

ABSTRACT

Information technology development is growing really fast, this is reflected by the numerous application used by companies in managing data as well as running their business processes, one of the developing technologies is the use of desktop application on sales and stock system information. The reason why this application is made is to help user managing inventory data that are coming in and going out. The writer uses interviewing method in gathering data resources by asking directly to the people, experts or authorities. Other than that the writer also uses empirical method in his research which is scientific method that uses inductive thinking pattern. The research began from facts obtained from the field and are specific in nature. Whereas data obtained in empirical method are primary data.

Keyword : Information System, sale, stocks

DAFTAR ISI

LEMBAR PENGESAHAN	i
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN	ii
PERNYATAAN ORISINALITAS LAPORAN PENELITIAN	iii
PRAKATA	iv
ABCTARCT	vi
DAFTAR ISI	vii
DAFTAR GAMBAR	ix
DAFTAR TABEL	xiii
BAB I PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah	1
1.3 Tujuan Pembahasan	2
1.4 Ruang Lingkup Kajian	2
1.5 Sistematika Penyajian	3
BAB II KAJIAN TEORI	5
2.1 Java	5
2.1.1 Pengertian Java	5
2.1.2 Kelebihan Java	6
2.1.3 Feature Java	8
2.1.3.2 Graphical User Interfaces (GUI)	10
2.1.3.3 Exception Handling	11
2.2 Entity Relationship Diagram (ERD) (prihatini,2009)	13
2.2.1 Pengertian ERD	13
2.2.2 Notasi ERD	13
2.2.3 Entitas	14
2.2.4 Relasi dalam ERD	15
2.3 Data Flow Diagram	18
2.3.1 Pengertian <i>Data Flow Diagram</i> (DFD)	18
2.3.2 Simbol dalam DFD	20
2.3.3 Aturan dalam DFD	20
2.4 Simbol–Simbol Flowchart	21
2.5 Data Dictionary (kamus data)	24
2.6 Process Specification (PSPEC)	25
BAB III ANALISIS DAN PERANCANGAN SISTEM	26
3.1 Proses Bisnis	26
3.2 Struktur Organisasi Perusahaan	27
3.3 Flowchart	28
3.4 ER-Diagram	30
3.5 Database Design	31
3.6 DFD	32
3.7 PSPEC	40
3.8 Kamus Data	51
3.9 Functional Specification	54

BAB IV PERANCANGAN DAN IMPELEMNTASI	68
4.1 Halaman Login.....	68
4.2 Halaman <i>Manage Customer</i>	69
4.3 Halaman <i>Manage Vendor</i>	70
4.4 Halaman <i>Manage Karyawan</i>	71
4.5 Halaman <i>Manage Barang</i>	72
4.6 Halaman <i>Manage Admin</i>	73
4.7 Halaman Pembelian.....	74
4.8 Halaman Penjualan.....	75
4.9 Halaman Report Pembelian	76
4.10 Halaman Report Barang	77
BAB V PENGUJIAN	78
5.1 Proses Login	78
5.2 Proses Manage.....	80
5.2.1 Pencarian Data <i>Customer</i>	81
5.2.2 Proses Tambah Data <i>Customer</i>	84
5.2.3 Proses Ubah Data	88
5.2.4 Proses Hapus Data	89
5.3 Proses Transakso Pembelian	90
5.3.1 Proses Tambah Data Transaksi Baru.....	90
5.3.2 ProsesTambah Data Pembelian.....	93
5.3.3 Proses Simpan Data Pembelian.....	95
5.3.4 Proses Hapus Data Pembelian	96
5.3.5 Proses Simpan Data Transaksi Baru.....	97
5.4 Proses Transaksi Penjualan	98
5.4.1 Proses Tambah Data Transaksi Baru.....	98
5.4.2 Proses Tambah Data Penjualan.....	100
5.4.3 Proses Simpan Data Penjualan.....	102
5.4.4 Proses Hapus Data Penjualan	103
5.4.5 Proses Simpan Data Transaksi Baru.....	104
5.5 Proses Transaksi pembelian.....	105
5.5.1 Proses Tambah Transaksi Baru	105
5.5.2 Proses Tambah Data Pembelian.....	106
5.5.3 Proses Simpan Data Pembelian.....	109
5.5.4 Proses Hapus Data Pembelian	110
5.5.5 Proses Simpan Transaksi Pembelian.....	111
5.6 Proses Report Laporan Penjualan	112
5.7 Proses Report Laporan Pembelian	114
BAB VI SIMPULAN DAN SARAN	105
6.1 SIMPULAN	105
6.2 SARAN	106
DAFTAR PUSTAKA	xv
LAMPIRAN	xvi

