

DAFTAR ISI

LEMBAR PENGESAHAN	i
SURAT PERNYATAAN	ii
ABSTRAK	iii
<i>ABSTRACT</i>	iv
KATA PENGANTAR	v
DAFTAR ISI	vii
DAFTAR TABEL	xiii
DAFTAR GAMBAR	xv
BAB I PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Identifikasi Masalah	3
1.3 Rumusan Masalah	4
1.4 Tujuan dan Manfaat Penelitian	4
1.5 Batasan Masalah.....	5
1.6 Sistematika Penulisan	6
BAB II LANDASAN TEORI	7
2.1 Konsep Dasar Sistem.....	7
2.1.1 Definisi Sistem.....	7
2.1.2 Karakteristik Sistem	8
2.2 Konsep Dasar Informasi	9
2.2.1 Definisi Data	9
2.2.2 Definisi Informasi	10
2.2.3 Nilai Dan Kualitas Informasi	10
2.3 Konsep Dasar Sistem Informasi.....	12
2.3.1 Definisi Sistem Informasi.....	12
2.3.2 Komponen Sistem Informasi	13
2.3.3 Klasifikasi Sistem Informasi.....	15

2.4 Konsep Dasar Basis Data.....	16
2.4.1 Definisi Basis Data.....	16
2.4.2 Komponen Sistem Basis Data.....	17
2.4.3 Tujuan Basis Data	19
2.5 Definisi Pengendalian.....	20
2.6 Definisi Mutu	21
2.7 Pengendalian Mutu.....	21
2.7.1 Definisi Pengendalian Mutu	21
2.7.2 Tujuan Pengendalian Mutu.....	22
2.7.3 Proses Pengendalian Mutu.....	22
2.8 Definisi Kain	24
2.9 Pengendalian Mutu Kain	25
2.10 Standar Inspeksi <i>4-Point System</i>	26
2.11 <i>Rational Unified Process</i> (RUP)	28
2.12 <i>Unified Modeling Language</i> (UML)	31
2.13 <i>Rich Picture Diagram</i>	36
2.14 Visual Basic .NET	37
2.14.1 Sejarah Visual Basic .NET	37
2.14.2 Keunggulan Visual Basic .NET	38
2.15 PostgreSQL.....	38
BAB III METODE PENELITIAN	40
3.1 <i>Formulating The Research Problem</i>	41
3.2 <i>Extensive Literatur Survey</i>	42
3.3 <i>Development Of Working Hypotheses</i>	42
3.4 <i>Preparing The Research Design</i>	42
3.5 <i>Determining Sample Design</i>	43
3.6 <i>Collecting The Data</i>	44
3.6.1 Observasi	44
3.6.2 Wawancara.....	44
3.7 <i>Execution Of The Project</i>	45
3.7.1 Tahap Permulaan (<i>Inception</i>).....	45
3.7.2 Tahap Perluasan (<i>Elaboration</i>)	46

