

## DAFTAR ISI

|                                                    | Halaman |
|----------------------------------------------------|---------|
| LEMBAR PERSETUJUAN .....                           | ii      |
| KATA PENGANTAR.....                                | iv      |
| ABSTRAKSI.....                                     | vi      |
| DAFTAR ISI.....                                    | vii     |
| DAFTAR GAMBAR .....                                | x       |
| DAFTAR TABEL.....                                  | xii     |
| <br><b>BAB I PENDAHULUAN</b>                       |         |
| 1.1 Latar Belakang Masalah .....                   | 1       |
| 1.2 Rumusan Masalah .....                          | 2       |
| 1.3 Batasan Masalah.....                           | 2       |
| 1.4 Tujuan Penulisan .....                         | 2       |
| 1.5 Manfaat .....                                  | 3       |
| 1.6 Sistem Penulisan .....                         | 3       |
| <br><b>BAB II TINJAUAN PUSTAKA</b>                 |         |
| 2.1 Pengertian Sistem.....                         | 5       |
| 2.2 Pengertian Data dan Informasi.....             | 6       |
| 2.3 Pengertian Sistem Informasi.....               | 7       |
| 2.4 Pengertian Desain Sistem.....                  | 7       |
| 2.5 Perancangan Sistem.....                        | 8       |
| 2.5.1 Information Oriented Flow Chart (IOFC) ..... | 8       |
| 2.5.2 Context Diagram.....                         | 9       |
| 2.5.3 Data Flow Diagram.....                       | 10      |
| 2.5.4 Flowchart (Diagram Alir).....                | 11      |
| 2.5.5 Entity Relationship Diagram.....             | 11      |
| 2.6 Metode Pengembangan Sistem Informasi .....     | 13      |
| 2.6.1 Sistem Development Life Cycle (SDLC).....    | 14      |
| 2.7 Pengertian Database .....                      | 16      |
| 2.7.1 Kegunaan Database.....                       | 18      |
| 2.7.2 Model-Model Database.....                    | 19      |
| 2.8 Pengertian Manajemen Personalia .....          | 20      |
| 2.9 Pengertian Sistem Informasi Personalia.....    | 20      |
| 2.10 Pengertian Penggajian (Payroll).....          | 20      |
| 2.11 Visual Basic 6.0.....                         | 21      |
| 2.11.1 Pengertian Visual Basic.....                | 21      |
| 2.11.1 Pengoperasian Visual Basic 6.0.....         | 21      |
| <br><b>BAB III METODE PENELITIAN</b>               |         |
| 3.1 Observasi .....                                | 26      |
| 3.2 Studi Literatur .....                          | 26      |
| 3.3 Perancangan .....                              | 26      |
| 3.4 Impementasi .....                              | 26      |
| 3.5 Pengujian Dan Analisis .....                   | 26      |
| 3.6 Pengambilan Kesimpulan .....                   | 27      |
| 3.7 Penulisan Laporan.....                         | 27      |

## BAB IV PERANCANGAN

|                                                                          |    |
|--------------------------------------------------------------------------|----|
| 4.1 Tinjauan Umum Perusahaan.....                                        | 28 |
| 4.1.1 Sejarah Singkat Perusahaan.....                                    | 28 |
| 4.1.2 Struktur Organisasi Perusahaan.....                                | 28 |
| 4.1.3 Tugas Pokok (Job Description).....                                 | 29 |
| 4.1.4 Aturan Sistem Penggajian (Payroll) PT. Rajawali Cipta Mandiri..... | 30 |
| 4.1.5 Teori Pendapatan Karyawan.....                                     | 32 |
| 4.2 Analisis Masalah.....                                                | 33 |
| 4.2.1 Sistem yang Berjalan Sekarang.....                                 | 33 |
| 4.2.2 Permasalahan.....                                                  | 33 |
| 4.2.3 Usulan Pemecahan Masalah.....                                      | 34 |
| 4.3 Desain Sistem.....                                                   | 34 |
| 4.3.1 IOFC (Information Oriented Flow Chart).....                        | 35 |
| 4.3.2 Context Diagram.....                                               | 36 |
| 4.3.3 Data Flow Diagram (DFD).....                                       | 37 |
| 4.3.4 Entity Relationship Diagram (ERD) Model.....                       | 40 |
| 4.3.5 Desain Database.....                                               | 41 |
| 4.3.6 Desain Menu Program.....                                           | 45 |
| 4.3.7 Desain Input/Output.....                                           | 46 |
| 4.3.8 Desain Flowchart.....                                              | 55 |

