

## DAFTAR ISI

<b>PERNYATAAN</b> .....	Error! Bookmark not defined.
<b>KATA PENGANTAR</b> .....	Error! Bookmark not defined.
<b>UCAPAN TERIMA KASIH</b> .....	Error! Bookmark not defined.
<b>ABSTRAK</b> .....	Error! Bookmark not defined.
<b>ABSTRACT</b> .....	Error! Bookmark not defined.
<b>DAFTAR ISI</b> .....	<b>vii</b>
<b>DAFTAR TABEL</b> .....	<b>ix</b>
<b>DAFTAR GAMBAR</b> .....	<b>x</b>
<b>BAB I PENDAHULUAN</b> .....	Error! Bookmark not defined.
1.1 Latar Belakang .....	<b>Error! Bookmark not defined.</b>
1.2 Rumusan Masalah.....	<b>Error! Bookmark not defined.</b>
1.3 Batasan Masalah .....	<b>Error! Bookmark not defined.</b>
1.4 Tujuan Penelitian .....	<b>Error! Bookmark not defined.</b>
1.5 Manfaat penelitian .....	<b>Error! Bookmark not defined.</b>
1.6 Metode Penelitian .....	<b>Error! Bookmark not defined.</b>
1.7 Sistematika Penulisan .....	<b>Error! Bookmark not defined.</b>
<b>BAB II TINJAUAN PUSTAKA</b> .....	Error! Bookmark not defined.
2.1 Kecerdasan Buatan / <i>Artificial Intelligence</i> (AI) <b>Error! Bookmark not defined.</b>	
2.2 <i>Board Game</i> .....	<b>Error! Bookmark not defined.</b>
2.3 Pohon Pencarian.....	<b>Error! Bookmark not defined.</b>
2.4 <i>Depth First Search</i> (DFS).....	<b>Error! Bookmark not defined.</b>
2.5 <i>Minimax</i> .....	<b>Error! Bookmark not defined.</b>

2.6	<i>Alpha Beta Pruning</i> .....	<b>Error! Bookmark not defined.</b>
2.7	Mancala.....	<b>Error! Bookmark not defined.</b>
2.7.1	Ottjin .....	<b>Error! Bookmark not defined.</b>
2.6.4	Tata Cara Permainan .....	<b>Error! Bookmark not defined.</b>
2.7	Java .....	<b>Error! Bookmark not defined.</b>
<b>BAB III METODE PENELITIAN .....</b>		<b>Error! Bookmark not defined.</b>
3.1	Desain Penelitian .....	<b>Error! Bookmark not defined.</b>
3.2	Metode Penelitian.....	<b>Error! Bookmark not defined.</b>
3.2.1	Metode Pengumpulan Data .....	<b>Error! Bookmark not defined.</b>
3.2.2	Metode Pengembangan Perangkat Lunak.....	<b>Error! Bookmark not defined.</b>
3.3	Alat dan Bahan Penelitian .....	<b>Error! Bookmark not defined.</b>
3.3.1	Alat.....	<b>Error! Bookmark not defined.</b>
3.3.2	Bahan .....	<b>Error! Bookmark not defined.</b>
<b>BAB IV HASIL PENELITIAN DAN PEMBAHASAN.....</b>		<b>Error! Bookmark not defined.</b>
		defined.
4.1	Tinjauan Umum .....	<b>Error! Bookmark not defined.</b>
4.2	Pengembangan Perangkat Lunak.....	<b>Error! Bookmark not defined.</b>
4.2.1	Analisis Data .....	<b>Error! Bookmark not defined.</b>
4.2.2	Model <i>Minimax</i> dengan <i>Alpha Beta Pruning</i> .....	<b>Error! Bookmark not defined.</b>
4.2.3	Implementasi .....	<b>Error! Bookmark not defined.</b>
4.3	Pengujian.....	<b>Error! Bookmark not defined.</b>
4.3.1	Lingkungan pengujian.....	<b>Error! Bookmark not defined.</b>
4.3.2	Hasil Pengujian .....	<b>Error! Bookmark not defined.</b>
4.3.3	Analisis Hasil Pengujian .....	<b>Error! Bookmark not defined.</b>
<b>BAB V KESIMPULAN DAN SARAN .....</b>		<b>Error! Bookmark not defined.</b>
5.1	Kesimpulan .....	<b>Error! Bookmark not defined.</b>
5.2	Saran .....	<b>Error! Bookmark not defined.</b>

