

Daftar Isi

ABSTRAK	ERROR! BOOKMARK NOT DEFINED.
ABSTRACT	ERROR! BOOKMARK NOT DEFINED.
LEMBAR PERSEMBAHAN	ERROR! BOOKMARK NOT DEFINED.
KATA PENGANTAR	ERROR! BOOKMARK NOT DEFINED.
DAFTAR ISI	1
DAFTAR GAMBAR	ERROR! BOOKMARK NOT DEFINED.
DAFTAR TABEL	ERROR! BOOKMARK NOT DEFINED.
1. PENDAHULUAN	ERROR! BOOKMARK NOT DEFINED.
1.1. LATAR BELAKANG	ERROR! BOOKMARK NOT DEFINED.
1.2. RUMUSAN MASALAH	ERROR! BOOKMARK NOT DEFINED.
1.3. BATASAN MASALAH	ERROR! BOOKMARK NOT DEFINED.
1.4. TUJUAN.....	ERROR! BOOKMARK NOT DEFINED.
1.5. METODOLOGI PENYELESAIAN MASALAH	ERROR! BOOKMARK NOT DEFINED.
1.5.1. <i>Studi Literatur</i>	<i>Error! Bookmark not defined.</i>
1.5.2. <i>Analisis dan Persiapan Data</i>	<i>Error! Bookmark not defined.</i>
1.5.3. <i>Perancangan Sistem dan Implementasi</i>	<i>Error! Bookmark not defined.</i>
1.5.4. <i>Pengujian Aplikasi</i>	<i>Error! Bookmark not defined.</i>
1.5.5. <i>Penerapan Aplikasi</i>	<i>Error! Bookmark not defined.</i>
1.6. PEMBAGIAN TUGAS ANGGOTA	ERROR! BOOKMARK NOT DEFINED.
2. TINJAUAN PUSTAKA	ERROR! BOOKMARK NOT DEFINED.
2.1. VOKAL	ERROR! BOOKMARK NOT DEFINED.
2.1.1. <i>Unsur-unsur Teknik Vokal</i>	<i>Error! Bookmark not defined.</i>
2.1.2. <i>Jenis Suara Vokal</i>	<i>Error! Bookmark not defined.</i>
2.2. FREKUENSI AUDIO	ERROR! BOOKMARK NOT DEFINED.
2.2.1. <i>Frekuensi Infrasonik</i>	<i>Error! Bookmark not defined.</i>
2.2.2. <i>Frekuensi Audiosonik</i>	<i>Error! Bookmark not defined.</i>
2.2.3. <i>Frekuensi Ultrasonik</i>	<i>Error! Bookmark not defined.</i>
2.3. MIKROFON	ERROR! BOOKMARK NOT DEFINED.
2.4. IOT	ERROR! BOOKMARK NOT DEFINED.
2.5. RANGKAIAN PERANGKAT LUNAK	ERROR! BOOKMARK NOT DEFINED.
2.5.1. <i>Flow chart</i>	<i>Error! Bookmark not defined.</i>
2.5.2. <i>Use Case</i>	<i>Error! Bookmark not defined.</i>
2.5.3. <i>Class Diagram</i>	<i>Error! Bookmark not defined.</i>
2.5.4. <i>Sequence Diagram</i>	<i>Error! Bookmark not defined.</i>
2.5.5. <i>Activity Diagram</i>	<i>Error! Bookmark not defined.</i>
2.5.6. <i>Component Diagram</i>	<i>Error! Bookmark not defined.</i>
2.5.7. <i>Deployment Diagram</i>	<i>Error! Bookmark not defined.</i>
2.5.8. <i>ERD</i>	<i>Error! Bookmark not defined.</i>

