

DAFTAR ISI

KATA PENGANTAR	Error! Bookmark not defined.
ABSTRAK	Error! Bookmark not defined.
ABSTRACT	Error! Bookmark not defined.
DAFTAR ISI	v
DAFTAR GAMBAR	viii
DAFTAR TABEL	9
BAB I	Error! Bookmark not defined.
PENDAHULUAN	Error! Bookmark not defined.
1.1 Latar Belakang	Error! Bookmark not defined.
1.2 Rumusan Masalah	Error! Bookmark not defined.
1.3 Tujuan Penelitian	Error! Bookmark not defined.
1.4 Batasan Masalah	Error! Bookmark not defined.
1.5 Kerangka Pemikiran	Error! Bookmark not defined.
1.6 Metodologi Penelitian	Error! Bookmark not defined.
1.6.1 Metode pengumpulan data	Error! Bookmark not defined.
1.6.2 Metode Pengembangan Sistem	Error! Bookmark not defined.
1.7 Sistematika Penulisan	Error! Bookmark not defined.
BAB II	Error! Bookmark not defined.
LANDASAN TEORI	Error! Bookmark not defined.
2.1 Pengolahan Citra Digital	Error! Bookmark not defined.
2.2 Klasifikasi Data	Error! Bookmark not defined.
2.3 <i>K-Nearest Neighbor</i>	Error! Bookmark not defined.
2.4 Ekstraksi Ciri Statistik	Error! Bookmark not defined.
2.5 Bawang Merah	Error! Bookmark not defined.
2.6 OPT (Organisme Pengganggu Tumbuhan)	Error! Bookmark not defined.
	defined.

2.7	Model Pengembangan <i>Prototype</i>	Error! Bookmark not defined.
2.8	<i>Unified Modeling Language</i>	Error! Bookmark not defined.
2.8.1	<i>Use Case Diagram</i>	Error! Bookmark not defined.
2.8.2	<i>Activity Diagram</i>	Error! Bookmark not defined.
2.8.3	<i>Class Diagram</i>	Error! Bookmark not defined.
2.8.4	<i>Sequence Diagram</i>	Error! Bookmark not defined.
2.9	<i>Android</i>	Error! Bookmark not defined.
2.10	<i>Android SDK (Software Development Kit)</i>	Error! Bookmark not defined.
2.11	<i>Java</i>	Error! Bookmark not defined.
2.12	<i>Black Box Testing</i>	Error! Bookmark not defined.
2.13	<i>AndroidStudio</i>	Error! Bookmark not defined.
2.14	<i>State of the Art</i>	Error! Bookmark not defined.
BAB III		Error! Bookmark not defined.
ANALISIS DAN PERANCANGAN		Error! Bookmark not defined.
3.1	Analisis Masalah	Error! Bookmark not defined.
3.2	Analisis Sistem	Error! Bookmark not defined.
3.2.1	Tahap-tahap Pembuatan Perangkat Lunak ..	Error! Bookmark not defined. defined.
3.2.2	Analisis Kebutuhan Non-Fungsional	Error! Bookmark not defined.
3.2.3	Arsitektur Sistem	Error! Bookmark not defined.
3.2.4	Arsitektur Aplikasi	Error! Bookmark not defined.
3.2.5	<i>Flowchart</i> Aplikasi	Error! Bookmark not defined.
3.2.6	Analisis Metode Ekstraksi Ciri Statistik	Error! Bookmark not defined. defined.
3.2.7	Analisis Metode Klasifikasi KNN	Error! Bookmark not defined.
3.2.8	<i>Analisis Preprocessing</i>	Error! Bookmark not defined.
3.3	Perancangan Sistem	Error! Bookmark not defined.
3.3.1	<i>Use Case Diagram</i>	Error! Bookmark not defined.
3.3.2	<i>Activity Diagram</i>	Error! Bookmark not defined.
3.3.3	<i>Class Diagram</i>	Error! Bookmark not defined.

3.3.4	<i>Sequence Diagram</i>	Error! Bookmark not defined.
3.4	<i>Perancangan Interface</i>	Error! Bookmark not defined.
BAB IV	.....	Error! Bookmark not defined.
IMPLEMENTASI DAN PENGUJIAN	.....	Error! Bookmark not defined.
4.1	Kebutuhan Sistem	Error! Bookmark not defined.
4.1.1	Kebutuhan Perangkat Keras	Error! Bookmark not defined.
4.1.2	Implementasi Perangkat Lunak	Error! Bookmark not defined.
4.2	Implementasi Antarmuka	Error! Bookmark not defined.
4.3	Pengujian Sistem	Error! Bookmark not defined.
4.4	Pengujian Klasifikasi OPT Bawang Merah	Error! Bookmark not defined.
4.5	Pembahasan Hasil Pengujian Klasifikasi Citra	Error! Bookmark not defined.
BAB V	.....	Error! Bookmark not defined.
PENUTUP	.....	Error! Bookmark not defined.
5.1	Kesimpulan	Error! Bookmark not defined.
5.2	Saran	Error! Bookmark not defined.
DAFTAR PUSTAKA	.....	80

DAFTAR GAMBAR

BAB 1

Gambar 1.1 Kerangka PemikiranError! Bookmark not defined.

