

## DAFTAR ISI

|   |     |
|---|-----|
| LEMBAR PERNYATAAN .....                 | i   |
| LEMBAR PERSETUJUAN SIDANG .....         | ii  |
| LEMBAR PENGESAHAN .....                 | iii |
| KATA PENGANTAR.....                     | i   |
| ABSTRACT .....                          | v   |
| ABSTRAK .....                           | vi  |
| DAFTAR ISI .....                        | vii |
| DAFTAR GAMBAR .....                     | xi  |
| DAFTAR TABEL.....                       | xiv |
| BAB I .....                             | 1   |
| PENDAHULUAN .....                       | 1   |
| 1.1       Latar Belakang.....           | 1   |
| 1.2 Rumusan Masalah .....               | 2   |
| 1.3 Batasan Masalah.....                | 2   |
| 1.4 Tujuan dan Manfaat Penelitian ..... | 2   |
| 1.4.1 Tujuan .....                      | 2   |
| 1.4.2 Manfaat .....                     | 3   |
| 1.5 Metodologi Penelitian.....          | 3   |
| 1.6 Sistematika Penulisan .....         | 4   |
| BAB II .....                            | 6   |
| LANDASAN TEORI .....                    | 6   |
| 2.1 E-Commerce .....                    | 6   |
| 2.1.1 Pengertian E-Commerce .....       | 6   |
| 2.1.2 Jenis E-Commerce .....            | 6   |
| 2.1.3 Kelebihan E-Commerce .....        | 8   |
| 2..1.4 Kekurangan E-commerce .....      | 8   |
| 2.2 Sistem .....                        | 8   |
| 2.3 Karakteristik Sistem .....          | 8   |
| 2.4 Konsep Dasar Sistem Informasi ..... | 10  |

|                |  |           |
|----------------|--|-----------|
| 2.4.1          | Sistem Informasi .....                       | 10        |
| 2.4.2          | Jenis Sistem Informasi.....                  | 10        |
| 2.5            | Analisia PIECES .....                        | 11        |
| 2.6            | Waterfall .....                              | 18        |
| 2.7            | UML (Unified Modelling Language) .....       | 22        |
| 2.7.1          | Use Case Diagram .....                       | 23        |
| 2.7.2          | Activity Diagram .....                       | 25        |
| 2.7.3          | Sequence Diagram.....                        | 27        |
| 2.7.4          | Class Diagram .....                          | 28        |
| 2.8            | PHP.....                                     | 31        |
| 2.9            | MySQL .....                                  | 31        |
| 2.10           | Pengujian (Testing).....                     | 33        |
| 2.11           | Black Box Testing .....                      | 33        |
| <b>BAB III</b> | <b>ANALISA DAN PERANCANGAN SISTEM</b> .....  | <b>34</b> |
| 3.1            | Gambaran Umum Perusahaan .....               | 34        |
| 3.1.1          | Sejarah Singkat PT. Puncak Simole Jaya ..... | 34        |
| 3.1.2          | Struktur Organisasi Perusahaan.....          | 35        |
| 3.2            | Analisa Sistem .....                         | 35        |
| 3.2.1          | Identifikasi Masalah.....                    | 35        |
| 3.2.2          | Analisa Kebutuhan.....                       | 36        |
| 3.2.3          | Kebutuhan Fungsional.....                    | 36        |
| 3.2.4          | Rich Picture Berjalan .....                  | 36        |
| 3.2.5          | Analisis Permasalahan.....                   | 37        |
| 3.3            | Perancangan UML .....                        | 39        |
| 3.3.1          | Perancangan Use Case Diagram Berjalan .....  | 39        |
| 3.3.2          | Rich Picture Usulan.....                     | 43        |
| 3.3.3          | Perancangan Use Case Diagram Usulan .....    | 44        |
| 3.4            | Activity Diagram .....                       | 53        |
| 3.4.1          | Activity Diagram Admin Login.....            | 53        |
| 3.4.2          | Activity Diagram Kelola Pelanggan Admin..... | 54        |
| 3.4.3          | Activity Diagram Kategori Admin.....         | 55        |
| 3.4.4          | Activity Diagram Melihat Data Provinsi.....  | 56        |

