ABSTRAK


Kata kunci: produksi, penjadwalan, algoritma round robin
ABSTRACT

Every textile's industries who move in design printing want the most efficient and effective production. The industry can get more profit with efficient and effective production. This fact has occurred in PT Marga Sandang textile Bandung too that the production of design printing which done by manual process has made the batch of production process. The information system in this application will calculate the time which every production process need with Round Robin algorithm and then will perform the production’s process. This application will managed raw materials purchasing from supplier, sales to customer, inventory management for raw materials stocks

Keyword : production, scheduling, round robin
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<td>Gambar 63</td>
<td>Form Tambah Pembeli</td>
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<td>Gambar 64</td>
<td>Form Pengguna</td>
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<td>Form Pengguna Pencarian Berdasarkan Nama</td>
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<td>Gambar 67</td>
<td>Form Pembelian Master</td>
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<td>Form Pembelian Detail</td>
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<td>Gambar 69</td>
<td>Form Penjualan Master</td>
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<td>Gambar 75</td>
<td>Form Laporan Penjualan Barang</td>
<td>122</td>
</tr>
<tr>
<td>Gambar 76</td>
<td>Form Laporan Produksi</td>
<td>123</td>
</tr>
</tbody>
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Simbol Alir Proses Bisnis

*Tabel I Simbol Alir Proses Bisnis (Febriani, 2003, Flowchart)*

<table>
<thead>
<tr>
<th>No.</th>
<th>Nama Simbol</th>
<th>Gambar Simbol</th>
<th>Keterangan</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Dokumen</td>
<td></td>
<td>Menunjukkan dokumen input dan output untuk proses manual, mekanik, atau komputer.</td>
</tr>
<tr>
<td>4.</td>
<td>Proses</td>
<td></td>
<td>Menunjukkan proses dari operasi program komputer</td>
</tr>
<tr>
<td>5.</td>
<td>Harddisk</td>
<td></td>
<td>Menunjukkan input/output data menggunakan harddisk.</td>
</tr>
<tr>
<td>6.</td>
<td>Keyboard</td>
<td></td>
<td>Menunjukkan input yang menggunakan on-line keyboard.</td>
</tr>
<tr>
<td>No.</td>
<td>Nama Simbol</td>
<td>Gambar Simbol</td>
<td>Keterangan</td>
</tr>
<tr>
<td>-----</td>
<td>---------------</td>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1.</td>
<td>Proses / Process</td>
<td>/</td>
<td>Mengubah suatu input data dari suatu bentuk menjadi bentuk yang lain (output).</td>
</tr>
</tbody>
</table>

**Simbol Diagram Aliran Data**

**Tabel II Simbol Diagram Aliran Data (Yourdone,2009, Structure Analysis)**
2. Arus Data / Data Flow
   Aliran data yang menunjukkan perpindahan data dari satu bagian ke bagian yang lain dalam sebuah sistem.

3. Simpanan Data / Data Store
   Tempat penyimpanan data dalam suatu sistem, baik secara manual maupun secara elektronik.

4. Kesatuan luar / External Entity
   User atau sistem yang lain yang memberikan input atau menerima output dari sistem yang ada.

Simbol Kamus Data

<table>
<thead>
<tr>
<th>No.</th>
<th>Gambar Simbol</th>
<th>Keterangan</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>=</td>
<td>Terbentuk dari, sama dengan</td>
</tr>
<tr>
<td>2.</td>
<td>+</td>
<td>Dan</td>
</tr>
<tr>
<td>3.</td>
<td>[ ]</td>
<td>Atau, pilihan dari salah satu elemen karakteristik data yang ada di dalam tanda ini</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>Tanda pemisah untuk data di dalam [ ]</td>
</tr>
<tr>
<td>5.</td>
<td>{ }</td>
<td>Iterasi, ada perulangan suatu elemen karakteristik data.</td>
</tr>
</tbody>
</table>
Simbol Diagram Relasi Entitas

Tabel IV Simbol Diagram Relasi Entitas (Simarmata, 2008, Perancangan Basis Data)

<table>
<thead>
<tr>
<th>No.</th>
<th>Nama Simbol</th>
<th>Gambar Simbol</th>
<th>Keterangan</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Weak Entity</td>
<td><img src="image" alt="Diagram Weak Entity" /></td>
<td>Entitas yang tidak memiliki atribut kunci sehingga harus dihubungkan dengan strong entity. Weak entity menggunakan deskriminator sebagai atribut uniknya dan juga menggunakan atribut kunci dari strong entity yang berhubungan dengannya.</td>
</tr>
<tr>
<td>2.</td>
<td>Strong Entity</td>
<td><img src="image" alt="Diagram Strong Entity" /></td>
<td>Entitas yang memiliki atribut kunci untuk tiap individu di dalamnya. Entitas ini bersifat mandiri, keberadaannya tidak bergantung pada entitas lainnya.</td>
</tr>
<tr>
<td>No.</td>
<td>Type</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Simple Attribute</td>
<td>Atribut sederhana yang tidak dapat dipilah lagi.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Composite Attribute</td>
<td>Atribut komposit yang dapat dibagi menjadi beberapa atribut lagi.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Single-Valued Attribute</td>
<td>Atribut Bernilai-Tunggal, memiliki paling banyak satu nilai untuk setiap baris data.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Multivalued Attribute</td>
<td>Atribut Bernilai-Banyak, memiliki lebih dari satu nilai, tetapi jenisnya sama.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Derived Attribute</td>
<td>Atribut Turunan yang nilainya diperoleh dari nilai atribut yang lainnya pada suatu entity yang sama.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Relasi</td>
<td>Menunjukkan adanya hubungan di antara entitas yang berasal dari himpunan entitas yang berbeda.</td>
<td></td>
</tr>
</tbody>
</table>