

ABSTRAKSI

Maraknya pengguna seluler di jaman ini menyebabkan peningkatan transaksi pembelian dan penjualan pulsa yang cukup besar. Sayangnya masing-masing provider jaringan memiliki alat jual pulsa mereka masing-masing sehingga para retailer pulsa harus memiliki seluruh alat jual provider jaringan untuk dapat menjual pulsa kepada konsumen. Untuk itu dibuatlah aplikasi penjualan pulsa dan sistem pelelangan menggunakan *SMS Gateway* guna mempermudah para penjual pulsa dalam menjual seluruh produk pulsa dari provider jaringan. Dalam system ini ditambahkan juga fitur pelelangan yang menjadi daya tarik konsumen untuk bisa bergabung pada server pulsa ini.

Kata kunci : Aplikasi penjualan pulsa, sistem pelelangan, *SMS Gateway*

ABSTRACT

The bigger of the cellular user, the bigger the recharge needs for prepaid chip. Unfortunately each of network provider has their own way to sell their credit of rechargement. So if the reseller wants to sell the credit of rechargement, they need to own each of provider network chip for selling the credit and it cost more money to run it. But now there's a Credit Rechargement Software and Auction System which is facilitating the reseller that they can easily selling the provider network credit of rechargement. This software is featured with auction system which can be a value added for reseller to use this software.

Keyword : *Credit Rechargement Software, Auction System, SMS Gateway*

DAFTAR ISI

LEMBAR PENGESAHAN.....	i
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN.....	ii
PERNYATAAN ORISINALITAS LAPORAN PENELITIAN.....	iii
PRAKATA.....	iv
ABSTRAKSI.....	vi
ABSTRACT.....	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR.....	x
DAFTAR TABEL.....	xii
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang Masalah.....	1
1.2 Rumusan Masalah.....	1
1.3 Tujuan Pembahasan.....	2
1.4 Ruang Lingkup Kajian.....	2
1.5 Sumber Data.....	3
1.6 Sistematika Penyajian.....	3
BAB II KAJIAN TEORI.....	5
2.1 Definisi Sistem.....	5
2.2 Definisi Informasi.....	5
2.3 Definisi Sistem Informasi.....	6
2.4 Bahasa Pemrograman Java.....	6
2.4.1 <i>Java Virtual Machine (JVM)</i>	7
2.4.2 <i>Java Development Kit (JDK)</i>	7
2.4.3 <i>Java Database Connectivity (JDBC)</i>	7
2.4.4 Atribut.....	9
2.4.5 Pewarisan.....	10
2.4.6 <i>Abstract</i>	11
2.4.7 Kontruktor.....	11
2.4.8 <i>Pakage</i>	12
2.5 <i>Unified Modeling Language (UML)</i>	12
2.6 <i>Activity Diagram</i>	12
2.6.1 <i>Komponen Activity Diagram</i>	14
2.7 <i>Class Diagram</i>	16
2.8 <i>Database</i>	17
2.9 <i>Entity Relationship Diagram (ERD)</i>	18
2.9.1 <i>Komponen ERD</i>	18
2.10 <i>MySQL</i>	20
2.10.1 <i>SQL</i>	22
2.11 <i>Flowchart</i>	24
BAB III ANALISIS DAN PERANCANGAN.....	26
3.1 <i>Pemodelan Sistem SMS Gateway</i>	26
3.2 <i>Flowchart</i>	27
3.2.1 <i>Flowchart Pembelian Pulsa</i>	28
3.2.2 <i>Flowchart Transaksi Penambahan Deposit</i>	29
3.3 <i>Unified Markup Language (UML)</i>	30
3.3.1 <i>Use Case Diagram</i>	30

