DAFTAR ISI

Halaman

HALAMAN JUDUL................................................................. i
HALAMAN PERSETUJUAN .................................................. ii
HALAMAN PENGESAHAN .................................................. iii
HALAMAN MOTTO.............................................................. iv
HALAMAN PERSEMBAHAN .................................................. v
KATA PENGANTAR ............................................................ vi
INTISARI ............................................................................ viii
DAFTAR ISI ................................................................. ix
DAFTAR GAMBAR ............................................................ xii
DAFTAR TABEL ............................................................. xiii

BAB I PENDAHULUAN......................................................... 1
  1.1 Latar Belakang Masalah ................................................. 1
  1.2 Rumusan Masalah ........................................................ 4
  1.3 Ruang Lingkup ............................................................. 4
  1.4 Tujuan Penelitian ......................................................... 5

BAB II TINJAUAN PUSTAKA DAN DASAR TEORI .......... 6
  2.1 Tinjauan Pustaka .......................................................... 6
  2.2 Dasar Teori ................................................................. 7
BAB III ANALISIS DAN PERANCANGAN SISTEM .......... 13

3.1 Analisis Sistem .................................................. 13

3.1.1 Analisis Kebutuhan Fungsional Sistem .... 14

3.1.2 Analisis Kebutuhan Non Fungsional Sistem

................................................................. 14

3.2 Perancangan Sistem ............................................. 15

3.2.1 Unified Modeling Sistem (UML) ............ 16

3.2.2 Perancangan Tampilan ................................. 21

3.2.3 Arsitektur Komunikasi ................................. 25

BAB IV IMPLEMENTASI DAN PEMBAHASAN SISTEM .... 27

4.1 Implementasi Sistem ................................. 27

4.1.1 Koneksi Database ................................. 27

4.1.2 Notifikasi Status Gangguan ....................... 27
4.1.3  Menu Pencarian Lokasi Gangguan .......... 28
4.1.4  Menu Informasi Posisi Teknisi ................. 29

4.2  Pembahasan Sistem ........................................ 30
  4.2.1  Halaman Login ............................................ 30
  4.2.2  Menu Utama ............................................... 31
  4.2.3  Menu Notifikasi Status Gangguan .............. 32
  4.2.4  Menu Pencarian Lokasi Gangguan ............. 32
  4.2.5  Menu Informasi Posisi Teknisi ................. 33
  4.2.6  Menu Input Troubleshoot Gangguan .......... 34
  4.2.7  Menu About ............................................. 34
  4.2.8  Hasil Pengujian Aplikasi ......................... 35
  4.2.9  Respon Pengguna Aplikasi ......................... 36

BAB V  KESIMPULAN DAN SARAN................................. 37
  5.1  Kesimpulan ................................................ 37
  5.2  Saran ...................................................... 38

DAFTAR PUSTAKA ..................................................... 39

LAMPIRAN
DAFTAR GAMBAR

Halaman

Gambar 3.1 Use Case Diagram ........................................... 16
Gambar 3.2 Activity Diagram Detail Gangguan dan Rute Lokasi .............................................................. 18
Gambar 3.3 Activity Diagram Notifikasi Gangguan .......... 19
Gambar 3.4 Activity Diagram Posisi Teknisi ......................... 19
Gambar 3.5 Activity Diagram Input Data Troubleshoot ...... 20
Gambar 3.6 Class Diagram..................................................... 21
Gambar 3.7 Rancangan Tampilan........................................... 23
Gambar 3.8 Arsitektur Komunikasi Sistem Keseluruhan ...... 25
Gambar 3.9 Arsitektur Komunikasi Sistem Yang Dibangun ... 26
Gambar 4.1 Halaman Login..................................................... 31
Gambar 4.2 Halaman Menu Utama................................. 31
Gambar 4.3 Notifikasi Status Gangguan......................... 32
Gambar 4.4 Pencarian Lokasi Gangguan ......................... 33
Gambar 4.5 Informasi Posisi Teknisi......................... 33
Gambar 4.6 Input Troubleshoot Gangguan ................ 34
Gambar 4.7 Menu About .................................................. 35
DAFTAR TABEL

Tabel 4.1 Tabel Hasil Pengujian Aplikasi ............................. 35
Tabel 4.2 Tabel Respon Pengguna Aplikasi ............................ 36