

**PEMBUATAN SISTEM INFORMASI PEMBELAJARAN DAN
ABSENSI BERBASIS ONLINE UNTUK SISWA SMP NEGERI 1
MOJOLABAN**

Tugas Akhir

Disusun untuk memenuhi sebagian persyaratan memperoleh gelar Ahli Madya
pada Program Studi Diploma III Teknik Informatika Universitas Sebelas Maret



Disusun oleh :

HANIF INDRA PERMANA

M3117046

**PROGRAM STUDI DIPLOMA III TEKNIK INFORMATIKA
SEKOLAH VOKASI
UNIVERSITAS SEBELAS MARET**

2022

DAFTAR ISI

HALAMAN PERSETUJUAN	Error! Bookmark not defined.
HALAMAN PENGESAHAN.....	Error! Bookmark not defined.
PERNYATAAN KEASLIAN KARYA TUGAS AKHIR...Error!	Bookmark not defined.
PERNYATAAN PERSETUJUAN PUBLIKASI UNTUK KEPENTINGAN AKADEMIS.....	Error! Bookmark not defined.
HALAMAN PERSEMBAHAN	Error! Bookmark not defined.
KATA PENGANTAR.....	Error! Bookmark not defined.
INTISARI	Error! Bookmark not defined.
ABSTRACT.....	Error! Bookmark not defined.
DAFTAR ISI.....	ii
DAFTAR TABEL	vii
DAFTAR GAMBAR.....	viii
BAB I PENDAHULUAN.....	Error! Bookmark not defined.
1.1 Latar Belakang.....	Error! Bookmark not defined.
1.2 Tujuan.....	Error! Bookmark not defined.
1.3 Manfaat Produk	Error! Bookmark not defined.
1.4 Metode Pengembangan.....	Error! Bookmark not defined.
1.5 Definisi dan Istilah.....	Error! Bookmark not defined.
1.6 Referensi.....	Error! Bookmark not defined.
BAB II DESKRIPSI PRODUK	Error! Bookmark not defined.
2.1 Deskripsi Produk	Error! Bookmark not defined.
2.2 Fungsional Produk.....	Error! Bookmark not defined.
2.3 Proses Bisnis	Error! Bookmark not defined.

2.4	Penggolongan dan Karakteristik Pengguna.....	Error! Bookmark not defined.
2.5	Lingkungan Operasi	Error! Bookmark not defined.
2.6	Batasan Desain dan Implementasi.....	Error! Bookmark not defined.
2.7	Dokumentasi Pengguna.....	Error! Bookmark not defined.
BAB III PERANCANGAN PRODUK		Error! Bookmark not defined.
3.1	Desain Interface.....	Error! Bookmark not defined.
3.1.1	Desain dashboard	Error! Bookmark not defined.
3.1.2	Desain Tampilan <i>CRUD</i>	Error! Bookmark not defined.
3.1.3	Desain Tampilan <i>CRUD Create</i>	Error! Bookmark not defined.
3.1.4	Desain Tampilan <i>CRUD Success</i>	Error! Bookmark not defined.
3.1.5	Desain Tampilan <i>CRUD Failed</i>	Error! Bookmark not defined.
3.1.6	Desain Tampilan <i>CRUD Delete</i>	Error! Bookmark not defined.
3.1.7	Desain Tampilan <i>CRUD Update</i>	Error! Bookmark not defined.
3.1.8	Desain Tampilan <i>Create</i>	Error! Bookmark not defined.
3.1.9	Desain Page Detail Kelas.....	Error! Bookmark not defined.
3.1.10	Desain Page Detail.....	Error! Bookmark not defined.
3.2	Desain Database	Error! Bookmark not defined.
3.2.1	Desain ERD	Error! Bookmark not defined.
3.2.2	Tabel Fisik	Error! Bookmark not defined.
3.3	<i>Use Case Diagram</i>	Error! Bookmark not defined.
3.4	<i>Activity Diagram</i>	Error! Bookmark not defined.
3.4.1	<i>Activity Diagram</i> Managemen Siswa.....	Error! Bookmark not defined.

