

DAFTAR ISI

| | |
|--------------------------------------------------------|-----|
| KATA PENGANTAR..... | i |
| ABSTRAK..... | ii |
| ABSTRACT..... | iii |
| DAFTAR ISI..... | iv |
| DAFTAR GAMBAR..... | vii |
| DAFTAR TABEL | x |
| DAFTAR LAMPIRAN | xii |
| BAB 1 PENDAHULUAN..... | 1 |
| 1.1 Latar Belakang | 1 |
| 1.2 Rumusan Masalah | 3 |
| 1.3 Tujuan | 3 |
| 1.4 Batasan Masalah..... | 4 |
| 1.5 Definisi Operasional..... | 4 |
| 1.6 Metode Pengerjaan | 5 |
| 1.7 Jadwal Pengerjaan | 7 |
| BAB 2 TINJAUAN PUSTAKA | 8 |
| 2.1 Profil Perusahaan Buana Karya Wiratama (BKW) | 8 |
| 2.2 Aplikasi Berbasis Web..... | 9 |
| 2.3 <i>Unified Modeling Language (UML)</i> | 9 |
| 2.3.1 <i>Class Diagram</i> | 9 |
| 2.3.2 <i>Use Case Diagram</i> | 10 |
| 2.3.3 <i>Sequence Diagram</i> | 11 |
| 2.3.4 <i>Activity Diagram</i> | 11 |
| 2.4 Perancangan Basis Data | 12 |

| | |
|-------------------------------------------------------------|----|
| 2.1.1 <i>Entity Relationship Diagram (ERD)</i> | 13 |
| 2.5 <i>Business Process Model and Notation (BPMN)</i> | 13 |
| 2.6 <i>Tools Desain</i> | 14 |
| 2.6.1 <i>Hyper Text Markup Language (HTML)</i> | 14 |
| 2.6.2 <i>Cascading Style Sheet (CSS)</i> | 14 |
| 2.6.3 <i>Javascript</i> | 14 |
| 2.7 <i>Tools Programming</i> | 15 |
| 2.7.1 <i>Framework Codeigniter</i> | 15 |
| 2.7.2 XAMPP | 15 |
| 2.7.3 <i>My Structured Query Language (MySQL)</i> | 15 |
| 2.7.4 <i>Personal Hypertext Preprocessor (PHP)</i> | 15 |
| 2.8 <i>Tools Testing</i> | 16 |
| 2.8.1 <i>Black Box Testing</i> | 16 |
| 2.8.2 <i>User Acceptance Test</i> | 17 |
| 2.9 <i>SMS Gateway</i> | 17 |
| BAB 3 ANALISIS DAN PERANCANGAN | 18 |
| 3.1 Sistem Analisis dan Perbandingan Sistem..... | 18 |
| 3.1.1 Gambaran Sistem Saat Ini | 18 |
| 3.1.2 Gambaran Sistem Yang Diusulkan..... | 27 |
| 3.1.3 Analisis Perbandingan Sistem..... | 36 |
| 3.2 Perancangan Sistem..... | 38 |
| 3.2.1 <i>Diagram Use Case</i> | 38 |
| 3.2.2 Deskripsi Aktor | 39 |
| 3.2.3 Deskripsi <i>Use Case</i> | 39 |
| 3.2.4 <i>Diagram Activity</i> | 42 |
| 3.2.5 <i>Entity Relationship Diagram (ERD)</i> | 54 |
| 3.2.6 Skema Relasi..... | 55 |
| 3.2.7 Struktur Tabel..... | 56 |
| 3.2.8 <i>Class Diagram</i> | 60 |
| 3.2.9 <i>Sequence Diagram</i> | 61 |
| 3.2.10 Kebutuhan Perangkat Keras dan Perangkat Lunak | 77 |

| | |
|---------------------------------------------------|-----|
| 3.2.11 <i>Mockup Aplikasi</i> | 79 |
| BAB 4 IMPLEMENTASI DAN PENGUJIAN | 90 |
| 4.1 Implementasi..... | 90 |
| 4.1.1 Implementasi Sistem | 90 |
| 4.1.2 Implementasi Aplikasi | 91 |
| 4.2 Pengujian | 97 |
| 4.2.1 Pengujian <i>Black Box Testing</i> | 97 |
| 4.2.2 Pengujian <i>User Acceptance Test</i> | 118 |
| BAB 5 PENUTUP | 122 |
| 5.1 Kesimpulan | 122 |
| 5.2 Saran | 122 |
| DAFTAR PUSTAKA | 123 |
| LAMPIRAN | 124 |