3.7.3 Tahap Konstruksi (<i>Construction</i>).....	46
3.7.4 Tahap Transisi (<i>Transition</i>)	46
3.8 <i>Analysis Of Data</i>	46
3.9 <i>Hypotheses-Testing</i>	47
3.10 <i>Generalisations And Interpretation</i>	47
3.11 <i>Preparation Of The Report Or The Thesis</i>	47
 BAB IV ANALISIS SISTEM	48
4.1 Profil Perusahaan.....	48
4.2 Pemodelan Proses Bisnis (<i>Business Process Modeling</i>)	52
4.2.1 Pembuatan Standar Inspeksi Kain.....	53
4.2.2 Pembuatan Rencana Inspeksi Kain	54
4.2.3 Pengambilan Kain Untuk Proses Inspeksi.....	55
4.2.4 Proses Inspeksi Kain	56
4.2.5 Pengembalian Kain Selesai Inspeksi.....	58
4.2.6 Pembuatan Laporan Rekap Hasil Inspeksi Kain.....	59
4.3 Identifikasi Kebutuhan (<i>Requirement</i>)	61
4.3.1 Identifikasi Kebutuhan Fungsional	61
4.3.2 Identifikasi Kebutuhan <i>Non Fungsional</i>	61
4.3.3 Identifikasi Kebutuhan Perangkat Keras	62
4.3.4 Identifikasi Kebutuhan Perangkat Lunak Pendukung	62
 BAB V PERANCANGAN SISTEM	63
5.1 <i>Use Case Diagram</i> Sistem Informasi Pengendalian Mutu Kain.....	63
5.1.1 Definisi Aktor	64
5.1.2 Definisi <i>Use Case</i>	64
5.1.3 Skenario <i>Use Case</i>	66
5.2 <i>Activity Diagram</i> Sistem Informasi Pengendalian Mutu Kain	79
5.2.1 <i>Activity Diagram</i> Membuat Standar Inspeksi Kain	79
5.2.2 <i>Activity Diagram</i> Membuat Rencana Inspeksi Kain	80
5.2.3 <i>Activity Diagram</i> Melakukan Pengambilan Kain	81
5.2.4 <i>Activity Diagram</i> Melakukan Konfirmasi Pengambilan Kain.....	82
5.2.5 <i>Activity Diagram</i> Melakukan Inspeksi Kain.....	83
5.2.6 <i>Activity Diagram</i> Melampirkan Foto Cacat Kain	84

5.2.7 <i>Activity Diagram</i> Melakukan Pengembalian Kain.....	85
5.2.8 <i>Activity Diagram</i> Melihat Laporan Rekap Hasil Inspeksi Kain ...	86
5.2.9 <i>Activity Diagram</i> Melihat Laporan Evaluasi <i>Inspector</i>	87
5.2.10 <i>Activity Diagram</i> Melihat Laporan Evaluasi <i>Supplier</i>	88
5.3 <i>Sequence Diagram</i> Sistem Informasi Pengendalian Mutu Kain	89
5.3.1 <i>Sequence Diagram</i> Membuat Standar Inspeksi Kain.....	89
5.3.2 <i>Sequence Diagram</i> Membuat Rencana Inspeksi Kain	90
5.3.3 <i>Sequence Diagram</i> Melakukan Inspeksi Kain	91
5.3.4 <i>Sequence Diagram</i> Melihat Laporan Rekap Hasil Inspeksi Kain .	92
5.3.5 <i>Sequence Diagram</i> Melihat Laporan Evaluasi <i>Inspector</i>	93
5.3.6 <i>Sequence Diagram</i> Melihat Laporan Evaluasi <i>Supplier</i>	93
5.4 <i>Class Diagram</i> Sistem Informasi Pengendalian Mutu Kain.....	94
5.5 <i>Deployment Diagram</i> Sistem Informasi Pengendalian Mutu Kain.....	95
5.6 Perancangan Basis Data.....	95
5.6.1 Struktur Tabel <i>Inspection Standard</i>	95
5.6.2 Struktur Tabel <i>Inspection Plan</i>	96
5.6.3 Struktur Tabel <i>Inspection Plan Item</i>	97
5.6.4 Struktur Tabel <i>Fabric Supply</i>	97
5.6.5 Struktur Tabel <i>Fabric Inspection</i>	98
5.6.6 Struktur Tabel <i>Fabric Roll</i>	98
5.6.7 Struktur Tabel <i>Fabric Roll Defect</i>	99
5.6.8 Struktur Tabel <i>Master User</i>	100
5.6.9 Struktur Tabel <i>Master Buyer</i>	100
5.6.10 Struktur Tabel <i>Master Supplier</i>	100
5.6.11 Struktur Tabel <i>Master Defect</i>	101
5.6.12 Relasi Tabel	102
5.7 Perancangan Antarmuka.....	103
5.7.1 Rancangan <i>Form Login User</i>	103
5.7.2 Rancangan <i>Form Main Menu</i>	103
5.7.3 Rancangan <i>Form Inspection Standard</i>	104
5.7.4 Rancangan <i>Form Inspection Plan</i>	104
5.7.5 Rancangan <i>Form Input Inspection Plan</i>	105