- 3.4.2 *Activity Diagram* Managemen Guru **Error! Bookmark not defined.**
- 3.4.3 *Activity Diagram* Menampilkan Data Kelas **Error! Bookmark not defined.**
- 3.4.4 *Activity Diagram* Menampilkan Data Siswa Dalam Kelas **Error! Bookmark not defined.**
- 3.4.5 *Activity Diagram* Menampilkan Data Absensi .. **Error! Bookmark not defined.**
- 3.4.6 *Activity Diagram* Menampilkan Data Izin Absensi **Error! Bookmark not defined.**
- 3.4.7 *Activity Diagram* Menampilkan Data Tugas **Error! Bookmark not defined.**
- 3.4.8 *Activity Diagram* Menampilkan Data Jawaban . **Error! Bookmark not defined.**
- 3.4.9 *Activity Diagram* Menampilkan Data Materi **Error! Bookmark not defined.**
- 3.4.10 *Activity Diagram* Managemen Data Kelas **Error! Bookmark not defined.**
- 3.4.11 *Activity Diagram* Menambahkan Siswa Pada Kelas **Error! Bookmark not defined.**
- 3.4.12 *Activity Diagram* Menambahkan Absensi **Error! Bookmark not defined.**
- 3.4.13 *Activity Diagram* Menambahkan Siswa Untuk Absensi Pada Absensi **Error! Bookmark not defined.**
- 3.4.14 *Activity Diagram* Membatalkan Absensi Siswa **Error! Bookmark not defined.**
- 3.4.15 *Activity Diagram* Menambahkan Izin Absensi .. **Error! Bookmark not defined.**
- 3.4.16 *Activity Diagram* Managemen Tugas **Error! Bookmark not defined.**
- 3.4.17 *Activity Diagram* Menampilkan Data Jawaban . **Error! Bookmark not defined.**
- 3.4.18 *Activity Diagram* Managemen Materi **Error! Bookmark not defined.**
- 3.4.19 *Activity Diagram* Siswa Mengikuti Kelas..... **Error! Bookmark not defined.**

3.4.20 *Activity Diagram* Siswa Mengikuti Absensi..... **Error! Bookmark not defined.**

3.4.21 *Activity Diagram* Siswa Menambahkan Jawaban**Error! Bookmark not defined.**

3.4.22 *Activity Diagram* Siswa Dapat Mengunduh Materi**Error! Bookmark not defined.**

BAB IV IMPLEMENTASIError! Bookmark not defined.

4.1 Implementasi Halaman *Login* **Error! Bookmark not defined.**

4.2 Implementasi Admin Manajemen Guru **Error! Bookmark not defined.**

4.3 Implementasi Admin Manajemen Siswa..... **Error! Bookmark not defined.**

4.4 Implementasi Guru Manajemen Kelas **Error! Bookmark not defined.**

4.5 Implementasi Guru Detail Kelas **Error! Bookmark not defined.**

4.6 Implementasi Guru *Invite* Siswa **Error! Bookmark not defined.**

4.7 Impelemntasi Guru *Create* Absensi **Error! Bookmark not defined.**

4.8 Implementasi Guru *Create* Tugas **Error! Bookmark not defined.**

4.9 Implementasi Guru *Create* Materi **Error! Bookmark not defined.**

4.10 Implementasi Guru Absensi Berhasil..... **Error! Bookmark not defined.**

4.11 Implementasi Guru Membatalkan Absensi **Error! Bookmark not defined.**

4.12 Implementasi Guru Menambahkan Izin **Error! Bookmark not defined.**

4.13 Implementasi Siswa Absensi..... **Error! Bookmark not defined.**

4.14 Implementasi Siswa Menambahkan Jawaban **Error! Bookmark not defined.**

BAB V PENGUJIAN, HASIL DAN KESIMPULANError! Bookmark not defined.