3. ANALISIS KEBUTUHAN DAN PERANCANGAN APLIKASI ... ERROR! BOOKMARK NOT DEFINED.

- 3.1. ANALISIS KEBUTUHAN SISTEM **ERROR! BOOKMARK NOT DEFINED.**
 - 3.1.1. Analisis Masalah..... **Error! Bookmark not defined.**
 - 3.1.2. Gambaran Umum..... **Error! Bookmark not defined.**
- 3.2. ANALISIS KEBUTUHAN APLIKASI **ERROR! BOOKMARK NOT DEFINED.**
 - 3.2.1. Kebutuhan Perangkat Lunak **Error! Bookmark not defined.**
 - 3.2.2. Kebutuhan Perangkat Keras..... **Error! Bookmark not defined.**
- 3.3. ARSITEKTUR SISTEM..... **ERROR! BOOKMARK NOT DEFINED.**
- 3.4. PERANCANGAN SISTEM **ERROR! BOOKMARK NOT DEFINED.**
 - 3.4.1. Flow Chart **Error! Bookmark not defined.**
 - 3.4.2. Use Case **Error! Bookmark not defined.**
 - 3.4.3. Skenario Usecase..... **Error! Bookmark not defined.**
 - 3.4.4. Activity Diagram **Error! Bookmark not defined.**
 - 3.4.5. Sequence Diagram..... **Error! Bookmark not defined.**
 - 3.4.6. Class Diagram..... **Error! Bookmark not defined.**
 - 3.4.7. Component Diagram **Error! Bookmark not defined.**
 - 3.4.8. Deployment Diagram **Error! Bookmark not defined.**
 - 3.4.9. Perancangan Basis Data (ERD)..... **Error! Bookmark not defined.**
- 3.5. PERANCANGAN ANTAR MUKA **ERROR! BOOKMARK NOT DEFINED.**
 - 3.5.1. Perancangan Antarmuka Aplikasi **Error! Bookmark not defined.**
 - 3.5.2. Perancangan Antarmuka Menambahkan Lagu **Error! Bookmark not defined.**
 - 3.5.3. Perancangan Antarmuka Data Reference..... **Error! Bookmark not defined.**
 - 3.5.4. Perancangan Antarmuka Data Comparasion..... **Error! Bookmark not defined.**
 - 3.5.5. Perancangan Antarmuka Score **Error! Bookmark not defined.**
 - 3.5.6. Perancangan Antarmuka Edit dan Hapus Katalog ... **Error! Bookmark not defined.**
- 3.6. PERANCANGAN HARDWARE **ERROR! BOOKMARK NOT DEFINED.**

4. IMPLEMENTASI DAN PENGUJIAN APLIKASI ERROR! BOOKMARK NOT DEFINED.

- 4.1. IMPLEMENTASI APLIKASI CHOIR HELPER **ERROR! BOOKMARK NOT DEFINED.**
- 4.2. STUKTUR KODE..... **ERROR! BOOKMARK NOT DEFINED.**
- 4.3. PERANCANGAN PENGUJIAN..... **ERROR! BOOKMARK NOT DEFINED.**
 - 4.3.1. Perancangan Pengujian Fungsionalitas Awal Aplikasi **Error! Bookmark not defined.**
 - 4.3.2. Perancangan Pengujian Fungsionalitas Tambah Lagu **Error! Bookmark not defined.**
 - 4.3.3. Perancangan Pengujian Fungsionalitas Edit Lagu... **Error! Bookmark not defined.**
 - 4.3.4. Perancangan Pengujian Fungsionalitas Hapus Lagu **Error! Bookmark not defined.**
 - 4.3.5. Perancangan Pengujian Fungsionalitas Data Reference **Error! Bookmark not defined.**
 - 4.3.6. Perancangan Pengujian Fungsionalitas Data Comparison **Error! Bookmark not defined.**
 - 4.3.7. Perancangan Pengujian Fungsionalitas History Score **Error! Bookmark not defined.**
- 4.4. HASIL PENGUJIAN **ERROR! BOOKMARK NOT DEFINED.**
 - 4.4.1. Hasil Pengujian Fungsionalitas Tambah Lagu **Error! Bookmark not defined.**
 - 4.4.2. Hasil Pengujian Fungsionalitas Edit Lagu **Error! Bookmark not defined.**
 - 4.4.3. Hasil Pengujian Fungsionalitas Hapus Lagu **Error! Bookmark not defined.**
 - 4.4.4. Hasil Pengujian Fungsionalitas Data Reference **Error! Bookmark not defined.**
 - 4.4.5. Hasil Pengujian Fungsionalitas Data Comparison **Error! Bookmark not defined.**
 - 4.4.6. Hasil Pengujian Fungsionalitas History Score **Error! Bookmark not defined.**
- 4.5. DIAGRAM HASIL SURVEI **ERROR! BOOKMARK NOT DEFINED.**

- 4.5.1. Aplikasi dapat membantu menentukan nada yang tepat **Error! Bookmark not defined.**
- 4.5.2. Kemudahan penggunaan aplikasi **Error! Bookmark not defined.**
- 4.5.3. Aplikasi dapat mengatasi pecah suara..... **Error! Bookmark not defined.**
- 4.5.4. Aplikasi sesuai kebutuhan **Error! Bookmark not defined.**
- 4.5.5. Tampilan antarmuka aplikasi..... **Error! Bookmark not defined.**

5. KESIMPULAN DAN SARAN ERROR! BOOKMARK NOT DEFINED.

- 5.1. KESIMPULAN **ERROR! BOOKMARK NOT DEFINED.**
- 5.2. SARAN **ERROR! BOOKMARK NOT DEFINED.**

DAFTAR PUSTAKA ERROR! BOOKMARK NOT DEFINED.