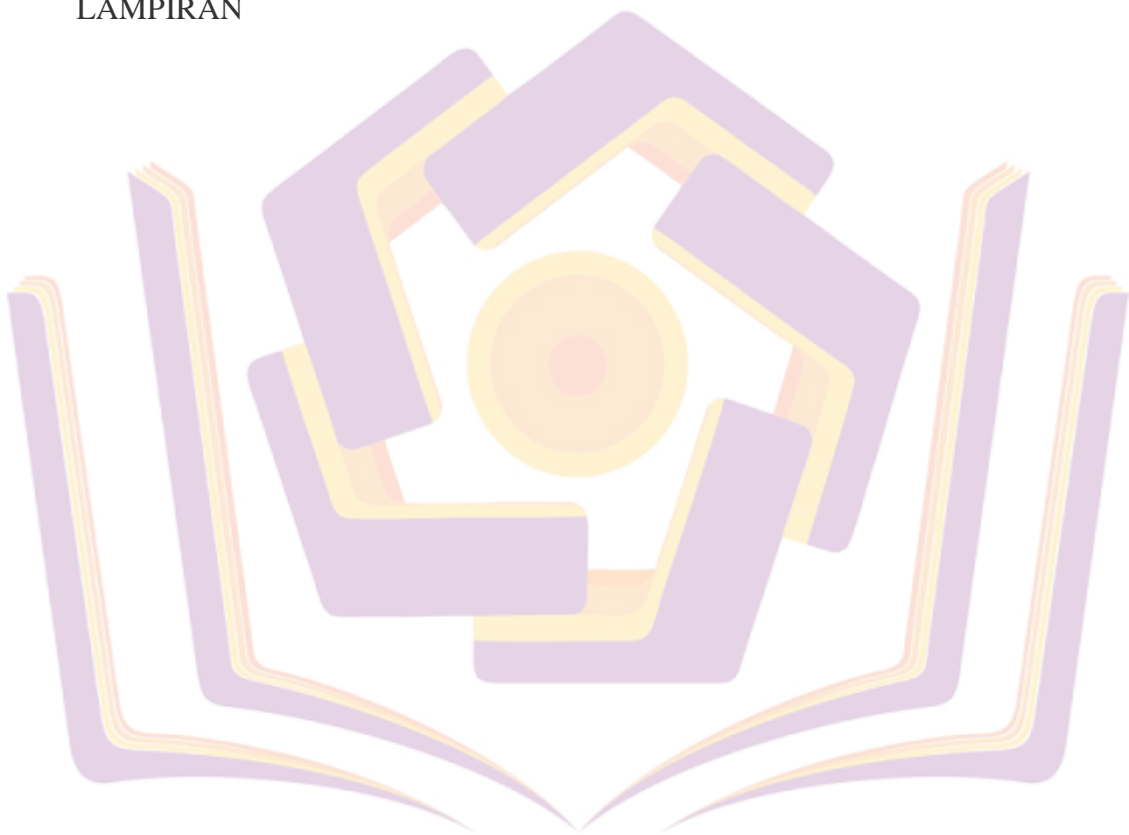


## DAFTAR ISI

|   |       |
|---|-------|
| HALAMAN SAMBUTAN .....                            | i     |
| HALAMAN JUDUL.....                                | ii    |
| HALAMAN PERSETUJUAN.....                          | iii   |
| HALAMAN PENGESAHAN.....                           | iv    |
| HALAMAN SURAT PERNYATAAN KEASLIAN PENELITIAN..... | v     |
| HALAMAN MOTTO .....                               | vi    |
| HALAMAN PERSEMBAHAN .....                         | vii   |
| KATA PENGANTAR .....                              | viii  |
| DAFTAR ISI.....                                   | x     |
| DAFTAR TABEL.....                                 | xiii  |
| DAFTAR GAMBAR .....                               | xiv   |
| DAFTAR LAMPIRAN.....                              | xvii  |
| RINGKASAN .....                                   | xviii |
| <i>ABSTRACT</i> .....                             | xix   |
| BAB I      PENDAHULUAN                            |       |
| A. Latar Belakang Masalah.....                    | 1     |
| B. Rumusan Masalah .....                          | 7     |
| C. Batasan Masalah.....                           | 7     |
| D. Tujuan Penelitian .....                        | 8     |
| E. Manfaat Penelitian .....                       | 9     |
| BAB II      TINJAUAN PUSTAKA                      |       |
| A. Landasan Teori .....                           | 10    |
| 1. Pengertian Aplikasi .....                      | 10    |
| 2. Pengertian Data .....                          | 11    |
| 3. Pengertian Pengelolaan .....                   | 11    |
| 4. Pengertian Bengkel Motor .....                 | 12    |
| 5. Pengertian <i>Sparepart</i> .....              | 13    |
| 6. Pengertian <i>Service</i> .....                | 13    |

