ABSTRAK


Kata Kunci: Anugerah Glass Accessories, aplikasi
ABSTRACT

Anugerah Glass Accessories is company engaged in the field of glass and focused on the sale of accessories. To offer and perform data refineries, the company is quite difficult because of the activities carried out are still manual. To make it easier then made an application created website. Source of research data consists of primary and secondary data sources. Secondary data obtained from related books, while the primary data obtained from observation and interviews directly to the place and poured into a business process that is written in narrative form and a model flowchart. The proceed with the design phase of the data using the model Entity Relationship Diagram (ERD), Data Flow Diagram (DFD), Specification (PSPEC), and data dictionary. Then made an application interface design, application implementation and testing of application that have been created. Application testing using the blackbox method.

Keywords: Anugerah Glass Accessories, application.
DAFTAR ISI

LEMBAR PENGESAHAN ........................................................................................................ i
PERNYATAAN ORISINALITAS LAPORAN PENELITIAN ................................................. ii
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN ...................................................... iii
PRAKATA .......................................................................................................................... iv
ABSTRAK ..................................................................................................................................... v
ABSTRACT ...................................................................................................................................... vi
DAFTAR ISI ........................................................................................................................ vii
DAFTAR GAMBAR ................................................................................................................. xi
DAFTAR TABEL .................................................................................................................. xiii
DAFTAR NOTASI/ LAMBANG ...................................................................................... xvi
DAFTAR SINGKATAN .................................................................................................... xix

BAB 1. PENDAHULUAN ................................................................................................. 1
   1.1 Latar Belakang Masalah .......................................................................................... 1
   1.2 Rumusan Masalah ............................................................................................... 2
   1.3 Tujuan Pembahasan .......................................................................................... 2
   1.4 Ruang Lingkup Kajian ..................................................................................... 2
   1.5 Sumber Data ........................................................................................................ 3
   1.6 Sistematika Penyajian ....................................................................................... 4

