

## DAFTAR ISI

|  |            |
|--|------------|
| <b>ABSTRAK .....</b>                                   | <b>i</b>   |
| <b>ABSTRACT .....</b>                                  | <b>ii</b>  |
| <b>KATA PENGANTAR .....</b>                            | <b>iii</b> |
| <b>DAFTAR ISI.....</b>                                 | <b>v</b>   |
| <b>DAFTAR GAMBAR.....</b>                              | <b>ix</b>  |
| <b>DAFTAR TABEL.....</b>                               | <b>xi</b>  |
| <b>BAB I PENDAHULUAN.....</b>                          | <b>1</b>   |
| <b>1.1 Latar Belakang .....</b>                        | <b>1</b>   |
| <b>1.2 Perumusan Masalah.....</b>                      | <b>3</b>   |
| <b>1.3 Batasan Masalah.....</b>                        | <b>3</b>   |
| <b>1.4 Tujuan Penelitian .....</b>                     | <b>4</b>   |
| <b>1.5 Manfaat Penelitian .....</b>                    | <b>4</b>   |
| <b>1.6 State Of The Art.....</b>                       | <b>5</b>   |
| <b>1.7 Kerangka Pemikiran.....</b>                     | <b>10</b>  |
| <b>1.8 Metode Waterfall.....</b>                       | <b>11</b>  |
| <b>1.9 Sistematika Penulisan .....</b>                 | <b>14</b>  |
| <b>BAB II STUDI PUSTAKA .....</b>                      | <b>15</b>  |
| <b>2.1 Studi Pustaka .....</b>                         | <b>15</b>  |
| 2.1.2 Pengertian Sistem.....                           | 15         |
| 2.1.2.1 Karakteristik Sistem .....                     | 15         |
| 2.1.3 Sistem Pendukung Keputusan.....                  | 17         |
| 2.1.3.1 Konsep Dasar Pengambilan Keputusan.....        | 17         |
| 2.1.3.1.1 Pengertian Keputusan .....                   | 17         |
| 2.1.3.1.2 Pengertian Pengambilan Keputusan .....       | 17         |
| 2.1.3.2 Pengertian Sistem Pendukung Keputusan .....    | 18         |
| 2.1.3.2.1 Karakteristik Sistem Pedukung Keputusan..... | 20         |
| 2.1.3.2.2 Komponen Sistem Pendukung Keputusan.....     | 20         |
| 2.1.4 Metode Analytical Hierarchy Process (AHP).....   | 22         |

|  |  |           |
|--|--|-----------|
| 2.1.4.1                                      | Pengertian Metode Analytical Hierarchy Process (AHP) ..... | 22        |
| 2.1.4.2                                      | Kelebihan dan Kekurangan Metode AHP .....                  | 24        |
| 2.1.4.2.1                                    | Kelebihan Metode AHP .....                                 | 24        |
| 2.1.4.2.2                                    | Kekurangan Metode AHP.....                                 | 25        |
| 2.1.4.3                                      | Langkah dan Prosedur AHP .....                             | 26        |
| 2.1.3.4                                      | Tahapan AHP.....   | 32        |
| 2.1.3.5                                      | Aksioma dan Dasar Prinsip AHP .....                        | 33        |
| 2.1.4  | Rumah Minimalis.....                                       | 35        |
| 2.1.5  | Desain.....  | 35        |
| 2.1.5.1                                      | Desain Interior.....                                       | 36        |
| 2.1.5.1.1                                    | Tujuan Desain Interior.....                                | 36        |
| 2.1.5.1.2                                    | Manfaat Desain Interior.....                               | 37        |
| 2.1.5.1.3                                    | Prinsip Desain Interior.....                               | 38        |
| 2.1.5.1.4                                    | Elemen Desain Interior.....                                | 39        |
| <b>BAB III ANALISIS DAN PERANCANGAN.....</b> |  | <b>41</b> |
| <b>3.1</b>                                   | <b>Analisis.....</b>                                       | <b>41</b> |
| 3.1.1  | Analisis Masalah .....                                     | 41        |
| 3.1.2  | Analisis Sistem.....                                       | 41        |
| 3.1.3  | Analisis Kebutuhan .....                                   | 42        |
| 3.1.3.1                                      | Analisis Kebutuhan Fungsional.....                         | 42        |
| 3.1.3.2                                      | Analisis Kebutuhan Non Fungsional.....                     | 43        |
| 3.1.3.3                                      | Analisis Kebutuhan <i>Software</i> .....                   | 43        |
| 3.1.3.4                                      | Analisis Kebutuhan <i>Hardware</i> .....                   | 43        |
| 3.1.4  | Analisis Data Metode AHP .....                             | 44        |
| 3.1.4.1                                      | Struktur Hirarki Pemilihan Desain Rumah.....               | 44        |
| 3.1.4.2                                      | Perhitungan Matriks Untuk Semua Kriteria .....             | 45        |
| 3.1.4.3                                      | Perhitungan Matriks .....                                  | 50        |
| 3.1.4.4                                      | Matriks Perbandingan Kriteria Dengan Alternatif .....      | 51        |
| <b>3.2</b>                                   | <b>Pemodelan Sistem.....</b>                               | <b>61</b> |
| 3.2.1  | Diagram Konteks .....                                      | 61        |
| 3.2.2  | Data Flow Diagram .....                                    | 64        |