|                |   |    |
|----------------|---|----|
|                | 7. Teknologi SMS Gateway .....                        | 14 |
|                | a. Pengertian Teknologi .....                         | 14 |
|                | b. Pengertian SMS Gateway .....                       | 14 |
|                | c. SMSC ( <i>Short Message Service Center</i> ) ..... | 15 |
|                | d. Gammu .....  | 15 |
|                | 8. Pengertian Website .....                           | 16 |
|                | 9. Framework Codeigniter .....                        | 18 |
|                | a. Definisi Framework .....                           | 18 |
|                | b. Definisi Codeigniter .....                         | 18 |
|                | 10. Pengertian PHP .....                              | 22 |
|                | 11. Pengertian Database .....                         | 23 |
|                | 12. UML ( <i>Unified Modeling Language</i> ) .....    | 24 |
|                | 13. Metode Waterfall .....                            | 31 |
|                | 14. Pengertian Blackbox Testing .....                 | 33 |
|                | 15. Perangkat Lunak Yang Digunakan .....              | 33 |
|                | B. Penelitian Sebelumnya .....                        | 36 |
| <b>BAB III</b> | <b>METODE PENELITIAN</b>                              |    |
|                | A. Tempat dan Waktu Penelitian .....                  | 45 |
|                | B. Metode Pengumpulan Data .....                      | 45 |
|                | 1. Wawancara .....                                    | 45 |
|                | 2. Dokumentasi .....                                  | 46 |
|                | 3. Studi Pustaka .....                                | 46 |
|                | C. Alat dan Bahan Penelitian .....                    | 47 |
|                | D. Konsep Penelitian .....                            | 49 |
|                | 1. Kerangka Berpikir .....                            | 49 |
|                | 2. Metode Pengembangan Sistem .....                   | 51 |
| <b>BAB IV</b>  | <b>HASIL DAN PEMBAHASAN</b>                           |    |
|                | A. Analisis Hasil .....                               | 53 |
|                | 1. Analisis .....                                     | 53 |
|                | 2. Desain .....                                       | 57 |
|                | 3. Pengkodean .....                                   | 83 |

|   |     |
|---|-----|
| 4. Pengujian .....                            | 94  |
| a. <i>Blackbox Testing</i> .....              | 94  |
| b. <i>User Acceptance Testing (UAT)</i> ..... | 100 |
| <b>BAB V</b> <b>PENUTUP</b>                   |     |
| A. Kesimpulan .....                           | 105 |
| B. Saran .....                                | 106 |
| <b>DAFTAR PUSTAKA</b>                         |     |
| <b>LAMPIRAN</b>                               |     |