BAB 2. KAJIAN TEORI .................................................................................................... 5
   2.1 Sistem Informasi ..................................................................................................... 5
   2.2 Pengertian E-Commerce ..................................................................................... 5
   2.3 Customer Relationship Management (CRM) ..................................................... 7
       2.3.1 Analytical CRM ......................................................................................... 7
       2.3.2 Pipeline Management ................................................................................. 8
   2.4 Sistem Tracking .................................................................................................... 8
       2.4.1 Tracking Email ............................................................................................ 9
       2.4.2 Tracking Website ....................................................................................... 9
   2.5 ERD (Entity Relationship Diagram) ................................................................. 9
       2.5.1 Entity ........................................................................................................ 10
       2.5.2 Attributes ................................................................................................. 10
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5.3  Relationships</td>
<td>10</td>
</tr>
<tr>
<td>2.6  Flowchart</td>
<td>11</td>
</tr>
<tr>
<td>2.6.1  Flowchart Dokumen</td>
<td>11</td>
</tr>
<tr>
<td>2.7  DFD (Data Flow Diagram)</td>
<td>11</td>
</tr>
<tr>
<td>2.8  HTML (Hyper Text Markup Language)</td>
<td>13</td>
</tr>
<tr>
<td>2.9  PHP (Hypertext Preprocessor)</td>
<td>13</td>
</tr>
<tr>
<td>2.10  MySQL (phpMyAdmin)</td>
<td>14</td>
</tr>
<tr>
<td>2.11  Blackbox Testing</td>
<td>14</td>
</tr>
<tr>
<td>BAB 3. ANALISIS DAN RANCANGAN SISTEM</td>
<td>16</td>
</tr>
<tr>
<td>3.1  Profil Perusahaan</td>
<td>16</td>
</tr>
<tr>
<td>3.2  Proses Bisnis</td>
<td>16</td>
</tr>
<tr>
<td>3.2.1  Proses Bisnis Pembelian Barang</td>
<td>16</td>
</tr>
<tr>
<td>3.2.2  Proses Bisnis Penjualan Barang</td>
<td>19</td>
</tr>
<tr>
<td>3.3  Entity Relationship Diagram (ERD)</td>
<td>21</td>
</tr>
<tr>
<td>3.4  Transformasi ERD ke dalam Tabel</td>
<td>22</td>
</tr>
<tr>
<td>3.5  Data flow diagram (DFD)</td>
<td>27</td>
</tr>
<tr>
<td>3.5.1  Diagram Level 1</td>
<td>27</td>
</tr>
<tr>
<td>3.5.2  Diagram Level 2 Proses 4</td>
<td>29</td>
</tr>
<tr>
<td>3.5.3  Diagram Level 2 Proses 5</td>
<td>29</td>
</tr>
<tr>
<td>3.5.4  Diagram Level 3 Proses 5.3</td>
<td>30</td>
</tr>
<tr>
<td>3.5.5  Diagram Level 2 Proses 6</td>
<td>31</td>
</tr>
<tr>
<td>3.5.6  Diagram Level 3 Proses 6.4</td>
<td>31</td>
</tr>
<tr>
<td>3.6  PSPEC</td>
<td>32</td>
</tr>
<tr>
<td>3.7  Kamus Data</td>
<td>42</td>
</tr>
<tr>
<td>3.8  Rancangan Desain Antarmuka</td>
<td>51</td>
</tr>
<tr>
<td>3.8.1  Rancangan Untuk Admin</td>
<td>51</td>
</tr>
<tr>
<td>3.8.2  Rancangan Utama Website</td>
<td>54</td>
</tr>
<tr>
<td>BAB 4. HASIL PENELITIAN</td>
<td>59</td>
</tr>
<tr>
<td>4.1  Tampilan Utama Admin</td>
<td>59</td>
</tr>
<tr>
<td>4.1.1  Tampilan Halaman Utama Admin</td>
<td>59</td>
</tr>
<tr>
<td>4.1.2  Tampilan Halaman Mengelola Supplier</td>
<td>60</td>
</tr>
<tr>
<td>4.1.3  Tampilan Halaman Add/Edit Supplier</td>
<td>60</td>
</tr>
</tbody>
</table>
4.1.4 Tampilan Halaman Mengelola Produk ...................................... 61
4.1.5 Tampilan Halaman Add/Edit Produk ........................................ 62
4.1.6 Tampilan Halaman Mengelola Jenis Produk ............................. 62
4.1.7 Tampilan Halaman Add/Edit Jenis Produk ............................. 63
4.1.8 Tampilan Halaman Mengelola Pembelian .................................. 64
4.1.9 Tampilan Halaman Mengelola Penjualan .................................. 65
4.1.10 Tampilan Halaman Laporan Transaksi .................................. 66
4.1.11 Tampilan Halaman Laporan Promo ....................................... 66
4.1.12 Tampilan Halaman Detail Member ......................................... 67
4.1.13 Tampilan Halaman Detail Produk .......................................... 68
4.2 Tampilan Utama Website ................................................................ 69
4.2.1 Tampilan Halaman Utama Website ........................................... 69
4.2.2 Tampilan Halaman Produk ........................................................ 69
4.2.3 Tampilan Halaman Cart ............................................................. 70
4.2.4 Tampilan Halaman Checkout ..................................................... 71
4.2.5 Tampilan Halaman Login ........................................................... 72
4.2.6 Tampilan Halaman Pendaftaran ................................................ 73
4.3 Tampilan Utama Member ............................................................. 74
4.3.1 Tampilan Halaman Utama Member ........................................... 74
4.3.2 Tampilan Halaman Pembayaran Member ................................. 75
BAB 5. PEMBAHASAN DAN UJI COBA HASIL PENELITIAN ................. 76
5.1 Pengujian Sistem Blackbox Sistem Login ....................................... 76
5.2 Pengujian Sistem Blackbox Sistem Pendaftaran ............................ 77
5.3 Pengujian Sistem Blackbox Sistem Add/Edit Supplier ................... 77
5.4 Pengujian Sistem Blackbox Add/Edit Produk ................................. 78
5.5 Pengujian Sistem Blackbox Add/Edit Jenis Produk ....................... 78
5.6 Pengujian Sistem Blackbox OrderPembelian ................................. 79
5.7 Pengujian Sistem BlackboxReport ................................................ 79
5.8 Pengujian Sistem Blackbox Pemesanan Barang ............................ 79
5.9 Pengujian Sistem Blackbox Cart Pembelian .................................. 80
5.10 Pengujian Sistem Blackbox Pembayaran ..................................... 80
BAB 6. SIMPULAN DAN SARAN .............................................................. 81
6.1  Simpulan .................................................................................................................. 81
6.2  Saran.......................................................................................................................... 81
DAFTAR PUSTAKA........................................................................................................... 82
DAFTAR GAMBAR