## BAB V IMPLEMENTASI SISTEM

|                                            |    |
|--------------------------------------------|----|
| 5.1 Struktur Menu Program.....             | 63 |
| 5.2 Cara Menjalankan Program.....          | 63 |
| 5.2.1 Form Login.....                      | 63 |
| 5.2.2 Form Main Menu.....                  | 64 |
| 5.2.3 Form Master Jabatan.....             | 65 |
| 5.2.4 Form Master Bagian.....              | 66 |
| 5.2.5 Form Master Golongan.....            | 67 |
| 5.2.6 Form Master Karyawan.....            | 68 |
| 5.2.7 Form Rekap Absensi Karyawan.....     | 69 |
| 5.2.8 Form Rekap Lembur Karyawan.....      | 70 |
| 5.2.9 Form Pinjaman Karyawan.....          | 71 |
| 5.2.10 Form Perhitungan Gaji Karyawan..... | 72 |
| 5.2.11 Form Laporan Data Karyawan.....     | 73 |
| 5.2.12 Form Laporan Absensi Karyawan.....  | 74 |
| 5.2.13 Form Lembur Karyawan.....           | 75 |
| 5.2.14 Form Pinjaman Karyawan.....         | 76 |
| 5.2.15 Form Gaji Bulanan Karyawan.....     | 77 |

## BAB VI PENGUJIAN DAN ANALISIS

|                                               |    |
|-----------------------------------------------|----|
| 6.1 Pengujian.....                            | 78 |
| 6.2 Analisa Masalah.....                      | 79 |
| 6.2.1 Sistem Yang Berjalan Sekarang.....      | 79 |
| 6.2.2 Permasalahan.....                       | 79 |
| 6.2.3 Usulan Pemecahan Masalah.....           | 80 |
| 6.3 Pengujian Algoritma dengan White-Box..... | 80 |
| 6.3.1 Pengujian Menu File.....                | 80 |



|                                          |    |
|------------------------------------------|----|
| 6.3.2 Pengujian Form Login.....          | 81 |
| 6.3.3 Pengujian Form Karyawan .....      | 83 |
| 6.3.4 Pengujian Form Gaji Karyawan ..... | 85 |

## **BAB VII PENUTUP**

|                     |    |
|---------------------|----|
| 7.1 Kesimpulan..... | 87 |
| 7.2 Saran.....      | 87 |

## **DAFTAR PUSTAKA LAMPIRAN**



## DAFTAR GAMBAR

Halaman

|                                                                       |    |
|-----------------------------------------------------------------------|----|
| Gambar 2.1 Model umum sebuah sistem .....                             | 6  |
| Gambar 2.2 Simbol Flowchart.....                                      | 11 |
| Gambar 2.3 Penggambaran Entity dan Atribut.....                       | 12 |
| Gambar 2.4 Relasi <i>one to one</i> .....                             | 13 |
| Gambar 2.5 Relasi <i>one to many</i> .....                            | 13 |
| Gambar 2.6 Relasi <i>many to many</i> .....                           | 13 |
| Gambar 2.7 Jenjang Data.....                                          | 17 |
| Gambar 2.8 Tampilan Awal Visual Basic 6.0 .....                       | 21 |
| Gambar 2.9 Tampilan IDE Visual Basic 6.0 .....                        | 22 |
| Gambar 2.10 <i>General Window Toolbox Control</i> .....               | 23 |
| Gambar 4.1 Struktur Organisasi pada PT. Rajawali Cipta Mandiri.....   | 28 |
| Gambar 4.2 IOFC Sistem Informasi Penggajian .....                     | 35 |
| Gambar 4.3 Context Diagram Sistem Informasi Penggajian.....           | 37 |
| Gambar 4.4 DFD Level 1 Sistem Informasi Penggajian.....               | 38 |
| Gambar 4.5 DFD Level 2 Proses Entry Absensi, Lembur, Pinjaman.....    | 39 |
| Gambar 4.6 ERD Sistem Informasi penggajian.....                       | 40 |
| Gambar 4.7 Menu Utama Program .....                                   | 46 |
| Gambar 4.8 Desain Form Login User .....                               | 46 |
| Gambar 4.9 Desain Form Master Jabatan.....                            | 47 |
| Gambar 4.10 Desain Form Master Bagian .....                           | 48 |
| Gambar 4.11 Desain Form Master Golongan.....                          | 49 |
| Gambar 4.12 Desain Form Master Karyawan .....                         | 50 |
| Gambar 4.13 Desain Form Rekap Absensi Karyawan.....                   | 51 |
| Gambar 4.14 Desain Form Lembur Karyawan.....                          | 52 |
| Gambar 4.15 Desain Form Pinjaman Karyawan .....                       | 53 |
| Gambar 4.16 Desain Form Perhitungan Gaji.....                         | 54 |
| Gambar 4.17 Flowchart Input Data Karyawan .....                       | 55 |
| Gambar 4.18 Flowchart Input Absensi Karyawan.....                     | 56 |
| Gambar 4.19 Flowchart Lembur Karyawan .....                           | 57 |
| Gambar 4.20 Flowchart Input Pinjaman Karyawan.....                    | 58 |
| Gambar 4.21 Flowchart Perhitungan Bonus Kerja dan Uang Transport..... | 59 |