## DAFTAR TABEL

|  |     |
|--|-----|
| Tabel 1.1 Perkembangan Jumlah Kendaraan Sepeda Motor.....                    | 2   |
| Tabel 1.2 Distribusi Motor Dalam Negeri .....                                | 3   |
| Tabel 1.3 Data Pencatatan Kurang Akurat.....                                 | 5   |
| Tabel 2.1 Simbol <i>Use Case Diagram</i> .....                               | 25  |
| Tabel 2.2 Simbol <i>Activity Diagram</i> .....                               | 27  |
| Tabel 2.3 Simbol <i>Sequence Diagram</i> .....                               | 29  |
| Tabel 2.4 Simbol <i>Class Diagram</i> .....                                  | 31  |
| Tabel 2.5 Perbandingan Dengan Penelitian Sebelumnya .....                    | 42  |
| Tabel 4.1 Pengujian <i>Login</i> .....                                       | 95  |
| Tabel 4.2 Pengujian Menu <i>Sparepart</i> .....                              | 95  |
| Tabel 4.3 Pengujian Menu Transaksi.....                                      | 97  |
| Tabel 4.4 Pengujian Menu Bayar.....  | 98  |
| Tabel 4.5 Pengujian Menu <i>View Data Transaksi</i> .....                    | 98  |
| Tabel 4.6 Pengujian Cetak Laporan Data Transaksi .....                       | 98  |
| Tabel 4.7 Pengujian Kirim SMS .....  | 99  |
| Tabel 4.8 Pengujian <i>Setting Tarif</i> .....                               | 99  |
| Tabel 4.9 Hasil Pengujian Kuesioner Terhadap Aplikasi .....                  | 101 |
| Tabel 4.10 Hasil Perhitungan Pengujian Menggunakan Skala <i>Likert</i> ..... | 103 |

## DAFTAR GAMBAR

|   |    |
|---|----|
| Gambar 2.1 Arsitektur Konsep MVC .....                              | 22 |
| Gambar 2.2 Model Metode <i>Waterfall</i> .....                      | 32 |
| Gambar 2.3 Tampilan Aplikasi XAMPP .....                            | 34 |
| Gambar 3.1 Kerangka Berpikir .....                                  | 48 |
| Gambar 4.1 <i>Use Case Diagram</i> Aplikasi Bengkel Maju Motor..... | 57 |
| Gambar 4.2 <i>Activity Diagram</i> Login.....                       | 58 |
| Gambar 4.3 <i>Activity Diagram</i> Tambah <i>Sparepart</i> .....    | 59 |
| Gambar 4.4 <i>Activity Diagram</i> Edit <i>Sparepart</i> .....      | 60 |
| Gambar 4.5 <i>Activity Diagram</i> Hapus <i>Sparepart</i> .....     | 61 |
| Gambar 4.6 <i>Activity Diagram</i> Transaksi <i>Sparepart</i> ..... | 62 |
| Gambar 4.7 <i>Activity Diagram</i> Transaksi <i>Service</i> .....   | 63 |
| Gambar 4.8 <i>Activity Diagram</i> Kelola Pembayaran.....           | 64 |
| Gambar 4.9 <i>Activity Diagram</i> View Data Transaksi .....        | 65 |
| Gambar 4.10 <i>Activity Diagram</i> Cetak Laporan .....             | 65 |
| Gambar 4.11 <i>Activity Diagram</i> Kelola <i>Phonebook</i> .....   | 66 |
| Gambar 4.12 <i>Activity Diagram</i> Kirim SMS.....                  | 67 |
| Gambar 4.13 <i>Activity Diagram</i> Kelola <i>Template</i> SMS..... | 68 |
| Gambar 4.14 <i>Activity Diagram</i> Setting Tarif .....             | 69 |
| Gambar 4.15 <i>Sequence Diagram</i> Login.....                      | 69 |
| Gambar 4.16 <i>Sequence Diagram</i> Kelola <i>Sparepart</i> .....   | 70 |
| Gambar 4.17 <i>Sequence Diagram</i> Kelola Transaksi .....          | 71 |
| Gambar 4.18 <i>Sequence Diagram</i> Kelola Pembayaran.....          | 72 |
| Gambar 4.19 <i>Sequence Diagram</i> View Data Transaksi .....       | 73 |
| Gambar 4.20 <i>Sequence Diagram</i> Cetak Laporan.....              | 73 |
| Gambar 4.21 <i>Sequence Diagram</i> Kirim SMS.....                  | 74 |
| Gambar 4.22 <i>Sequence Diagram</i> Atur Tarif <i>Service</i> ..... | 75 |
| Gambar 4.23 <i>Class Diagram</i> Aplikasi Bengkel Maju Motor .....  | 76 |
| Gambar 4.24 Desain Halaman <i>Login</i> .....                       | 77 |
| Gambar 4.25 Desain Halaman <i>Home</i> .....                        | 77 |