**DAFTAR PUSTAKA** .....Error! Bookmark not defined.

## **DAFTAR TABEL**

Tabel 4. 1 *Keterangan Pohon Pencarian*.....**Error! Bookmark not defined.**

Tabel 4. 2 *Daftar kelas*.....**Error! Bookmark not defined.**

Tabel 4. 3 *Hasil Pengujian Jumlah Node yang Dihasilkan***Error! Bookmark not defined.**

Tabel 4. 4 *Hasil Pengujian Fungsi Heuristik* .....**Error! Bookmark not defined.**

Tabel 4. 5 *Hasil Pengujian Fungsi Perangkat Lunak***Error! Bookmark not defined.**

## DAFTAR GAMBAR

- Gambar 2. 1 *Ilustrasi Depth First Search*.....**Error! Bookmark not defined.**
- Gambar 2. 2 *Ilustrasi Minimax di dalam Pohon Pencarian***Error! Bookmark not defined.**
- Gambar 2. 3 *Ilustrasi Alpha Beta Pruning*.....**Error! Bookmark not defined.**
- Gambar 2. 4 *Papan Permainan Ottjin* .....**Error! Bookmark not defined.**
- Gambar 3. 1 *Desain Penelitian* .....**Error! Bookmark not defined.**
- Gambar 3. 2 *Representasi State* .....**Error! Bookmark not defined.**
- Gambar 3. 3 *Ilustrasi Pohon Pencarian* .....**Error! Bookmark not defined.**
- Gambar 3. 4 *Flowchart Minimax dengan Alpha Beta Pruning***Error! Bookmark not defined.**
- Gambar 3. 5 *Model Sekuensial Linear (Pressman, 2001)*.**Error! Bookmark not defined.**
- Gambar 4. 1 *Ilustrasi State*.....**Error! Bookmark not defined.**
- Gambar 4. 2 *Ilustrasi State Awal* .....**Error! Bookmark not defined.**
- Gambar 4. 3 *Ilustrasi State di Tengah Permainan*.**Error! Bookmark not defined.**
- Gambar 4. 4 *Ilustrasi State Terminal*.....**Error! Bookmark not defined.**
- Gambar 4. 5 *Ilustrasi State*.....**Error! Bookmark not defined.**
- Gambar 4. 6 *Ilustrasi State Aktif*.....**Error! Bookmark not defined.**

Gambar 4. 7 *Ilustrasi State yang dibangkitkan*.....**Error! Bookmark not defined.**

Gambar 4. 8 *Ilustrasi State ketika Permainan Berakhir***Error! Bookmark not defined.**

Gambar 4. 9 *Pohon Pencarian Alpha Beta Pruning***Error! Bookmark not defined.**

Gambar 4. 10 *Tingkatan Pohon Pencarian*.....**Error! Bookmark not defined.**

Gambar 4. 11 *Pohon Pencarian Alpha Beta Pruning***Error! Bookmark not defined.**

Gambar 4. 12 *State Papan Ottjin* .....**Error! Bookmark not defined.**

Gambar 4. 13 Hasil *Pohon Pencarian* .....**Error! Bookmark not defined.**

Gambar 4. 14 Hasil Perhitungan Terhadap *Pohon Pencarian***Error! Bookmark not defined.**

Gambar 4. 15 *Antar muka perangkat lunak* .....**Error! Bookmark not defined.**