|        |   |    |
|--------|---|----|
| 3.4.5  | Activity Diagram Melihat Pesanan .....                  | 57 |
| 3.4.6  | Activity Diagram Kategori Admin.....                    | 58 |
| 3.4.7  | Activity Diagram Konfirmasi Admin.....                  | 59 |
| 3.4.8  | Activity Diagram Registrasi Pelanggan .....             | 60 |
| 3.4.9  | Activity Diagram Login Pelanggan.....                   | 61 |
| 3.4.10 | Activity Diagram Memesan Barang.....                    | 62 |
| 3.4.11 | Activity Konfirmasi Pembayaran Pelanggan.....           | 63 |
| 3.5    | Sequence Diagram .....                                  | 64 |
| 3.5.1  | Sequence Diagram Admin Login.....                       | 64 |
| 3.5.2  | Sequence Diagram Kelola Data Pelanggan .....            | 65 |
| 3.5.3  | Sequence Diagram Kelola Kategori Admin .....            | 66 |
| 3.5.4  | Sequence Diagram Kelola Pesanan Admin .....             | 67 |
| 3.5.5  | Sequence Diagram Kelola Produk Admin.....               | 68 |
| 3.5.6  | Sequence Diagram Konfirmasi Pembayaran .....            | 69 |
| 3.5.7  | Sequence Diagram Kelola Provinsi Admin.....             | 70 |
| 3.5.8  | Sequence Diagram Login Pelanggan .....                  | 71 |
| 3.5.9  | Sequence Diagram Pemesanan Pelanggan .....              | 72 |
| 3.5.10 | Sequence Diagram Konfirmasi Pelanggan .....             | 73 |
| 3.6    | Class Diagram.....                                      | 74 |
| 3.7    | Perancangan Basis Data.....                             | 75 |
| 3.8    | Perancangan Antar Muka Sistem .....                     | 80 |
| 3.8.1  | Rancangan Layar Home .....                              | 81 |
| 3.8.2  | Rancangan Layar Home Login Pelanggan .....              | 82 |
| 3.8.3  | Rancangan Tampilan Layar Profile PT.Simole Jaya.....    | 83 |
| 3.8.4  | Rancangan Tampilan Layar Koleksi Barang .....           | 84 |
| 3.8.5  | Rancangan Tampilan Layar Koleksi Barang Pelanggan ..... | 85 |
| 3.8.6  | Rancangan Tampilan Layar Panduan Belanja .....          | 86 |
| 3.8.7  | Rancangan Tampilan Layar Konfirmasi Pelanggan.....      | 87 |
| 3.8.8  | Rancangan Tampilan Layar Bukti Upload Transfer .....    | 88 |
| 3.8.9  | Rancangan Tampilan Layar Transaksi .....                | 89 |
| 3.8.10 | Rancangan Tampilan Layar Keranjang Pelanggan .....      | 90 |
| 3.8.11 | Rancangan Tampilan Layar Login Admin .....              | 91 |
| 3.8.12 | Rancangan Tampilan Layar Ubah Password Admin .....      | 92 |

|        |  |     |
|--------|--|-----|
| 3.8.13 | Rancangan Tampilan Layar Data Provinsi Admin .....         | 93  |
| 3.8.14 | Rancangan Tampilan Layar Utama Admin .....                 | 94  |
| 3.8.15 | Rancangan Tampilan Layar Data Barang.....                  | 95  |
| 3.8.16 | Rancangan Tampilan Layar Data Pelanggan.....               | 96  |
| 3.8.17 | Rancangan Tampilan Layar Data Pemesanan.....               | 97  |
| 3.8.18 | Rancangan Tampilan Layar Data Kategori Barang .....        | 98  |
| 3.8.19 | Rancangan Tampilan Layar Konfirmasi Transfer.....          | 99  |
| 3.8.20 | Rancangan Tampilan Layar Laporan Admin.....                | 100 |
| 3.8.21 | Rancangan Tampilan Layar Laporam Data Kategori Barang..... | 101 |
| 3.8.22 | Rancangan Tampilan Layar Data Pelanggan.....               | 102 |
| 3.8.23 | Rancangan Tampilan Layar Laporan Data Provinsi .....       | 103 |
| 3.8.24 | Rancangan Tampilan Layar Pemesanan Lunas Per Periode ..... | 104 |
| 3.8.25 | Rancangan Tampilan Layar Pemesanan Lunas Per Tanggal ..... | 105 |
| 3.8.26 | Rancangan Tampilan Layar Pemesanan Masuk .....             | 106 |
| 3.8.27 | Rancangan Tampilan Layar Laporan Data Barang .....         | 107 |
| 3.8.28 | Rancangan Tampilan Layar Bukti Upload Pelanggan .....      | 108 |
| 4.1    | Implementasi Sistem.....                                   | 109 |
| 4.2    | Perangkat Pengujian .....                                  | 109 |
| 4.2.1  | Perangkat Keras.....                                       | 109 |
| 4.2.2  | Perangkat Lunak .....                                      | 109 |
| 4.3    | Tampilan Antar Muka Sistem .....                           | 109 |
| 4.4    | Skenario Pengujian.....                                    | 120 |
| 4.4.1  | Analisa Hasil Pengujian .....                              | 124 |
| BAB V  | PENUTUP.....   | 126 |
| 5.1    | KESIMPULAN .....   | 126 |
| 5.2    | SARAN.....   | 126 |
|        | DAFTAR PUSTAKA .....                                       | 127 |