detail Request Approve Capex.....	205
Gambar 162 Kategori Tanggal Request.....	206
Gambar 163 Kategori Mastercard.....	207
Gambar 164 Lihat Detail.....	207
Gambar 165 Detail Request Approve Capex.....	209
Gambar 166 Kategori Alasan.....	210
Gambar 167 Lihat Detail.....	210
Gambar 168 Status Approve Opex.....	211
Gambar 169 Request Approve Opex.....	211
Gambar 170 Detail Request Approve Opex.....	212
Gambar 171 Lihat Data Cabang.....	213
Gambar 172 Cari Data Cabang.....	214
Gambar 173 Tambah Data Cabang.....	214
Gambar 174 Ubah Data Cabang.....	215
Gambar 175 Hapus Data Cabang.....	215
Gambar 176 Lihat Data Divisi.....	216
Gambar 177 Cari Data Divisi.....	217
Gambar 178 Tambah Divisi.....	217
Gambar 179 Ubah Data Divisi.....	218
Gambar 180 Hapus Data Divisi.....	218
Gambar 181 Lihat Data Kontak.....	219
Gambar 182 Cari Data Kontak.....	219
Gambar 183 Tambah Kontak.....	220
Gambar 184 Ubah Data Kontak.....	220
Gambar 185 Hapus Data Kontak.....	221
Gambar 186 Lihat Data Kios.....	221
Gambar 187 Cari Data Kios.....	222
Gambar 188 Tambah Kios.....	223
Gambar 189 Ubah Data Kios.....	223
Gambar 190 Hapus Data Kios.....	224
Gambar 191 Lihat Data Group.....	224
Gambar 192 Cari Data Group.....	225
Gambar 193 Tambah Group.....	225
Gambar 194 Ubah Data Group.....	226
Gambar 195 Hapus Data Group.....	226
Gambar 196 Lihat Data Capex.....	227
Gambar 197 Cari Data Capex.....	227
Gambar 198 Tambah Capex.....	228

Gambar 199 Ubah Data Capex.....	229
Gambar 200 Hapus Data Capex.....	230
Gambar 201 Lihat Data Opex	230
Gambar 202 Cari Data Opex	231
Gambar 203 Tambah Opex	232
Gambar 204 Hapus Data Opex.....	232
Gambar 205 Lihat Data Subledger.....	233
Gambar 206 Cari Data Subledger.....	234
Gambar 207 Tambah Subledger.....	234
Gambar 208 Ubah Data Subledger.....	235
Gambar 209 Hapus Data Subledger.....	235
Gambar 210 Lihat Data Mastercard	236
Gambar 211 Cari Data Mastercard	237
Gambar 212 Tambah Mastercard	237
Gambar 213 Ubah Data Mastercard	238
Gambar 214 Hapus Data Mastercard	238
Gambar 215 Lihat Data Mastercard Alasan	239
Gambar 216 Cari Data Mastercard Alasan	239
Gambar 217 Tambah Mastercard Alasan	240
Gambar 218 Ubah Data Mastercard Alasan	241
Gambar 219 Hapus Data Mastercard Alasan.....	241
Gambar 220 Lihat Data Mastercard Item	242
Gambar 221 Cari Data Mastercard Item	242
Gambar 222 Tambah Mastercard Item	243
Gambar 223 Ubah Data Mastercard Item	244
Gambar 224 Hapus Data Mastercard Item.....	244
Gambar 225 Lihat Data Pertanyaan.....	245
Gambar 226 Cari Data Pertanyaan.....	245
Gambar 227 Tambah Pertanyaan.....	246
Gambar 228 Ubah Data Pertanyaan.....	246
Gambar 229 Hapus Data Pertanyaan.....	246
Gambar 230 Lihat Data Keterangan Capex	247
Gambar 231 Cari Data Keterangan Capex	248
Gambar 232 Tambah Keterangan Capex	248
Gambar 233 Hapus Data Keterangan Capex.....	249
Gambar 234 Hapus Data User.....	249
Gambar 235 Cari Data User	250
Gambar 236 Tambah User	251
Gambar 237 Hapus Data User.....	252
Gambar 238 Lihat Data Alasan Detail.....	253
Gambar 239 Cari Data Alasan Detail	254
Gambar 240 Tambah Data Alasan Detail.....	254
Gambar 241 Ubah Data Alasan Detail	255
Gambar 242 Hapus Data Alasan Detail	255