|                                                                      |    |
|----------------------------------------------------------------------|----|
| Gambar 4.22 Flowchart Perhitungan Bonus Lembur.....                  | 60 |
| Gambar 4.23 Flowchart Input Gaji dan Perhitungan Gaji Karyawan ..... | 61 |
| Gambar 5.1 Gambar Struktur Program .....                             | 63 |
| Gambar 5.2 Gambar Form Login.....                                    | 63 |
| Gambar 5.3 Gambar Form Main Menu .....                               | 64 |
| Gambar 5.4 Gambar Form Master Jabatan.....                           | 65 |
| Gambar 5.5 Gambar Form Master Bagian .....                           | 66 |
| Gambar 5.6 Gambar Form Master Golongan .....                         | 67 |
| Gambar 5.7 Gambar Form Master Karyawan.....                          | 68 |
| Gambar 5.8 Gambar Form Rekap Absensi.....                            | 69 |
| Gambar 5.9 Gambar Form Rekap Lembur Karyawan .....                   | 70 |
| Gambar 5.10 Gambar Form Pinjaman Karyawan.....                       | 71 |
| Gambar 5.11 Gambar Form Perhitungan Gaji Karyawan .....              | 72 |
| Gambar 5.12 Gambar Form Laporan Data Karyawan .....                  | 73 |
| Gambar 5.13 Gambar Form Laporan Absensi Karyawan .....               | 74 |
| Gambar 5.14 Gambar Form Laporan Lembur Karyawan .....                | 75 |
| Gambar 5.15 Gambar Form Laporan Pinjaman Karyawan .....              | 76 |
| Gambar 5.16 Gambar Form Laporan Gaji Bulanan Karyawan .....          | 77 |
| Gambar 6.1 PDL Form Login.....                                       | 81 |
| Gambar 6.2 Grafik Aliran dari Form Login.....                        | 81 |

## DAFTAR TABEL

|                                                 |    |
|-------------------------------------------------|----|
| Tabel 2.1 Simbol-Simbol IOFC .....              | 9  |
| Tabel 2.2 Simbol <i>Data Flow Diagram</i> ..... | 10 |
| Tabel 2.3 Contoh Tabel Database .....           | 18 |
| Tabel 4.1 Masalah dan Akibat .....              | 34 |
| Tabel 4.2 Tabel Jabatan .....                   | 41 |
| Tabel 4.3 Tabel Bagian .....                    | 41 |
| Tabel 4.4 Tabel Golongan .....                  | 42 |
| Tabel 4.5 Tabel Absensi .....                   | 42 |
| Tabel 4.6 Tabel Karyawan .....                  | 43 |
| Tabel 4.7 Tabel Lembur .....                    | 44 |
| Tabel 4.8 Tabel Pinjaman .....                  | 44 |
| Tabel 4.9 Tabel Penggajian .....                | 45 |
| Tabel 6.1 Berbagai Masalah dan Akibat .....     | 79 |

