

DAFTAR ISI

LEMBAR PERNYATAAN	i
LEMBAR PERSETUJUAN	ii
LEMBAR PENGESAHAN	iii
KATA PENGANTAR	iv
ABSTRACT	v
ABSTRAK	vi
DAFTAR ISI	vii
DAFTAR GAMBAR	xv
DAFTAR TABEL	xxi
BAB I PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah	3
1.3 Tujuan	3
1.4 Manfaat	4
1.5 Batasan Masalah	4
1.6 Metodologi Penelitian	5
1.6.1 Jenis Penelitian	5
1.6.2 Teknik Pengumpulan Data	5
1.6.3 Metodologi Perancangan Sistem	6
1.6.4 Metodologi Pengujian Sistem	6
1.7 Sistematika Penulisan	7
BAB II LANDASAN TEORI	8
2.1 Konsep Dasar Sistem Informasi	8
2.1.1 Pengertian Sistem	8
2.1.2 Pengertian Informasi	10
2.1.3 Pengertian Sistem Informasi	10
2.2 Konsep Manajemen Proyek	10
2.3 Konsep ISO 9001	11
2.3.1 Pengertian ISO 9001	11
2.3.2 Manfaat ISO 9001	11

2.3.3	Quality Process 06(Software Development).....	12
2.3.4	Quality Process 07(Software Implementation)	12
2.4	Metode Perancangan.....	12
2.4.1	Metode Waterfall	12
2.5	UML (Unified Modelling Language)	14
2.5.1	Use Case Diagram.....	16
2.5.2	Sequence Diagram	18
2.5.3	Activity Diagram.....	21
2.5.4	Class Diagram	23
2.6	Basis Data (<i>Database</i>)	26
2.7	Perangkat Pendukung.....	27
2.7.1	Pemrograman Python	27
2.7.2	Pemrograman CSS	27
2.7.3	Pemrograman HTML	27
2.7.4	Basis Data MariaDB	27
2.8	Metode Pengujian	27
2.8.1	Black Box Testing.....	27
2.9	Literature Review.....	28
	BAB III ANALISA DAN PERANCANGAN SISTEM	32
3.1	Analisa Sistem Berjalan.....	32
3.1.1	Struktur Organisasi.....	32
3.1.2	Wewenang dan Tanggung Jawab.....	32
3.1.3	Flowmaps Diagram	35
3.1.4	Use Case Diagram.....	36
3.1.4.1	Use Case Maintenance project/case.....	37
3.1.4.2	Use Case Assign Team	37
3.1.4.3	Use Case Display Project/Case.....	37
3.1.4.4	Use Case Generate Report	38
3.1.4.5	Use Case Upload Dokumen.....	38
3.1.5	Analisa PIECES	38
3.2	Analisa Sistem Usulan	40
3.2.1	Use Case Diagram.....	40

3.2.2	Use Case Description	41
3.2.2.1	Use Case Login.....	41
3.2.2.2	Use Case Maintenance Department.....	42
3.2.2.3	Use Case Maintenance Divisi	43
3.2.2.1	Use Case Maintenance Employee.....	43
3.2.2.2	Use Case Maintenance Client	44
3.2.2.3	Use Case Maintenance Project	44
3.2.2.4	Use Case Review Dokumen	45
3.2.2.5	Use Case Generate Report	45
3.2.2.6	Use Case Project Kick Off.....	47
3.2.2.7	Use Case Project Closing.....	48
3.2.2.8	Use Case Maintenance System Design.....	50
3.2.2.9	Use Case Maintenance Development Process	51
3.2.3	Activity Diagram.....	52
3.2.3.1	Login	53
3.2.3.2	Maintenance Department.....	53
3.2.3.3	Maintenance Divisi	54
3.2.3.4	Maintenance Employee.....	55
3.2.3.5	Maintenance Client.....	56
3.2.3.6	Maintenance Project	57
3.2.3.7	Review Dokumen	59
3.2.3.8	Generate Report	59
3.2.3.9	Project Kick Off.....	60
3.2.3.10	Project Closing	61
3.2.3.11	Maintenance System Design	62
3.2.3.12	Maintenance Development Process	64
3.2.4	Sequence Diagram	66
3.2.4.1	Login	66
3.2.4.2	Maintenance Department.....	67
3.2.4.3	Maintenance Division	68
3.2.4.4	Maintenance Employee.....	69
3.2.4.5	Maintenance Client	70

