

Universitas
Esia Unggul

DAFTAR ISI

HALAMAN JUDUL	i
HALAMAN JUDUL DALAM	ii
LEMBAR PENGESAHAN TUGAS AKHIR	iii
LEMBAR PENGESAHAN PENGUJI SIDANG	iv
LEMBAR PERNYATAAN KEASLIAN	v
KATA PENGANTAR	vi
ABSTRAK	viii
DAFTAR ISI	ix
DAFTAR GAMBAR	xiv
DAFTAR TABEL	xvi
BAB 1 PENDAHULUAN	1
1.1 Latar Belakang.....	1
1.2 Identifikasi Masalah	2
1.3 Tujuan Penelitian.....	2
1.4 Batasan Masalah	3
1.5 Manfaat Penelitian.....	3
1.6 Metodologi Penelitian.....	3
1.7 Sistematika Penulisan	4
BAB II LANDASAN TEORI	6
2.1 Definisi Aplikasi.....	6
2.2 Mading.....	6
2.2.1 Manajemen Organisasi	7
2.2.2 Manajemen Redaksional.....	7
2.3 E-mading.....	8

2.4	Definisi Sistem Informasi	8
2.4.1	Sistem	8
2.4.2	Informasi	9
2.4.3	Sistem Informasi	9
2.5	Website	10
2.6	Kreativitas	10
2.7	<i>Progressive Web Apps</i>	10
2.8	BPMN (Business Process Model and Natation)	12
2.9	<i>Tools</i> Pengembang Sistem.....	14
2.9.1	XAMPP	14
2.9.2	PHP (<i>Hypertext Preprocessor</i>)	15
2.9.3	MySQL.....	15
2.10	Multimedia	16
2.10.1	Komponen Multimedia	17
2.10.2	Multimedia Berbasis Komputer	20
2.10.3	Multimedia Sebagai Media Pembelajaran.....	20
2.11	Grafis	21
2.11.1	Grafis Vektor (<i>Draw Software</i>)	21
2.11.2	Grafis Bitmap (<i>Paint Software</i>)	22
2.11.3	Perbandingan antara Grafis Vektor dan Grafis Bitmap.....	23
2.11.4	Atribut pada Citra Grafis	23
2.12	Proses Bisnis.....	24
2.13	Media Pengembang <i>Software</i>	25
2.13.1	<i>Unified Modelling Language</i> (UML).....	26
1.	<i>Usecase Diagram</i>	27
2.	<i>Activity Diagram</i>	28
3.	<i>Class Diagram</i>	29
4.	<i>Sequence Diagram</i>	30
5.	<i>Deployment Diagram</i>	31

6.	<i>Component Diagram</i>	31
2.14	Ilustrasi Proses PIECES.....	31
1.	<i>Performance</i>	31
2.	<i>Information</i>	32
3.	<i>Economy</i>	32
4.	<i>Control</i>	33
5.	<i>Efficiency</i>	33
6.	<i>Service</i>	34
2.15	<i>eXtream Programming (XP)</i>	33
BAB III GAMBARAN UMUM		35
3.1	Gambaran Umum Sekolah.....	35
3.2	Proses Bisnis.....	35
3.2.1	Proses Pengolahan Informasi.....	35
3.2.2	Proses Pengolahan Artikel.....	39
3.2.3	Proses Pengolahan Kegiatan.....	40
3.3	Analisis Masalah.....	42
3.3.1	Analisis PIECES.....	42
A.	Analisis Kinerja (<i>Performance</i>).....	42
B.	Analisis Informasi (<i>Information</i>).....	43
C.	Analisis Ekonomi (<i>Economy</i>).....	44
D.	Analisis Kontrol (<i>Control</i>).....	44
E.	Analisis Efisiensi (<i>Efficiency</i>).....	45
F.	Analisis Layanan (<i>Service</i>).....	45
3.3.2	Analisis Kebutuhan.....	46
3.2.1.1	<i>Functional Requerement</i>	46
3.2.1.2	<i>Non-Functional Requirement</i>	47
3.4	Kerangka Pemikiran.....	48

BAB IV HASIL DAN PEMBAHASAN	51
4.1 Rencana Solusi Pemecah Masalah.....	51
4.1.1 Analisis Kebutuhan Sistem.....	51
4.2 Diagram <i>Unified Modelling Language</i>	52
4.2.1 <i>Usecase Diagram</i>	52
4.2.2 <i>Activity Diagram</i>	54
4.2.3 <i>Class Diagram</i>	58
4.2.4 <i>Deployment Diagram</i>	60
4.2.5 <i>Component Diagram</i>	61
4.2.6 <i>Sequence Diagram</i>	62
4.2.6.1 <i>Sequence Diagram Login</i>	62
4.2.6.2 <i>Sequence Diagram Registrasi</i>	63
4.2.6.3 <i>Sequence Diagram Posting Siswa</i>	64
4.2.6.4 <i>Sequence Diagram Posting Guru</i>	65
4.3 <i>Coding</i>	66
4.4 Implementasi	66
4.4.1 <i>Tampilan Login</i>	66
4.4.2 <i>Menu Admin</i>	67
4.4.3.1 <i>Tampilan Menu Admin</i>	67
4.4.2.1.1 <i>Tampilan Menu Master Data</i>	68
4.4.2.1.2 <i>Tampilan User Data</i>	69
4.4.2.1.3 <i>Tampilan Otorisasi</i>	70
4.4.2.1.4 <i>Tampilan Data Siswa</i>	71
4.4.2.1.5 <i>Tampilan Guru</i>	72
4.4.2.1.6 <i>Tampilan Kelas</i>	74
4.4.2.1.7 <i>Tampilan Profil</i>	75
4.4.3 <i>Menu Guru</i>	74
4.4.3.1 <i>Tampilan Menu Guru</i>	74