|               |   |           |
|---------------|---|-----------|
| <b>3.3</b>    | <b>Rancangan Umum</b> .....                   | <b>74</b> |
| 3.3.1         | Kamus Data ( <i>Data Dictionary</i> ).....    | 74        |
| 3.3.2         | <i>Entity-Relationship</i> Diagram (ERD)..... | 76        |
| 3.3.3         | Relasi Tabel.....                             | 82        |
| 3.3.4         | Struktur Tabel.....                           | 82        |
| <b>3.4</b>    | <b>Arsitektur Sistem</b> .....                | <b>91</b> |
| 3.4.1         | Struktur Menu .....                           | 91        |
| 3.4.2         | Antarmuka.....                                | 92        |
| 3.4.2.1       | Rancangan <i>Form Login</i> .....             | 92        |
| 3.4.2.2       | Rancangan Form Data Client .....              | 93        |
| 3.4.2.3       | Rancangan Form Kriteria .....                 | 94        |
| 3.4.2.4       | Rancangan Form Hasil Akhir.....               | 94        |
| <b>BAB IV</b> | <b>IMPLEMENTASI DAN PENGUJIAN</b> .....       | <b>89</b> |
| <b>4.1</b>    | <b>Tahap Implementasi</b> .....               | <b>89</b> |
| 4.1.1         | Perangkat Lunak ( <i>Software</i> ).....      | 89        |
| 4.1.2         | Perangkat Keras ( <i>Hardware</i> ) .....     | 89        |
| 4.1.3         | Implementasi Database .....                   | 90        |
| 4.1.3.1       | Tampilan Tabel Admin.....                     | 90        |
| 4.1.3.2       | Tampilan Form Client .....                    | 90        |
| 4.1.3.3       | Tampilan Form Kriteria.....                   | 91        |
| 4.1.3.4       | Tampilan Tabel Prioritas .....                | 92        |
| 4.1.4         | Tampilan Antar Muka .....                     | 92        |
| 4.1.4.1       | Halaman <i>Login</i> .....                    | 93        |
| 4.1.4.2       | Form Data Client .....                        | 94        |
| 4.1.4.3       | Form Kriteria.....                            | 94        |
| 4.1.4.4       | Halaman Akhir .....                           | 95        |
| <b>4.2</b>    | <b>Pengujian Keseluruhan Sistem</b> .....     | <b>95</b> |
| 4.2.1         | Testing.....                                  | 95        |
| 4.2.1.1       | Pengujian <i>Black Box</i> .....              | 95        |
| <b>BAB V</b>  | <b>PENUTUP</b> .....                          | <b>98</b> |
| <b>1.1</b>    | <b>Kesimpulan</b> .....                       | <b>98</b> |

|     |                     |     |
|-----|---------------------|-----|
| 1.2 | Saran.....          | 100 |
|     | DAFTAR PUSTAKA..... | 101 |