3.2.4.6	Maintenance Project	71
3.2.4.7	Review Dokumen	72
3.2.4.8	Generate Report	73
3.2.4.9	Project Kick Off.....	74
3.2.4.10	Project Closing.....	74
3.2.4.11	Maintenance System Design	75
3.2.4.12	Maintenance Development Process	76
3.2.5	Class Diagram	78
3.2.6	Rancangan Basis Data.....	80
3.2.6.1	Entity Relationship Diagram	80
3.2.6.2	Spesifikasi Rancangan Basis Data	80
3.2.6.2.1	Spesifikasi Tabel Job.....	80
3.2.6.2.2	Spesifikasi Tabel City	81
3.2.6.2.3	Spesifikasi Tabel Province	81
3.2.6.2.4	Spesifikasi Tabel Division	81
3.2.6.2.5	Spesifikasi Tabel Department	82
3.2.6.2.6	Spesifikasi Tabel Employee Title.....	83
3.2.6.2.7	Spesifikasi Tabel Sequence	84
3.2.6.2.8	Spesifikasi Tabel Employees	84
3.2.6.2.9	Spesifikasi Tabel Notification.....	86
3.2.6.2.10	Spesifikasi Tabel Team Project.....	86
3.2.6.2.11	Spesifikasi Tabel Client	87
3.2.6.2.12	Spesifikasi Tabel Project.....	88
3.2.6.2.13	Spesifikasi Tabel Task	90
3.2.6.2.14	Spesifikasi Tabel Project Status	90
3.2.6.2.15	Spesifikasi Tabel Document.....	91
3.2.7	Rancangan Layar.....	92
3.2.7.1	Halaman Login	92

3.2.7.2	Halaman Ubah Kata Sandi.....	92
3.2.7.3	Halaman Utama (Dashboard)	93
3.2.7.4	Halaman Department	93
3.2.7.5	Halaman Input Department.....	94
3.2.7.6	Halaman Ubah Department	94
3.2.7.7	Halaman Hapus Department.....	95
3.2.7.8	Halaman Division	95
3.2.7.9	Halaman Input Division.....	96
3.2.7.10	Halaman Ubah Division	96
3.2.7.11	Halaman Hapus Division	97
3.2.7.12	Halaman Employee	97
3.2.7.13	Halaman Input Employee.....	98
3.2.7.14	Halaman Ubah Employee.....	98
3.2.7.15	Halaman Hapus Employee	99
3.2.7.16	Halaman Utama Client	99
3.2.7.17	Halaman Tampilan Detail Client.....	100
3.2.7.18	Halaman Edit Client	100
3.2.7.19	Halaman Hapus Client	101
3.2.7.20	Halaman Utama Menu Proyek	102
3.2.7.21	Halaman Input Proyek.....	103
3.2.7.22	Halaman Tampilan Detail Proyek	104
3.2.7.23	Halaman Edit Proyek	105
3.2.7.24	Halaman Approval Proyek	105
3.2.7.25	Halaman Review Document.....	106
3.2.7.26	Halaman Task List	106
3.2.7.27	Halaman Input Task	107
3.2.7.28	Halaman Edit Task	108
3.2.7.29	Halaman Hapus Task	108
3.2.7.30	Halaman Tampilan Detail Task.....	109
3.2.7.31	Halaman Problem Log	109
3.2.7.32	Halaman Tampilan Detail Problem Log	110
3.2.7.33	Halaman Input Problem Log	110