5.1 Metode Pengujian..... **Error! Bookmark not defined.**

5.2	Lingkungan Pengujian.....	Error! Bookmark not defined.
5.2.1	Perangkat Keras	Error! Bookmark not defined.
5.2.2	Perangkat Lunak	Error! Bookmark not defined.
5.3	Prosedur Sistem.....	Error! Bookmark not defined.
5.4	Prosedur Sistem.....	Error! Bookmark not defined.
5.4.1	Hasil Pengujian Login.....	Error! Bookmark not defined.
5.4.2	Hasil Pengujian Manajemen Data Guru	Error! Bookmark not defined.
5.4.3	Hasil Pengujian Penambahan Data Siswa.....	Error! Bookmark not defined.
5.4.4	Hasil Pengujian Penambahan Data Kelas	Error! Bookmark not defined.
5.4.5	Hasil Pengujian Detail Kelas	Error! Bookmark not defined.
5.4.6	Hasil Pengujian Penambahan Data Siswa Pada Kelas	Error! Bookmark not defined.
5.4.7	Hasil Pengujian Penambahan Data Absensi	Error! Bookmark not defined.
5.4.8	Hasil Pengujian Penambahan Data Tugas	Error! Bookmark not defined.
5.4.9	Hasil Pengujian Penambahan Data Materi	Error! Bookmark not defined.
5.4.10	Hasil Pengujian Penambahan Absensi Siswa	Error! Bookmark not defined.
5.4.11	Hasil Pengujian Pembatalan Absensi Siswa	Error! Bookmark not defined.
5.4.12	Hasil Pengujian Penambahan Data Izin Siswa ..	Error! Bookmark not defined.
5.4.13	Hasil Pengujian Penambahan Siswa Absensi	Error! Bookmark not defined.
5.4.14	Hasil Pengujian Penambahan Data Jawaban	Error! Bookmark not defined.
5.5	Kesimpulan.....	Error! Bookmark not defined.
	Daftar Pustaka	Error! Bookmark not defined.

DAFTAR TABEL

Tabel 2. 1 Kebutuhan <i>Fungsional</i> Sistem.....	Error! Bookmark not defined.
Tabel 2. 2 Kebutuhan <i>Non Fungsional</i> Sistem	Error! Bookmark not defined.
Tabel 2. 3 Penggolongan dan Karakteristik Pengguna	Error! Bookmark not defined.
Tabel 3. 1 Desain Fisik Tabel User.....	Error! Bookmark not defined.
Tabel 3. 2 Tabel Siswa.....	Error! Bookmark not defined.
Tabel 3. 3 Tabel Guru	Error! Bookmark not defined.
Tabel 3. 4 Tabel Kelas	Error! Bookmark not defined.
Tabel 3. 5 Tabel Detail Kelas	Error! Bookmark not defined.
Tabel 3. 6 Tabel Absensi	Error! Bookmark not defined.
Tabel 3. 7 Tabel Detail Absensi.....	Error! Bookmark not defined.
Tabel 3. 8 Tabel Izin	Error! Bookmark not defined.
Tabel 3. 9 Tabel Tugas.....	Error! Bookmark not defined.
Tabel 3. 10 Tabel Jawaban.....	Error! Bookmark not defined.
Tabel 3. 11 Tabel Materi.....	Error! Bookmark not defined.