Gambar 3.1 Logo Perusahaan ................................................................. 16
Gambar 3.2 Flowchart Pembelian Barang ............................................. 18
Gambar 3.3 Flowchart Penjualan Barang ............................................ 20
Gambar 3.4 Entity Relationship Diagram ............................................. 21
Gambar 3.5 Diagram Level 0 ................................................................. 27
Gambar 3.6 Diagram Level 1 ................................................................. 28
Gambar 3.7 Diagram Level 2 Proses 4 .................................................... 29
Gambar 3.8 Diagram Level 2 Proses 5 .................................................... 30
Gambar 3.9 Diagram Level 3 Proses 5.3 ............................................... 30
Gambar 3.10 Diagram Level 2 Proses 6 .................................................. 31
Gambar 3.11 Diagram Level 3 Proses 6.4 ............................................... 32
Gambar 3.12 Halaman Utama Admin ...................................................... 51
Gambar 3.13 Halaman Menambah Supplier .......................................... 52
Gambar 3.14 Halaman Menambah Produk ............................................. 52
Gambar 3.15 Halaman Menambah JenisProduk ...................................... 53
Gambar 3.16 Halaman Menambah Transaksi Pembelian ....................... 53
Gambar 3.17 Halaman Untuk Laporan ................................................... 54
Gambar 3.18 Halaman Utama Website ................................................... 54
Gambar 3.19 Halaman Produk ............................................................... 55
Gambar 3.20 Halaman Detail Produk ..................................................... 55
Gambar 3.21 Halaman Cart ................................................................. 56
Gambar 3.22 Halaman CheckOut ........................................................... 56
Gambar 3.23 Halaman Login ............................................................... 57
Gambar 3.24 Halaman Pendaftaran ....................................................... 57
Gambar 3.25 Halaman Sesudah Login .................................................. 58
Gambar 3.26 Halaman Pembayaran ...................................................... 58
Gambar 4.1 Halaman Utama Admin ....................................................... 59
Gambar 4.2 Halaman Mengelola Supplier .......................................... 60
Gambar 4.3 Halaman Add/Edit Supplier ............................................ 60
Gambar 4.4 Halaman Mengelola Produk .............................................. 61
DAFTAR TABEL