DAFTAR TABEL

Tabel I Teknik Pengambilan Keputusan (Alder, 1991: 51)	12
Tabel II Bagan Alir Sistem	29
Tabel III Entity Kios	49
Tabel IV Entity group_area	49
Tabel V Entity cabang	49
Tabel VI Entity Divisi	49
Tabel VII Entity kontak_pemohon	49
Tabel VIII Entity capex	50
Tabel IX Entity keterangan_capex	50
Tabel X Entity pertanyaan	51
Tabel XI Entity mastercard_item	51
Tabel XII Entity mastercard	51
Tabel XIII Entity mastercard_alasan	51
Tabel XIV Entity alasan_detail	51
Tabel XV Entity subledger	52
Tabel XVI Entity opex	52
Tabel XVII Entity user	53
Tabel XVIII PSPEC DFD Proses 1 Login	78
Tabel XIX PSPEC DFD Proses 2 Pembuatan Budget	79
Tabel XX PSPEC DFD Proses 3.1 pengisian Form NPB	80
Tabel XXI PSPEC DFD Proses 3.2 Dokumentasi	81
Tabel XXII PSPEC DFD Proses 4 Pengajuan NPB belum anggar	81
Tabel XXIII PSPEC DFD Proses 5.1 Approve by Tanggal Request	81
Tabel XXIV PSPEC DFD Proses 5.1 Approve by Mastercard	82
Tabel XXV PSPEC DFD Proses 5.3 Approve by Biaya	82
Tabel XXVI PSPEC DFD Proses 5.3 Approve by Alasan	83
Tabel XXVII PSPEC DFD Proses 5.2.1 proses workflow by Mastercard	83
Tabel XXVIII PSPEC DFD Proses 5.3.1 Workflow by Biaya Detail	83
Tabel XXIX PSPEC DFD Proses 5.2.2 Workflow by Mastercard Alasan	84
Tabel XXX PSPEC DFD Proses 5.2.2 Workflow by Detail Mastercard	84
Tabel XXXI PSPEC DFD Proses 5.3.2 Workflow by Detail Biaya	85
Tabel XXXII PSPEC DFD Proses 5.4.2 Workflow by Detail Mastercard Alasan	85
Tabel XXXIII PSPEC DFD Proses 6 Status Capex	86
Tabel XXXIV PSPEC DFD Proses 7.1 Data Pprove Opex	86
Tabel XXXV PSPEC DFD Proses 7.2 Detail Data Approve Opex	87
Tabel XXXVI PSPEC DFD Proses 8 Status Opex	87
Tabel XXXVII PSPEC DFD Proses 9 Register	87
Tabel XXXVIII PSPEC DFD Proses 10.1 View Tabel Cabang	88
Tabel XXXIX PSPEC DFD Proses 10.2 Search Tabel Cabang	88
Tabel XL PSPEC DFD Proses 10.3 Insert Tabel Cabang	89
Tabel XLI PSPEC DFD Proses 10.4 Edit Tabel Cabang	89
Tabel XLII PSPEC DFD Proses 10.5 Delete Tabel Cabang	90
Tabel XLIII PSPEC DFD Proses 11.1 View Tabel Divisi	90
Tabel XLIV PSPEC DFD Proses 11.2 Search Tabel Divisi	91
Tabel XLV PSPEC DFD Proses 11.3 Insert Tabel Divisi	91