3.3.2	<i>Activity Diagram</i>	32
3.4	<i>Entity Relationship Diagram (ERD)</i>	51
3.5	<i>User Interface Design</i>	53
3.5.1	Menu Utama.....	53
3.5.2	<i>Manage Produk</i>	53
3.5.3	<i>Manage Customer</i>	55
3.5.4	<i>Manage SMS</i>	56
3.5.5	<i>Device</i>	57
3.5.6	Transaksi.....	58
3.5.7	<i>Manage Lelang</i>	59
BAB IV PERANCANGAN DAN HASIL PENELITIAN		60
4.1	Halaman Menu Utama.....	60
4.2	Halaman <i>Manage Produk</i>	61
4.3	Halaman <i>Manage Customer</i>	62
4.4	Halaman <i>Manage SMS</i>	63
4.5	Halaman <i>Device</i>	64
4.6	Halaman Transaksi.....	65
4.7	Halaman <i>Manage Lelang</i>	66
BAB V PEMBAHASAN DAN UJI COBA HASIL PENELITIAN		67
5.1	Pengujian.....	67
BAB VI SIMPULAN DAN SARAN		72
6.1	Simpulan.....	72
6.2	Saran.....	72
DAFTAR PUSTAKA.....		xiii
RIWAYAT HIDUP PENULIS		xiv

DAFTAR GAMBAR

Gambar II.1 <i>Activity Diagram</i> (http://ayumi-sonia.blogspot.com ,2009)	13
Gambar II.2 <i>Nodes – Start Activity</i>	14
Gambar II.3 <i>Nodes – End Activity</i>	14
Gambar II.4 <i>Activity</i>	14
Gambar II.5 <i>Flow/edge</i>	15
Gambar II.6 <i>Fork</i>	15
Gambar II.7 <i>Join</i>	15
Gambar II.8 <i>Decision</i>	16
Gambar II.9 <i>Merge</i>	16
Gambar II.10 <i>Class Diagram</i> (http://docs.huihoo.com ,2007)	17
Gambar II.11 <i>Entitas</i>	18
Gambar II.12 <i>Atribut</i>	18
Gambar II.13 <i>Relasi</i>	19
Gambar II.14 <i>One to one</i>	19
Gambar II.15 <i>One to many</i>	19
Gambar II.16 <i>Many to one</i>	20
Gambar II.17 <i>Many to many</i>	20
Gambar II.18 <i>PHP MyAdmin</i>	21
Gambar III.1 <i>Flowchart</i>	27
Gambar III.2 <i>Flowchart Pembelian Pulsa Client</i>	28
Gambar III.3 <i>Flowchart Transaksi Penambahan Deposit</i>	29
Gambar III.4 <i>Use Case Diagram</i>	31
Gambar III.5 <i>Activity Diagram Input Produk</i>	32
Gambar III.6 <i>Activity Diagram Update Produk</i>	34
Gambar III.6 <i>Activity Diagram Delete Produk</i>	35
Gambar III.7 <i>Activity Diagram Input Customer</i>	37
Gambar III.8 <i>Activity Diagram Update Customer</i>	39
Gambar III.9 <i>Activity Diagram Delete Customer</i>	40
Gambar III.10 <i>Activity Diagram Search SMS Masuk</i>	42
Gambar III.11 <i>Activity Diagram Search SMS Keluar</i>	43
Gambar III.12 <i>Activity Diagram Delete SMS Masuk</i>	44
Gambar III.13 <i>Activity Diagram Search Transaksi</i>	45
Gambar III.14 <i>Activity Diagram Cek Saldo</i>	46
Gambar III.15 <i>Activity Diagram Tambah Deposit</i>	47
Gambar III.16 <i>Activity Diagram Pembelian Pulsa</i>	48
Gambar III.17 <i>Activity Diagram Input Lelang</i>	50
Gambar III.18 <i>ER Diagram</i>	52
Gambar III.19 <i>Menu Utama</i>	53
Gambar III.20 <i>Manage Produk</i>	54
Gambar III.21 <i>Manage Customer</i>	55
Gambar III.22 <i>Manage SMS Masuk</i>	56
Gambar III.23 <i>Manage SMS Keluar</i>	56
Gambar III.24 <i>Device</i>	57
Gambar III.25 <i>Transaksi</i>	58
Gambar III.27 <i>Manage Lelang</i>	59
Gambar IV.1 <i>Halaman Menu Utama</i>	60
Gambar IV.2 <i>Halaman Manage Produk</i>	61
Gambar IV.3 <i>Halaman Manage Customer</i>	62

Gambar IV.4 Halaman <i>Manage SMS</i>	63
Gambar IV.5 Halaman <i>Device</i>	64
Gambar IV.6 Halaman Transaksi	65
Gambar IV.7 Halaman <i>Manage Lelang</i>	66

DAFTAR TABEL

Tabel I Simbol <i>Flowchart</i>	25
Tabel II Hasil Pengujian	67