Tabel 3.1 Tabel Member ................................................................. 22
Tabel 3.2 Tabel Supplier ................................................................. 22
Tabel 3.3 Tabel Produk ................................................................. 23
Tabel 3.4 Jenis Produk ................................................................. 23
Tabel 3.5 Tabel OrderPembelian ..................................................... 23
Tabel 3.6 Tabel DetailPembelian ..................................................... 24
Tabel 3.7 Tabel OrderPenjualan ..................................................... 24
Tabel 3.8 Tabel DetailPenjualan ..................................................... 24
Tabel 3.9 Tabel CRM ................................................................. 25
Tabel 3.10 Tabel CartHeader ......................................................... 25
Tabel 3.11 Tabel CartMember ......................................................... 25
Tabel 3.12 Tabel Temp_Buy .......................................................... 25
Tabel 3.13 Tabel Admin ............................................................... 26
Tabel 3.14 Tabel Promotion .......................................................... 26
Tabel 3.15 Tabel PromotionProduk ................................................ 26
Tabel 3.16 Tabel Temp_HPromotion ............................................. 26
Tabel 3.17 Tabel Temp_Promo ........................................................ 27
Tabel 3.18 PSPEC Pendaftaran ..................................................... 33
Tabel 3.19 PSPEC Login .............................................................. 33
Tabel 3.20 PSPEC Mengelola Member ......................................... 34
Tabel 3.21 PSPEC Menambah Supplier .......................................... 34
Tabel 3.22 PSPEC Edit Supplier ................................................... 35
Tabel 3.23 PSPEC Menambah Produk .......................................... 35
Tabel 3.24 PSPEC Edit Produk ....................................................... 36
Tabel 3.25 PSPEC Menambah Jenis Produk .................................... 36
Tabel 3.26 PSPEC Edit Jenis Produk ............................................. 37
Tabel 3.27 PSPEC Temporary Pembelian ...................................... 37
Tabel 3.28 PSPEC Delete TempBuy ............................................... 38
Tabel 3.29 PSPEC Menambah Pembelian ...................................... 38
Tabel 3.30 PSPEC Temporary Penjualan ....................................... 39
Tabel 3.31 PSPEC Delete Temporary ........................................................... 39
Tabel 3.32 PSPEC Edit Temporary ............................................................... 40
Tabel 3.33 PSPEC Menambah Penjualan .................................................... 40
Tabel 3.34 PSPEC Konfirmasi Pembayaran ................................................. 41
Tabel 3.35 PSPEC Mengelola Laporan ...................................................... 41
Tabel 3.36 PSPEC Pembayaran Member ..................................................... 42
Tabel 3.37 Kamus Data Member ................................................................... 42
Tabel 3.38 Kamus Data Supplier .................................................................. 43
Tabel 3.39 Kamus Data Produk .................................................................... 43
Tabel 3.40 Kamus Data JenisProduk ........................................................... 44
Tabel 3.41 Kamus Data OrderPembelian ..................................................... 45
Tabel 3.42 Kamus Data DetailPembelian ..................................................... 45
Tabel 3.43 Kamus Data OrderPenjualan ..................................................... 46
Tabel 3.44 Kamus Data DetailPenjualan ..................................................... 46
Tabel 3.45 Kamus Data CRM ........................................................................ 47
Tabel 3.46 Kamus Data CartHeader ............................................................. 47
Tabel 3.47 Kamus Data CartMember ............................................................ 48
Tabel 3.48 Kamus Data Temp_Buy .............................................................. 48
Tabel 3.49 Kamus Data Admin ..................................................................... 49
Tabel 3.50 Kamus Data Temp_HPromotion ................................................. 49
Tabel 3.51 Kamus Data Temp_Promo .......................................................... 50
Tabel 3.52 Kamus Data Promotion ............................................................... 50
Tabel 3.53 Kamus Data PromotionProduk ................................................... 51
Tabel 5.1 Pengujian Sistem Login ................................................................. 76
Tabel 5.2 Pengujian Sistem Pendaftaran ...................................................... 77
Tabel 5.3 Pengujian Sistem Add/Edit Supplier ............................................. 77
Tabel 5.4 Pengujian Sistem Add/Edit Produk ................................................. 78
Tabel 5.5 Pengujian Sistem Add/Edit Jenis Produk ....................................... 78
Tabel 5.6 Pengujian Sistem OrderPembelian ............................................... 79
Tabel 5.7 Pengujian Sistem Report ............................................................... 79
Tabel 5.8 Pengujian Sistem Pemesanan Barang .......................................... 79
Tabel 5.9 Pengujian Sistem Cart Pembelian .................................................. 80
Tabel 5.10 Pengujian Sistem Pembayaran