Tabel XLVI PSPEC DFD Proses 11.4 Edit Tabel Divisi.....	92
Tabel XLVII PSPEC DFD Proses 11.5 Delete Tabel Divisi	92
Tabel XLVIII PSPEC DFD Proses 12.1 View Tabel Kios.....	93
Tabel XLIX PSPEC DFD Proses 12.2 Search Tabel Kios	93
Tabel L PSPEC DFD Proses 12.3 Insert Tabel Kios	94
Tabel LI PSPEC DFD Proses 12.4 Edit Table Kios.....	94
Tabel LII PSPEC DFD Proses 12.5 Delete Tabel Kios.....	95
Tabel LIII PSPEC DFD Proses 13.1 View Tabel Group Area	95
Tabel LIV PSPEC DFD Proses 13.2 Search Tabel Group Area	96
Tabel LV PSPEC DFD Proses 13.3 Insert Tabel Group Area	96
Tabel LVI PSPEC DFD Proses 13.4 Edit Tabel Group Area	97
Tabel LVII PSPEC DFD Proses 13.5 Delete Tabel Group Area	97
Tabel LVIII PSPEC DFD Proses 14.1 View Tabel Kontak Pemohon.....	98
Tabel LIX PSPEC DFD Proses 14.2 Search Tabel Kontak Pemohon	98
Tabel LX PSPEC DFD Proses 14.3 Insert Tabel Kontak Pemohon.....	98
Tabel LXI PSPEC DFD Proses 14.4 Edit Tabel Kontak Pemohon	99
Tabel LXII PSPEC DFD Proses 14.5 Delete Tabel Kontak Pemohon	100
Tabel LXIII PSPEC DFD Proses 15.1 View Tabel Capex.....	100
Tabel LXIV PSPEC DFD Proses 15.2 Search Tabel Capex.....	101
Tabel LXV PSPEC DFD Proses 15.3 Insert Tabel Capex	101
Tabel LXVI PSPEC DFD Proses 15.4 Edit Tabel Capex.....	102
Tabel LXVII PSPEC DFD Proses 15.5 Delete Tabel Capex.....	103
Tabel LXVIII PSPEC DFD Proses 16.1 View Tabel Opex	103
Tabel LXIX PSPEC DFD Proses 16.2 Search Tabel Opex	104
Tabel LXX PSPEC DFD Proses 16.3 Edit Tabel Opex.....	104
Tabel LXXI PSPEC DFD Proses 16.4 Delete Tabel Opex.....	105
Tabel LXXII PSPEC DFD Proses 17.1 View Tabel Subledger	105
Tabel LXXIII PSPEC DFD Proses 17.2 Search Tabel Subledger.....	106
Tabel LXXIV PSPEC DFD Proses 17.3 Insert Tabel Subledger.....	106
Tabel LXXV PSPEC DFD Proses 17.4 Edit Tabel Subledger.....	107
Tabel LXXVI PSPEC DFD Proses 17.5 Delete Tabel Subledger	107
Tabel LXXVII PSPEC DFD Proses 18.1 View Tabel Mastercard	108
Tabel LXXVIII PSPEC DFD Proses 18.2 Search Tabel Mastercard.....	108
Tabel LXXIX PSPEC DFD Proses 18.3 Insert Tabel Mastercard	109
Tabel LXXX PSPEC DFD Proses 18.4 Edit Tabel Mastercard	109
Tabel LXXXI PSPEC DFD Proses 18.5 Delete Tabel Mastercard.....	110
Tabel LXXXII PSPEC DFD Proses 19.1 View Tabel Mastercard Alasan.....	110
Tabel LXXXIII PSPEC DFD Proses 19.2 Search Tabel Mastercard Alasan	110
Tabel LXXXIV PSPEC DFD Proses 19.3 Insert Tabel Mastercard Alasan	111
Tabel LXXXV PSPEC DFD Proses 19.4 Edit Tabel Mastercard Alasan.....	111
Tabel LXXXVI PSPEC DFD Proses 19.5 Delete Tabel Mastercard Alasan.....	112
Tabel LXXXVII PSPEC DFD Proses 20.1 View Tabel Mastercard Item	113
Tabel LXXXVIII PSPEC DFD Proses 20.2 Search Tabel Mastercard Item.....	113
Tabel LXXXIX PSPEC DFD Proses 20.3 Insert Tabel Mastercard Item.....	113
Tabel XC PSPEC DFD Proses 20.4 Edit Tabel Mastercard Item	114
Tabel XCI PSPEC DFD Proses 20.5 Delete Tabel Mastercard Item	115
Tabel XCII PSPEC DFD Proses 21.1 View Tabel Pertanyaan	115
Tabel XCIII PSPEC DFD Proses 21.2 Search Tabel Pertanyaan.....	116
Tabel XCIV PSPEC DFD Proses 21.3 Insert Tabel Pertanyaan.....	116
Tabel XCV PSPEC DFD Proses Edit 21.4 Tabel Pertanyaan	116
Tabel XCVI PSPEC DFD Proses 21.5 Delete Tabel Pertanyaan	117

