# DAFTAR ISI

**LEMBAR PERNYATAAN .....**Error! Bookmark not defined.

**ABSTRAK .....**Error! Bookmark not defined.

**ABSTRACT.....**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.

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

**BAB I PENDAHULUAN.....**Error! Bookmark not defined.

1.1 Latar Belakang .....**Error! Bookmark not defined.**

1.2 Maksud Dan Tujuan .....**Error! Bookmark not defined.**

1.3 Batasan Masalah.....**Error! Bookmark not defined.**

1.4 Metode Penelitian.....**Error! Bookmark not defined.**

1.5 Sistematika Penulisan.....**Error! Bookmark not defined.**

**BAB II TEORI PENUNJANG.....**Error! Bookmark not defined.

2.1 Home Automation .....**Error! Bookmark not defined.**

2.2 HyperText Transfer Protocol (HTTP).....**Error! Bookmark not defined.**

2.3 Aplikasi Web.....**Error! Bookmark not defined.**

2.3.1 Website.....**Error! Bookmark not defined.**

2.3.2 Web Browser.....**Error! Bookmark not defined.**

2.4 Topologi Jaringan Komputer.....**Error! Bookmark not defined.**

2.4.1 Jaringan Local Area Network (LAN)**Error! Bookmark not defined.**

2.5 Common Gateway Interface (CGI) .....**Error! Bookmark not defined.**

2.6 Komunikasi Serial .....**Error! Bookmark not defined.**

2.7 Perangkat Keras Home Automation.....**Error! Bookmark not defined.**

2.7.1 Mikrokontroler .....**Error! Bookmark not defined.**

2.7.2 Router.....**Error! Bookmark not defined.**

2.7.3 Sensor Cahaya.....**Error! Bookmark not defined.**

2.7.4 Sensor Suhu.....**Error! Bookmark not defined.**

2.7.5 Sensor Motion .....**Error! Bookmark not defined.**

2.8 Perangkat Lunak Home Automation.....**Error! Bookmark not defined.**

2.8.1 Sistem Operasi Router.....**Error! Bookmark not defined.**

2.8.2 Bahasa Pemrograman Untuk Aplikasi CGI**Error! Bookmark not defined.**

2.8.3 Pemrograman Web.....**Error! Bookmark not defined.**

**BAB III PERANCANGAN SISTEM .....**Error! Bookmark not defined.

3.1 Diagram Blok Sistem .....**Error! Bookmark not defined.**

3.2 Diagram Blok Perangkat Keras .....**Error! Bookmark not defined.**

3.2.1 Mikrokontroler .....**Error! Bookmark not defined.**

3.2.2 Router.....**Error! Bookmark not defined.**

3.2.3 USB to Serial .....**Error! Bookmark not defined.**

3.2.4 Sensor.....**Error! Bookmark not defined.**

3.2.5 Kamera .....**Error! Bookmark not defined.**

3.2.6 Aktuator.....**Error! Bookmark not defined.**

3.2.7 Catu Daya.....**Error! Bookmark not defined.**

3.3 Diagram Blok Perangkat Lunak .....**Error! Bookmark not defined.**

3.3.1 Instalasi OpenWrt.....**Error! Bookmark not defined.**

3.3.2 Media Penyimpanan Eksternal (Extroot)**Error! Bookmark not defined.**

3.3.3 Web Server.....**Error! Bookmark not defined.**

3.3.4 Bahasa Pemrograman Untuk Aplikasi CGI**Error! Bookmark not defined.**

3.3.5 Pemrograman Serial.....**Error! Bookmark not defined.**

3.3.6 Diagram Blok Perancangan Website**Error! Bookmark not defined.**

3.4 Perancangan Algoritma .....**Error! Bookmark not defined.**

3.4.1 Algoritma Otomatisasi Lampu.....**Error! Bookmark not defined.**

3.4.2 Algoritma Otomatisasi LED .....**Error! Bookmark not defined.**

3.4.3 Algoritma Sensor Suhu .....**Error! Bookmark not defined.**

3.4.4 Algoritma Kirim Data (Kendali Lampu)**Error! Bookmark not defined.**

3.4.5 Algoritma Kirim Data (Kendali LED)**Error! Bookmark not defined.**

3.4.6 Algoritma Terima Data (Data Sensor)**Error! Bookmark not defined.**

**BAB IV HASIL PENGUJIAN DAN ANALISIS...**Error! Bookmark not defined.

4.1 Hasil Pengujian dan Analisis.....**Error! Bookmark not defined.**

4.1.1 Pengujian Lampu .....**Error! Bookmark not defined.**

4.1.2 Pengujian Sensor Suhu.....**Error! Bookmark not defined.**

4.1.3 Pengujian Kamera .....**Error! Bookmark not defined.**

4.1.4 Analisis Bahasa Pemrograman Server**Error! Bookmark not defined.**

**BAB V 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.