4.4.3.2	Tampilan <i>Approve</i> Artikel	75
4.4.3.3	Tampilan <i>Create & Approve</i> Kegiatan.....	76
4.4.4	Menu Siswa / Siswi	77
4.4.4.1	Tampilan Menu Siswa / Siswi	77
4.4.4.2	Tampilan <i>Create</i> Artikel	78
4.4.4.3	Tampilan <i>Create</i> Kegiatan	79
BAB V PENUTUP	80
5.1	Kesimpulan.....	80
5.2	Saran.....	80
DAFTAR PUSTAKA	81

DAFTAR GAMBAR

Gambar 2.1 Tahapan eXtreme Programming	34
Gambar 3.1 <i>BPMN</i> Proses Pengolahan Informasi	38
Gambar 3.2 <i>BPMN</i> Pengolahan Artikel.....	40
Gambar 3.3 <i>BPMN</i> Pengolahan Kegiatan.....	42
Gambar 3.4 Kerangka Pemikiran	49
Gambar 4.1 <i>Use Case Diagram</i> Sistem	54
Gambar 4.2 <i>Activity Diagram Login</i>	56
Gambar 4.3 <i>Activity Diagram Posting</i>	57
Gambar 4.4 <i>Activity Diagram Registrasi Akun</i>	58
Gambar 4.5 <i>Class Diagram</i>	60
Gambar 4.6 <i>Deployment Diagram</i>	61
Gambar 4.7 <i>Component Diagram</i>	62
Gambar 4.8 <i>Sequence Diagram Login</i>	63
Gambar 4.9 <i>Sequence Diagram Registrasi</i>	64
Gambar 4.10 <i>Sequence Diagram Posting Murid</i>	65
Gambar 4.11 <i>Sequence Diagram Posting Guru</i>	66
Gambar 4.12 Tampilan <i>Login Website</i>	67
Gambar 4.13 Tampilan <i>Login Progressive Web Apps</i>	68
Gambar 4.14 Tampilan <i>Website Menu Admin</i>	68
Gambar 4.15 Tampilan <i>Progressive Web Apps Menu Admin</i>	69
Gambar 4.16 Tampilan <i>Menu Master Data</i>	69
Gambar 4.17 Tampilan <i>Website User Data</i>	70

Gambar 4.18 Tampilan <i>Progressive Web Apps</i> User Data.....	70
Gambar 4.19 Tampilan <i>Website</i> Otorisasi	71
Gambar 4.20 Tampilan <i>Progressive Web Apps</i> Otorisasi	71
Gambar 4.21 Tampilan <i>Website</i> Siswa	72
Gambar 4.22 Tampilan <i>Progressive Web Apps</i> Siswa	72
Gambar 4.23 Tampilan <i>Website</i> Guru	73
Gambar 4.24 Tampilan <i>Progressive Web Apps</i> Guru.....	73
Gambar 4.25 Tampilan <i>Website</i> Kelas	73
Gambar 4.26 Tampilan <i>Progressive Web Apps</i> Kelas.....	74
Gambar 4.27 Tampilan <i>Website</i> Profil	74
Gambar 4.28 Tampilan <i>Progressive Web Apps</i> Profil.....	75
Gambar 4.29 Tampilan <i>Website</i> Menu Guru	75
Gambar 4.30 Tampilan <i>Progressive Web Apps</i> Menu Guru	75
Gambar 4.31 Tampilan <i>Website Approve</i> Artikel.....	76
Gambar 4.32 Tampilan <i>Progressive Web Apps Approve</i> Artikel	76
Gambar 4.33 Tampilan <i>Website Create</i> Kegiatan	77
Gambar 4.34 Tampilan <i>Website Approve</i> Kegiatan.....	77
Gambar 4.35 Tampilan <i>Progressive Web Apps Approve</i> Kegiatan	77
Gambar 4.36 Tampilan <i>Website</i> Menu Siswa / Siswi.....	78
Gambar 4.37 Tampilan <i>Progressive Web Apps</i> Menu Siswa / Siswi	78
Gambar 4.38 Tampilan <i>Website Create</i> Artikel	79
Gambar 4.39 Tampilan <i>Progressive Web Apps Create</i> Artikel.....	79
Gambar 4.40 Tampilan <i>Website Create</i> Kegiatan	80
Gambar 4.41 Tampilan <i>Progressive Web Apps Create</i> Kegiatan.....	80

DAFTAR TABEL

Tabel 2.1 Perbandingan Grafis Vektor dan Grafis Bitmap	23
Tabel 2.2 Perbandingan Beberapa Tipe File (Grafis) Bitmap.....	24
Tabel 2.3 <i>Use Case Diagram</i>	27
Tabel 2.4 <i>Activity Diagram</i>	29
Tabel 2.5 <i>Class Diagram</i>	30
Tabel 3.1 Analisis Kinerja (<i>Performance</i>).....	43
Tabel 3.2 Analisis Informasi (<i>Information</i>).....	44
Tabel 3.3 Analisis Ekonomi (<i>Economy</i>).....	45
Tabel 3.4 Analisis Kontrol (<i>Control</i>).....	45
Tabel 3.5 Analisis Efisien (<i>Efficiency</i>)	46
Tabel 3.6 Analisis Layanan (<i>Service</i>).....	46
Tabel 3.7 Kebutuhan Fungsional.....	47
Tabel 4.1 Analisis Kebutuhan Sistem.....	52