3.2.7.34	Halaman Ubah Problem Log.....	111
3.2.7.35	Halaman Hapus Problem Log	112
3.2.7.36	Halaman Time Sheet	113
3.2.7.37	Halaman Report Proyek	113
3.2.7.38	Halaman Report Task.....	114
3.2.7.39	Halaman Report Problem Log.....	114
3.2.7.40	Halaman Report Employee	115
3.2.7.41	Halaman Report Client.....	115
	BAB IV IMPLEMENTASI DAN PENGUJIAN SISTEM	116
4.1	Implementasi Sistem.....	116
4.1.1	Pendukung Perangkat Keras	116
4.1.2	Pendukung Perangkat Lunak.....	116
4.2	Implementasi Basis Data.....	116
4.2.1	Implementasi Basis Data Tabel Job	116
4.2.2	Implementasi Basis Data Tabel City.....	117
4.2.3	Implementasi Basis Data Tabel Province	117
4.2.4	Implementasi Basis Data Tabel Division.....	118
4.2.5	Implementasi Basis Data Tabel Department.....	118
4.2.6	Implementasi Basis Data Employee Title	119
4.2.7	Implementasi Basis Data Tabel Sequence	119
4.2.8	Implementasi Basis Data Tabel Employees.....	120
4.2.9	Implementasi Basis Data Tabel Notification	120
4.2.10	Implementasi Basis Data Tabel Team Project.....	121
4.2.11	Implementasi Basis Data Tabel Client	121
4.2.12	Implementasi Basis Data Tabel Project.....	122
4.2.13	Implementasi Basis Data Tabel Task	123
4.2.14	Implementasi Basis Data Tabel Project Status	124
4.2.15	Implementasi Basis Data Tabel Document	124
4.2.16	Implementasi Basis Data Foreign Key	125
4.3	Implementasi Tampilan Layar Aplikasi.....	125
4.3.1	Halaman Login User	125
4.3.2	Halaman Dashboard.....	126

4.3.3	Halaman Notifikasi	126
4.3.4	Halaman Menu User	127
4.3.5	Halaman Ubah Kata Sandi	127
4.3.6	Halaman Menu Employee.....	128
4.3.7	Halaman Utama Departemen	128
4.3.8	Halaman Input Departement	129
4.3.9	Halaman Ubah Departement	129
4.3.10	Halaman Hapus Departement.....	130
4.3.11	Halaman Konfirmasi Hapus Departement.....	130
4.3.12	Halaman Utama Divisi	131
4.3.13	Halaman Input Divisi	131
4.3.14	Halaman Ubah Divisi	132
4.3.15	Halaman Hapus Divisi.....	132
4.3.16	Halaman Utama Employee.....	133
4.3.17	Halaman Input Employee	133
4.3.18	Halaman Ubah Employee.....	134
4.3.19	Halaman Hapus Employee	134
4.3.20	Halaman Utama Client	135
4.3.21	Halaman Input Client	135
4.3.22	Halaman Ubah Client	136
4.3.23	Halaman Hapus Client.....	136
4.3.24	Halaman Menu Projects	137
4.3.25	Halaman Project List	137
4.3.26	Halaman Input Project.....	138
4.3.27	Halaman Ubah Project.....	138
4.3.28	Halaman Hapus Project	139
4.3.29	Halaman Project Approval	139
4.3.30	Halaman Project Review Document	140
4.3.31	Halaman Task.....	140
4.3.32	Halaman Input Task	141
4.3.33	Halaman Ubah Task	141
4.3.34	Halaman Hapus Task.....	142

4.3.35	Halaman Problem Log List	142
4.3.36	Halaman Input Problem Log List.....	143
4.3.37	Halaman Ubah Problem Log List.....	143
4.3.38	Halaman Hapus Problem Log List	144
4.3.39	Halaman Time Sheet	145
4.3.40	Halaman Utama Report.....	146
4.3.41	Halaman Report Project	146
4.3.42	Halaman Report Task	147
4.3.43	Halaman Report Problem	147
4.3.44	Halaman Report Employee.....	148
4.3.45	Halaman Report Client.....	148
4.4	Pengujian Aplikasi	148
BAB V KESIMPULAN DAN SARAN.....		172
5.1	Kesimpulan	172
5.2	Saran	172
DAFTAR PUSTAKA		173