5.7.6 Rancangan Form Input Inspection Plan Item	105
5.7.7 Rancangan Form View Fabric Supply.....	106
5.7.8 Rancangan Form Input Data Fabric Supply	106
5.7.9 Rancangan Form Input Fabric Supply Roll.....	107
5.7.10 Rancangan Form Confirmation Fabric Supply.....	107
5.7.11 Rancangan Form View Fabric Inspection	108
5.7.12 Rancangan Form Input Fabric Inspection.....	108
5.7.13 Rancangan Form Input Fabric Roll Inspection	109
5.7.14 Rancangan Form Attach Photo of Fabric Defect.....	109
5.7.15 Rancangan Form Input Return Fabric Roll.....	110
5.7.16 Rancangan Form Filter Inspection Plan	110
5.7.17 Rancangan Form Filter Inspection Plan Item	111
5.7.18 Rancangan Form Filter Fabric Supply.....	111
5.7.19 Rancangan Form Filter Fabric Roll.....	111
5.7.20 Rancangan Form Review Fabric Supply	112
5.7.21 Rancangan Form Review Fabric Inspection.....	112
5.7.22 Rancangan Form View Fabric Inspection Report.....	113
5.7.23 Rancangan Form View Photo of Fabric Defect.....	113
5.7.24 Rancangan Form View Inspector Evaluation Report.....	114
5.7.25 Rancangan Form View Supplier Evaluation Report	114
 BAB VI IMPLEMENTASI DAN PENGUJIAN SISTEM.....	115
6.1 Implementasi Sistem Informasi Pengendalian Mutu Kain	115
6.1.1 Implementasi Form Login User	115
6.1.2 Implementasi Form Main Menu	116
6.1.3 Implementasi Form Inspection Standard	116
6.1.4 Implementasi Form Inspection Plan	117
6.1.5 Implementasi Form Input Inspection Plan	117
6.1.6 Implementasi Form Input Inspection Plan Item	118
6.1.7 Implementasi Form View Fabric Supply.....	118
6.1.8 Implementasi Form Input Data Fabric Supply.....	119
6.1.9 Implementasi Form Input Fabric Supply Roll	119
6.1.10 Implementasi Form Confirmation Fabric Supply.....	120

6.1.11 Implementasi <i>Form View Fabric Inspection</i>	120
6.1.12 Implementasi <i>Form Input Fabric Inspection</i>	121
6.1.13 Implementasi <i>Form Input Fabric Roll Inspection</i>	121
6.1.14 Implementasi <i>Form Attach Photo of Fabric Defect</i>	122
6.1.15 Implementasi <i>Form Input Return Fabric Roll</i>	122
6.1.16 Implementasi <i>Form Filter Inspection Plan</i>	123
6.1.17 Implementasi <i>Form Filter Inspection Plan Item</i>	123
6.1.18 Implementasi <i>Form Filter Fabric Supply</i>	123
6.1.19 Implementasi <i>Form Filter Fabric Roll</i>	123
6.1.20 Implementasi <i>Form Review Fabric Supply</i>	124
6.1.21 Implementasi <i>Form Review Fabric Inspection</i>	124
6.1.22 Implementasi <i>Form View Fabric Inspection Report</i>	125
6.1.23 Implementasi <i>Form View Photo of Fabric Defect</i>	125
6.1.24 Implementasi <i>Form View Inspector Evaluation Report</i>	126
6.1.25 Implementasi <i>Form View Supplier Evaluation Report</i>	126
6.2 Pengujian Sistem Informasi Pengendalian Mutu Kain.....	127
6.2.1 Identifikasi Tim Penguji	127
6.2.2 Hasil Pengujian	127
BAB VII PENUTUP.....	137
7.1 Kesimpulan	137
7.2 Saran	138
DAFTAR PUSTAKA	139
LAMPIRAN	141