DAFTAR TABEL

Tabel I	Komponen Java	10
Tabel II	<i>Exception tipe</i>	12
Tabel III	Notasi ERD.....	13
Tabel IV	Simbol dalam DFD.....	20
Tabel V	Simbol dalam kamus data.....	24
Tabel VI	Isi kamus data.....	25
Tabel VII	Isi PSPEC.....	25
Tabel VIII	PSPEC Tambah data <i>Customer</i>	40
Tabel IX	PSPEC Ubah Data <i>Customer</i>	40
Tabel X	PSPEC Hapus Data <i>Customer</i>	41
Tabel XI	PSPEC Cari Data <i>Customer</i>	41
Tabel XII	PSPEC Tambah Data <i>Vendor</i>	42
Tabel XIII	PSPEC Ubah Data <i>Vendor</i>	42
Tabel XIV	PSPEC Hapus Data <i>Vendor</i>	43
Tabel XV	PSPEC Cari Data <i>Vendor</i>	43
Tabel XVI	PSPEC Tambah Data Karyawan.....	44
Tabel XVII	PSPEC Ubah Data Karyawan.....	44
Tabel XVIII	PSPEC Hapus Data Karyawan.....	45
Tabel XIX	PSPEC Cari Data Karyawan.....	45
Tabel XX	PSPEC Tambah Data Barang.....	46
Tabel XXI	PSPEC Ubah Data Barang.....	46
Tabel XXII	PSPEC Hapus Data Barang.....	47

Tabel XXIII	PSPEC Cari Data Barang.....	47
Tabel XXIV	PSPEC Tambah Data Penjualan	48
Tabel XXV	PSPEC Ubah Data Penjualan.....	48
Tabel XXVI	PSPEC Hapus Data Penjualan.....	49
Tabel XXVII	PSPEC Tambah Data Pembelian	49
Tabel XXVIII	PSPEC Ubah Data Pembelian.....	50
Tabel XXIX	PSPEC Hapus Data Pembelian.....	50
Tabel XXX	Kamus Data Karyawan	51
Tabel XXXI	Kamus Data <i>Vendor</i>	51
Tabel XXXII	Kamus Data <i>Customer</i>	52
Tabel XXXIII	Kamus Data Barang	52
Tabel XXXIV	Kamus Data Penjualan	53
Tabel XXXV	Kamus Data Pembelian	53

DAFTAR GAMBAR

Gambar 1	<i>Inheritance</i>	9
Gambar 2	<i>Exception Handling</i>	12
Gambar 3	simbol satu ke satu - <i>non obligatory</i>	15
Gambar 4	simbol satu ke satu – <i>obligatory</i>	15
Gambar 5	simbol satu ke banyak.....	16
Gambar 6	simbol banyak ke Satu.....	16
Gambar 7	simbol banyak ke banyak – <i>non obligatory</i>	17
Gambar 8	simbol banyak ke banyak <i>obligatory</i>	17
Gambar 9	<i>Flow Direction Symbols</i>	21
Gambar 10	<i>Processing Symbols</i>	23
Gambar 11	Input-Output Symbols.....	24
Gambar 12	Struktur Organisasi.....	27
Gambar 13	<i>Flowchart</i> Pengadaan Barang	28
Gambar 14	<i>Flowchart</i> Penjualan Barang	29
Gambar 15	ER-Diagram	30
Gambar 16	Database Design	31
Gambar 17	Context Diagram	32
Gambar 18	DFD Level 1	33
Gambar 19	DFD Level 2 Proses 2 Manage	34
Gambar 20	DFD Level 2 Proses 3 Transaksi	35
Gambar 21	DFD Level 3 Proses 1.1 olah data customer	35
Gambar 22	DFD Level 3 Proses 2.2 olah data vendor	36