|   |    |
|---|----|
| Gambar 4.26 Desain Halaman <i>Sparepart</i> .....           | 78 |
| Gambar 4.27 Desain Halaman Transaksi.....                   | 78 |
| Gambar 4.28 Desain Halaman Bayar.....                       | 79 |
| Gambar 4.29 Desain Desain Tampilan Nota Transaksi.....      | 79 |
| Gambar 4.30 Desain Halaman <i>View</i> Data Transaksi ..... | 80 |
| Gambar 4.31 Desain Halaman Menu Cetak Lapoan.....           | 80 |
| Gambar 4.32 Desain Tampilan Laporan Transaksi.....          | 81 |
| Gambar 4.33 Desan Halaman Tambah Kontak Telepon .....       | 81 |
| Gambar 4.34 Desan Halaman Kirim SMS.....                    | 82 |
| Gambar 4.35 Desain Halaman <i>Template</i> SMS .....        | 82 |
| Gambar 4.36 Desan Halaman Atur Tarif <i>Service</i> .....   | 83 |
| Gambar 4.37 Struktur Tabel <i>Admin</i> .....               | 83 |
| Gambar 4.38 Struktur Tabel Data Pembeli.....                | 84 |
| Gambar 4.39 Struktur Tabel <i>Sparepart</i> .....           | 84 |
| Gambar 4.40 Struktur Tabel Nota.....                        | 85 |
| Gambar 4.41 Struktur Tabel Data <i>Service</i> .....        | 85 |
| Gambar 4.42 Struktur Tabel <i>Kategori Service</i> .....    | 85 |
| Gambar 4.43 Struktur Tabel Tarif <i>Service</i> .....       | 86 |
| Gambar 4.44 Struktur Tabel <i>Phonebook</i> .....           | 86 |
| Gambar 4.45 Struktur Tabel Grup Kontak.....                 | 86 |
| Gambar 4.46 Struktur Tabel Gammu.....                       | 86 |
| Gambar 4.47 Struktur Tabel <i>Schedule</i> SMS .....        | 87 |
| Gambar 4.48 Struktur Tabel <i>Template</i> SMS.....         | 87 |
| Gambar 4.49 Tampilan <i>Login</i> .....                     | 87 |
| Gambar 4.50 Tampilan <i>Home</i> .....                      | 88 |
| Gambar 4.51 Tampilan Menu <i>Sparepart</i> .....            | 88 |
| Gambar 4.52 Tampilan Menu Pendataan Transaksi .....         | 89 |
| Gambar 4.53 Tampilan Input Komponen <i>Sparepart</i> .....  | 89 |
| Gambar 4.54 Tampilan Nota Transaksi .....                   | 90 |
| Gambar 4.55 Tampilan Menu Bayar.....                        | 90 |
| Gambar 4.56 Tampilan Menu Semua Data Transaksi .....        | 91 |

|   |    |
|---|----|
| Gambar 4.57 Tampilan Menu Cetak Laporan.....                        | 91 |
| Gambar 4.58 Tampilan Laporan Transaksi.....                         | 92 |
| Gambar 4.59 Tampilan Menu Kontak.Telepon .....                      | 92 |
| Gambar 4.60 Tampilan Menu Kirim SMS.....                            | 93 |
| Gambar 4.61 Tampilan Menu <i>Template</i> SMS .....                 | 93 |
| Gambar 4.62 Tampilan Menu <i>Setting</i> Tarif <i>Service</i> ..... | 94 |



## DAFTAR LAMPIRAN

- Lampiran 1. Dokumentasi
- Lampiran 2. Kartu Bimbingan Skripsi
- Lampiran 3. Buku Pencatatan Transaksi
- Lampiran 4. Hasil Pengujian