Universitas Kristen Maranatha
<table>
<thead>
<tr>
<th>Jenis</th>
<th>Notasi/Lambang</th>
<th>Nama</th>
<th>Arti</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERD</td>
<td></td>
<td>Entitas</td>
<td>Sebuah objek yang dapat mewakili sesuatu yang dapat diidentifikasi dan dapat dibedakan</td>
</tr>
<tr>
<td>ERD</td>
<td></td>
<td>Atribut</td>
<td>Mendeskripsikan karakter entitas</td>
</tr>
<tr>
<td>ERD</td>
<td></td>
<td>Garis</td>
<td>Penghubung antara entitas dan relasi ataupun sebaliknya</td>
</tr>
<tr>
<td>ERD</td>
<td></td>
<td>Relasi</td>
<td>Menghubungkan antar entitas yang berbeda</td>
</tr>
<tr>
<td>Flowchart</td>
<td></td>
<td>Preparation</td>
<td>Untuk mempersiapkan penyimpanan nilai yang akan di gunakan / inisialisasi</td>
</tr>
<tr>
<td>Flowchart</td>
<td></td>
<td>Terminal</td>
<td>Memulai atau mengakhiri suatu program</td>
</tr>
<tr>
<td>Flowchart</td>
<td></td>
<td>Proses</td>
<td>Menunjukkan kegiatan proses dari operasi program komputer</td>
</tr>
<tr>
<td>Jenis</td>
<td>Notasi/Lambang</td>
<td>Nama</td>
<td>Arti</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>---------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Flowchart</td>
<td><img src="image" alt="Decision / Keputusan" /></td>
<td>Decision / Keputusan</td>
<td>Untuk menghasilkan beberapa kemungkinan jawaban atau pilihan</td>
</tr>
<tr>
<td>Flowchart</td>
<td><img src="image" alt="Dokumen" /></td>
<td>Dokumen</td>
<td>Menunjukkan output atau input dari dokumen berbentuk informasi</td>
</tr>
<tr>
<td>Flowchart</td>
<td><img src="image" alt="Manual Operation" /></td>
<td>Manual Operation</td>
<td>Menunjukkan proses yang dilakukan secara manual</td>
</tr>
<tr>
<td>Flowchart</td>
<td><img src="image" alt="Input/Output" /></td>
<td>Input/Output</td>
<td>Proses input/output data</td>
</tr>
<tr>
<td>Flowchart</td>
<td><img src="image" alt="Off-Page Reference" /></td>
<td>Off-Page Reference</td>
<td>Untuk menghubungkan bagian flowchart yang berada pada halaman yang berbeda</td>
</tr>
<tr>
<td>Flowchart</td>
<td><img src="image" alt="On-Page Reference" /></td>
<td>On-Page Reference</td>
<td>Untuk menghubungkan bagian flowchart yang berada pada satu halaman</td>
</tr>
<tr>
<td>DFD</td>
<td><img src="image" alt="Entitas" /></td>
<td>Entitas</td>
<td>Menggambarkan data yang berinteraksi dengan sistem tetap diluar sistem.</td>
</tr>
<tr>
<td>Jenis</td>
<td>Notasi/Lambang</td>
<td>Nama</td>
<td>Arti</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>DFD</td>
<td></td>
<td>Proses</td>
<td>Menunjukkan suatu unit yang menggunakan atau mempergunakan transformasi data</td>
</tr>
<tr>
<td>DFD</td>
<td>Data Store</td>
<td>Data Store</td>
<td>Tempat penyimpanan data atau informasi</td>
</tr>
<tr>
<td>DFD</td>
<td>Arus Data</td>
<td>Arus Data</td>
<td>Arus data yang dapat berupa hasil dari proses sistem</td>
</tr>
<tr>
<td>Singkatan</td>
<td>Penjelasan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERD</td>
<td>EntityRelationshipDiagram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DFD</td>
<td>DataFlowDiagram</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHP</td>
<td>HypertextPreprocessor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTML</td>
<td>HypertextMarkupLanguage</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>