DAFTAR GAMBAR

Gambar 2.1 Proses Bisnis Kelas	Error! Bookmark not defined.
Gambar 2.2 Proses Bisnis Absensi	Error! Bookmark not defined.
Gambar 2.3 Proses Bisnis Tugas	Error! Bookmark not defined.
Gambar 3.1 Desain dashboard	Error! Bookmark not defined.
Gambar 3.2 Desain Tampilan CRUD	Error! Bookmark not defined.
Gambar 3.3 Desain Tampilan <i>CRUD Create</i>	Error! Bookmark not defined.
Gambar 3.4 Desain Tampilan <i>CRUD Success</i>	Error! Bookmark not defined.
Gambar 3.5 Desain Tampilan <i>CRUD Failed</i>	Error! Bookmark not defined.
Gambar 3.6 Desain Tampilan <i>CRUD Delete</i>	Error! Bookmark not defined.
Gambar 3.7 Desain Tampilan <i>CRUD Update</i>	Error! Bookmark not defined.
Gambar 3.8 Desain Tampilan Create	Error! Bookmark not defined.
Gambar 3.9 Desain Page Detail Kelas	Error! Bookmark not defined.
Gambar 3.10 Desain Page Detail	Error! Bookmark not defined.
Gambar 3.11 <i>Entity Relationship Diagram (ERD)</i>	Error! Bookmark not defined.
Gambar 3.12 Gambar <i>Use Case Diagram</i>	Error! Bookmark not defined.
Gambar 3.13 Activity Diagram Managemen Siswa	Error! Bookmark not defined.
Gambar 3.14 Activity Diagram Managemen Guru	Error! Bookmark not defined.
Gambar 3.15 <i>Activity Diagram</i> Menampilkan Data Kelas	Error! Bookmark not defined.
Gambar 3.16 <i>Activity Diagram</i> Menampilkan Data Siswa Dalam Kelas	Error! Bookmark not defined.
Gambar 3.17 <i>Activity Diagram</i> Menampilkan Data Absensi ..	Error! Bookmark not defined.
Gambar 3.18 <i>Activity Diagram</i> Menampilkan Data Izin Absensi ..	Error! Bookmark not defined.
Gambar 3.19 <i>Activity Diagram</i> Menampilkan Data Tugas	Error! Bookmark not defined.
Gambar 3.20 <i>Activity Diagram</i> Menampilkan Data Jawaban ..	Error! Bookmark not defined.
Gambar 3.21 <i>Activity Diagram</i> Menampilkan Data Materi	Error! Bookmark not defined.
Gambar 3.22 <i>Activity Diagram</i> Managemen Data Kelas	Error! Bookmark not defined.
Gambar 3.23 <i>Activity Diagram</i> Menambahkan Siswa Pada Kelas ..	Error! Bookmark not defined.
Gambar 3.24 <i>Activity Diagram</i> Menambahkan Absensi	Error! Bookmark not defined.
Gambar 3.25 <i>Activity Diagram</i> Menambahkan Siswa Untuk Absensi ..	Error! Bookmark not defined.

- Gambar 3.26 *Activity Diagram* Membatalkan Absensi Siswa. **Error! Bookmark not defined.**
- Gambar 3.27 *Activity Diagram* Menambahkan Izin Absensi .. **Error! Bookmark not defined.**
- Gambar 3.28 *Activity Diagram* Manajemen Tugas **Error! Bookmark not defined.**
- Gambar 3.29 *Activity Diagram* Menampilkan Data Jawaban . **Error! Bookmark not defined.**
- Gambar 3.30 *Activity Diagram* Manajemen Materi..... **Error! Bookmark not defined.**
- Gambar 3.31 *Activity Diagram* Siswa Mengikuti Kelas..... **Error! Bookmark not defined.**
- Gambar 3.32 *Activity Diagram* Siswa Mengikuti Absensi **Error! Bookmark not defined.**
- Gambar 3.33 *Activity Diagram* Siswa Menambahkan Jawaban **Error! Bookmark not defined.**
- Gambar 3.34 *Activity Diagram* Siswa Dapat Mengunduh Materi **Error! Bookmark not defined.**
- Gambar 4. 1 Implementasi Halaman Login **Error! Bookmark not defined.**
- Gambar 4. 2 Implementasi Sourcode Halaman Login **Error! Bookmark not defined.**
- Gambar 4. 3 Implementasi List Guru **Error! Bookmark not defined.**
- Gambar 4. 4 Sourcode Implementasi List Guru **Error! Bookmark not defined.**
- Gambar 4. 5 Implementasi Form *Create* Guru **Error! Bookmark not defined.**
- Gambar 4. 6 Sourcode Implementasi Form *Create* Guru **Error! Bookmark not defined.**
- Gambar 4. 7 Implementasi Form *Update* Guru **Error! Bookmark not defined.**
- Gambar 4. 8 Sourcode Implementasi Form *Update* Guru **Error! Bookmark not defined.**
- Gambar 4. 9 Implementasi List Siswa **Error! Bookmark not defined.**
- Gambar 4. 10 Sourcode Implementasi List Siswa **Error! Bookmark not defined.**
- Gambar 4. 11 Implementasi Form *Create* Siswa..... **Error! Bookmark not defined.**
- Gambar 4. 12 Sourcode Implementasi Form *Create* Siswa..... **Error! Bookmark not defined.**
- Gambar 4. 13 Implementasi Form *Update* Siswa..... **Error! Bookmark not defined.**
- Gambar 4. 14 Sourcode Implementasi Form *Update* Siswa.... **Error! Bookmark not defined.**
- Gambar 4. 15 Implementasi List Kelas..... **Error! Bookmark not defined.**
- Gambar 4. 16 Sourcode Implementasi List Kelas **Error! Bookmark not defined.**
- Gambar 4. 17 Implementasi Form *Create* Kelas **Error! Bookmark not defined.**
- Gambar 4. 18 Sourcode Implementasi Form *Create* Kelas **Error! Bookmark not defined.**
- Gambar 4. 19 Implementasi Detail Kelas **Error! Bookmark not defined.**
- Gambar 4. 20 Sourcode Implementasi Detail Kelas **Error! Bookmark not defined.**
- Gambar 4. 21 Implementasi List Siswa **Error! Bookmark not defined.**
- Gambar 4. 22 Sourcode Implementasi List Siswa **Error! Bookmark not defined.**
- Gambar 4. 23 Implementasi List Absensi..... **Error! Bookmark not defined.**