Tabel XCVII PSPEC DFD Proses 21.1 View Tabel Keterangan Capex	118
Tabel XCVIII PSPEC DFD Proses 22.2 Search Tabel Keterangan Capex.....	118
Tabel XCIX PSPEC DFD Proses 22.3 Edit Tabel Keterangan Capex.....	118
Tabel C PSPEC DFD Proses 22.4 Delete Tabel Keterangan Capex.....	119
Tabel CI PSPEC DFD Proses 23.1 View Tabel Users	119
Tabel CII PSPEC DFD Proses 23.2 Search Tabel Users.....	120
Tabel CIII PSPEC DFD Proses 23.3 Edit Tabel Users.....	120
Tabel CIV PSPEC DFD Proses 23.4 Delete Tabel Users	121
Tabel CV PSPEC DFD Proses 24.1 View Tabel Alasan Detail	121
Tabel CVI PSPEC DFD Proses 20.2 Search Tabel Alasan Detail.....	122
Tabel CVII PSPEC DFD Proses 20.3 Insert Tabel Alasan Detail	122
Tabel CVIII PSPEC DFD Proses 20.4 Edit Tabel Alasan Detail	123
Tabel CIX PSPEC DFD Proses 20.5 Delete Tabel Alasan Detail.....	123
Tabel CX Kamus Data group_area	124
Tabel CXI Kamus Data cabang.....	125
Tabel CXII Kamus Data divisi	125
Tabel CXIII Kamus Data kontak_pemohon	126
Tabel CXIV Kamus Data kios.....	127
Tabel CXV Kamus Data capex	128
Tabel CXVI Kamus Data keterangan_capex.....	129
Tabel CXVII Kamus Data pertanyaan	130
Tabel CXVIII Kamus Data mastercard_item.....	130
Tabel CXIX Kamus Data mastercard	131
Tabel CXX Kamus Data mastercard_alasan.....	132
Tabel CXXI Kamus Data subledger	132
Tabel CXXII Kamus Data opex	133
Tabel CXXIII Kamus Data users	134

DAFTAR ISTILAH

Agreement	: Pihak yang memiliki otoritas untuk menentukan status NPB (manajer bagian keuangan)
Alasan Detail	: Penjelasan secara rinci alasan pengajuan budget
Approval	: Proses uji kelayakan NPB
Approved	: Status pengajuan NPB yang dinyatakan telah disetujui pihak <i>agreement</i>
Budget	: Anggaran
Capex	: Capital Expenditure, nama lain dari NPB sudah anggar
Group Area	: Satuan wilayah yang didalamnya mencakup Cabang, Divisi, dan Kios
Kios	: Unit terkecil dalam group area
Mastercard	: Pengelompokan jenis acuan anggaran
Mastercard Alasan	: Keterangan yang berkaitan dengan jenis acuan anggaran yang ada pada NPB
NPB	: Nota Pengeluaran Biaya, dokumen yang berisi rincian anggaran yang diajukan untuk digunakan satu tahun kedepan
NPB Sudah Anggar	: NPB yang secara periodik diajukan setelah melalui proses pengajuan <i>budget</i>
NPB Belum Anggar	: NPB yang diajukan karena keadaan tidak terduga atau bersifat <i>accidental</i>
Opex	: Operational Expenditure, nama lain dari NPB belum anggar
Pending	: Status NPB yang dinyatakan belum melalui proses <i>approval</i>
Persentase Budget	: Perhitungan <i>budget</i> terhadap anggaran yang diajukan pada dua tahun sebelumnya
Rejected	: Status NPB yang dinyatakan ditolak

Subledger : Keterangan yang berkaitan dengan pengajuan yang ada pada NPB belum anggar