Gambar 23 DFD Level 3 Proses 2.3 olah data karyawan	37
Gambar 24 DFD Level 3 Proses 2.4 olah data barang	38
Gambar 25 DFD Level 3 Proses 3.1.1 olah data penjualan	39
Gambar 26 DFD Level 3 Proses 3.2.1 olah data pembelian	39
Gambar 27 Screen <i>Login</i>	54
Gambar 28 Screen Home.....	55
Gambar 29 Screen Penjualan	56
Gambar 30 Screen Pembelian	58
Gambar 31 Screen Manage Barang	60
Gambar 32 Screen Manage Karyawan.....	62
Gambar 33 Screen Manage Vendor.....	64
Gambar 34 Screen Manage Customer.....	66
Gambar 34 Halaman <i>Login</i>	68
Gambar 35 Halaman Manage Customer.....	69
Gambar 36 Halaman Manage Vendor.....	70
Gambar 37 Halaman Manage Karyawan.....	71
Gambar 38 Halaman Manage Barang.....	72
Gambar 39 Halaman Manage Admin.....	73
Gambar 40 Halaman Pembelian.....	74
Gambar 41 Halaman Penjualan.....	75
Gambar 42 Halaman Report Pembelian.....	76
Gambar 43 Halaman Report Barang.....	77
Gambar 44 <i>Login</i> Berhasil.....	78
Gambar 45 <i>Login</i> Gagal	79
Gambar 46 Proses <i>Manage</i>	80

Gambar 47 Memilih kategori pencarian 1 ...	81
Gambar 48 Memilih kategori pencarian 2	82
Gambar 49 Hasil Pencarian.....	83
Gambar 50 Tombol Tambah.....	84
Gambar 51 Baris Baru Pada Table.....	85
Gambar 52 Pesan meminta user melengkapi data.....	86
Gambar 53 Input data berhasil.....	87
Gambar 54 Ubah Data.....	88
Gambar 55 Hapus Data.....	89
Gambar 56 Tambah Pembelian Transaksi Baru.....	90
Gambar 57 Proses memilih data cendor.....	91
Gambar 58 Proses mengisi tanggal transaksi	92
Gambar 59 Tambah data pembelian.....	93
Gambar 60 Proses input data pembelian.....	94
Gambar 61 Proses simpan data pembelian.....	95
Gambar 62 Proses hapus data pembelian.....	96
Gambar 63 Simpan Transaksi Pembelian	97
Gambar 64 Tambah Penjualan Transaksi Baru	98
Gambar 65 Proses input data no customer dan tanggal transaksi	99
Gambar 66 Proses tambah data penjualan.....	100
Gambar 67 Proses input data penjualan	101
Gambar 68 Proses simpan data penjualan	102
Gambar 69 Proses hapus data penjualan	103
Gambar 70 Simpan transaksi penjualan	104
Gambar 71 Proses tambah transaksi baru	105

Gambar 72 Proses tambah data pembelian 1	106
Gambar 73 Proses input data pembelian 1	107
Gambar 74 Proses input data pembelian 2	108
Gambar 75 Proses simpan data pembelian	109
Gambar 76 Proses hapus data pembelian	110
Gambar 77 Proses simpan transaksi pembelian	111
Gambar 78 Proses report laporan penjualan 1	112
Gambar 79 Proses report laporan penjualan 2	113
Gambar 80 Proses report laporan pembelian 1	114
Gambar 81 Proses report laporan pembelian 2	115