- Gambar 4. 24 Sourcode Implementasi List Absensi..... **Error! Bookmark not defined.**
- Gambar 4. 25 Implementasi List Tugas **Error! Bookmark not defined.**
- Gambar 4. 26 Sourcode Implementasi List Tugas **Error! Bookmark not defined.**
- Gambar 4. 27 Implementasi List Materi **Error! Bookmark not defined.**
- Gambar 4. 28 Sourcode Implementasi List Materi **Error! Bookmark not defined.**
- Gambar 4. 29 Implementasi Guru *Invite* Siswa **Error! Bookmark not defined.**
- Gambar 4. 30 Sourcode Implementasi Guru *Invite* Siswa **Error! Bookmark not defined.**
- Gambar 4. 31 Impelemntasi Guru *Create* Absensi **Error! Bookmark not defined.**
- Gambar 4. 32 Sourcode Impelemntasi Guru *Create* Absensi.. **Error! Bookmark not defined.**
- Gambar 4. 33 Impelemntasi Guru *Create* Tugas **Error! Bookmark not defined.**
- Gambar 4. 34 Sourcode Impelemntasi Guru *Create* Tugas **Error! Bookmark not defined.**
- Gambar 4. 35 Implementasi Guru Create Materi..... **Error! Bookmark not defined.**
- Gambar 4. 36 Sourcode Implementasi Guru Create Materi **Error! Bookmark not defined.**
- Gambar 4. 37 Implementasi Guru Absensi Berhasil **Error! Bookmark not defined.**
- Gambar 4. 38 Sourcode Implementasi Guru Absensi Berhasil **Error! Bookmark not defined.**
- Gambar 4. 39 Implementasi Guru Membatalkan Absensi **Error! Bookmark not defined.**
- Gambar 4. 40 Sourcode Implementasi Guru Membatalkan Absensi **Error! Bookmark not defined.**
- Gambar 4. 41 Implementasi Guru Menambahkan Izin..... **Error! Bookmark not defined.**
- Gambar 4. 42 Sourcode Implementasi Guru Menambahkan Izin **Error! Bookmark not defined.**
- Gambar 4. 43 Implementasi Siswa Absensi **Error! Bookmark not defined.**
- Gambar 4. 44 Sourcode Implementasi Siswa Absensi **Error! Bookmark not defined.**
- Gambar 4. 45 Implementasi Siswa Menambahkan Jawaban... **Error! Bookmark not defined.**
- Gambar 4. 46 Sourcode Implementasi Siswa Menambahkan Jawaban **Error! Bookmark not defined.**