Gambar 1.2 Paradigma Prototyping[3]Error! Bookmark not defined.

BAB 2

Gambar 2.1 4-ketetanggan dan 8-ketetangga[4].....Error! Bookmark not defined.

Gambar 2.2 Pengklasifikasian KNN[6].....Error! Bookmark not defined.

Gambar 2.3 Paradigma *Prototyping*[3]Error! Bookmark not defined.

BAB 3

Gambar 3.1 Skema Analisis MasalahError! Bookmark not defined.

Gambar 3.2 Arsitektur sistem.....Error! Bookmark not defined.

Gambar 3.3 Arsitektur aplikasi.....Error! Bookmark not defined.

Gambar 3.4 *Flowchart* Aplikasi.....Error! Bookmark not defined.

Gambar 3.5 *Flowchart* Perhitungan.....Error! Bookmark not defined.

Gambar 3.6 Analisis Preprocessing.....Error! Bookmark not defined.

Gambar 3.7 *Use case diagram* Sistem OPT.....Error! Bookmark not defined.

Gambar 3.8 *Activity* Lihat Hama dan Penyakit.....Error! Bookmark not defined.

Gambar 3.9 *Activity* Pengelolaan OPT *Scan*.....Error! Bookmark not defined.

Gambar 3.10 *Classdiagram* SistemError! Bookmark not defined.

Gambar 3.11 *Sequencediagram* Pengenalan OPT.....Error! Bookmark not defined.

Gambar 3.12 *Sequencediagram* pengenalan OPTError! Bookmark not defined.

Gambar 3.13 *Splash Screen*.....Error! Bookmark not defined.

Gambar 3.14 Tampilan *Home*Error! Bookmark not defined.

Gambar 3.15 Tampilan Tab *Scan* OPTError! Bookmark not defined.

Gambar 3.16 Tampilan *ButtonScan*Error! Bookmark not defined.

Gambar 3.17 Kamera *Real Time*Error! Bookmark not defined.

Gambar 3.18 Tampilan Hasil *Scan* GambarError! Bookmark not defined.

BAB 4

Gambar 4.1 Tampilan *form* menu utamaError! Bookmark not defined.

Gambar 4.2 Tampilan *form* ambil gambarError! Bookmark not defined.

Gambar 4.3 *SourceCode* Ekstraksi Ciri Statistik..Error! Bookmark not defined.

Gambar 4.4 *Sourcecode* menghitung Klasifikasi *K-Nearest Neighbor*Error! Bookmark not defined.

Gambar 4.5 Tampilan *form* sub menuError! Bookmark not defined.

Gambar 4.6 *FormImport* GambarError! Bookmark not defined.

Gambar 4.7 Tampilan *Form* InformasiError! Bookmark not defined.

DAFTAR TABEL

BAB 2

Tabel 2.1 Matriks konfusi untuk klasifikasi dua kelas.....Error! Bookmark not defined.

Tabel 2.2 Jenis OPT Bawang Merah.....Error! Bookmark not defined.

Tabel 2.3 Jenis Penyakit Tanaman.....Error! Bookmark not defined.

Tabel 2.4 Simbol *use case diagram*Error! Bookmark not defined.

Tabel 2.5 Simbol *activitydiagram*Error! Bookmark not defined.

Tabel 2.6 Simbol *class diagram*Error! Bookmark not defined.

Tabel 2.7 Simbol *sequencediagram*Error! Bookmark not defined.

Tabel 2.8 *State of the art*Error! Bookmark not defined.

BAB 3

Tabel 3.1 Matriks RGB 5x5Error! Bookmark not defined.

Tabel 3 2 Nilai intensitas dan histogram citra.....Error! Bookmark not defined.

Tabel 3.3 Ekstraksi ciri statistikError! Bookmark not defined.

Tabel 3.4 Ekstraksi Citra latih Ulat BawangError! Bookmark not defined.

Tabel 3.5 Ekstraksi Citra latih Kutu DaunError! Bookmark not defined.

Tabel 3.6 Ekstraksi Citra latih Lalat Pengorok Daun.....Error! Bookmark not defined.

Tabel 3.7 Ekstraksi Citra latih Uret.....Error! Bookmark not defined.

Tabel 3.8 Ekstraksi Citra latih Orong-orongError! Bookmark not defined.

Tabel 3.9 Perhitungan Jarak objek baru dengan citra latih.....Error! Bookmark not defined.

Tabel 3.10 Pengurutan dengan $K = 5$Error! Bookmark not defined.

BAB 4

Tabel 4.1 Pengujian *Form* Menu Utama.....Error! Bookmark not defined.

Tabel 4.2 Pengujian *Form* Sub MenuError! Bookmark not defined.

Tabel 4.3 Pengujian *FormImport* GambarError! Bookmark not defined.

Tabel 4.4 Pengujian *Form* nformasi.....Error! Bookmark not defined.

Tabel 4.5 Pengujian citra jenis Ulat GrayakError! Bookmark not defined.

Tabel 4.6 Detail Pengujian dokumen secara keseluruhan .Error! Bookmark not defined.

