# ANALISIS DAN PERANCANGAN

## Analisis Sistem

JELASKAN SECARA UMUM

### INFORMASI PERUSAHAAN

JELASKAN POIN BERIKUT (UMUMNYA):

* SEJARAH SINGKAT / INFORMASI TENTANG SEKOLAH
* VISI MISI
* STRUKTUR ORGANISASI DAN TUGASNYA

### Analisis Sistem yang Sedang Berjalan

Analisis sistem berjalan adalah tahapan yang BLABLA **JELASKAN SECARA UMUM**



**Gambar 3.1**Prosedur Pembelian Barang

Adapun penjelasan dari gambar ........ adalah diatas sebagai berikut:

JELASKAN BISA PERPOIN ATAU PENJELASAN PARAGRAF



**Gambar 3.1** Prosedur Penjualan Barang

Adapun penjelasan dari gambar ........ adalah diatas sebagai berikut:

JELASKAN BISA PERPOIN ATAU PENJELASAN PARAGRAF

### Analisis Masalah

TEMUAN-TEMUAN MASALAH YANG TERJADI DARI SISTEM YANG BERJALAN BISA DIAMBIL DARI BAB 1, DAPAT DIJELASKAN PERPOIN

### Penyelesaian Masalah

DARI TEMUAN MASALAH YANG TERJADI BAGAIMANA CARA PENYELESAIANYA? PAKAI METODE APA ALGO APA?JELASKAN KENAPA PAKE ITU

#### *Customer Relationship Management* (CRM)

PENJELASAN SECARA UMUM KENAPA BISA MEMAKAI INI CARA IMPLEMENTASINYA GIMANA

#### JELASKAN CRM MODELNYA

PENJELASAN PENGGUNAAN MODEL TERSEBUT DENGAN CONTOH CARA MENGGUNAKANNYA ATAU CARA IMPLEMENTASINYA

### Analisis Sistem yang Diusulkan

JELASKAN SISTEM YANG DIUSULKAN SECARA UMUM .



**Gambar 3.2** Flow Map Analisis Sistem yang Diusulkan

Keterangan dan prosedur sistem usulan yang dilakukan operator:

CONTOH

1. Pustakawan melakukan login yaitu dengan cara mengisi *username* dan *password* yang sudah ditentukan sebelumnya untuk bisa masuk kedalam sistem.
2. Sistem akan melakukan validasi sehingga *username* dan *password.* Jika salah maka tidak bisa masuk ke dalam sistem. Jika benar maka akan masuk kedalam sistem untuk dapat melakukan pengelolaan data*.*

Keterangan dan prosedur sistem usulan yang dilakukan guru :

CONTOH

1. Pustakawan melakukan login yaitu dengan cara mengisi *username* dan *password* yang sudah ditentukan sebelumnya untuk bisa masuk kedalam sistem.
2. Sistem akan melakukan validasi sehingga *username* dan *password.* Jika salah maka tidak bisa masuk ke dalam sistem. Jika benar maka akan masuk kedalam sistem untuk dapat melakukan pengelolaan data

Keterangan dan prosedur sistem usulan yang dilakukan kepala sekolah :

CONTOH

1. Pustakawan melakukan login yaitu dengan cara mengisi *username* dan *password* yang sudah ditentukan sebelumnya untuk bisa masuk kedalam sistem.
2. Sistem akan melakukan validasi sehingga *username* dan *password.* Jika salah maka tidak bisa masuk ke dalam sistem. Jika benar maka akan masuk kedalam sistem untuk dapat melakukan pengelolaan data

Keterangan dan prosedur sistem usulan yang dilakukan siswa :

CONTOH

1. Pustakawan melakukan login yaitu dengan cara mengisi *username* dan *password* yang sudah ditentukan sebelumnya untuk bisa masuk kedalam sistem.
2. Sistem akan melakukan validasi sehingga *username* dan *password.* Jika salah maka tidak bisa masuk ke dalam sistem. Jika benar maka akan masuk kedalam sistem untuk dapat melakukan pengelolaan data

### Analisis Kebutuhan Sistem

JELASKAN SECARA UMUM

#### Analisis Kebutuhan Fungsional

JELAS SPESIFIKASI YANG DIGUNAKAN

#### Analisis Kebutuhan Non Fungsional

JELAS SPESIFIKASI YANG DIGUNAKAN

### Analisis Kelayakan Sistem

BOLEH DIMASUKAN ATAU TIDAK

Analisis kelayakan sistem adalah suatu studi yang akan digunakan untuk menentukan kemungkinan apakah pengembangan proyek sistem layak diteruskan atau dihentikan.

Contoh Kelayakan teknologi, hukum, dan operasional

## Perancangan Sistem

JELASKAN PERANCANGAN SISTEM SECARA UMUM

### *Context Diagram*

JELASKAN USE DIAGRAM KONTEKS SECARA UMUM



**Gambar 3.4** Diagram Konteks

### *Data Flow Diagram* (DFD)

JELASKAN DFD SECARA UMUM

#### *Data Flow Diagram (DFD) Level 0*



**Gambar 3.4** *Data Diagram Flow (DFD) Level 0*

JELASKAN PERPROSES DARI URUTAN PALING ATAS, JELASKAN SECARA GARIS BESAR SAJA, TUGAS FUNGSI DAN TUJUANNYA SAJA

#### Data Flow Diagram (DFD) Level 1 2.0 Proses Kelola Data Master



**Gambar 3.4** *Data Diagram Flow (DFD) Level 1* 2.0 Kelola Data Master

JELASKAN PERPROSES DARI URUTAN PALING ATAS, JELASKAN SECARA GARIS BESAR SAJA, TUGAS FUNGSI DAN TUJUANNYA SAJA

#### Data Flow Diagram (DFD) Level 1 3.0 Proses Pembelian



**Gambar 3.4** *Data Diagram Flow (DFD) Level 1* 3.0 Pembelian

JELASKAN PERPROSES DARI URUTAN PALING ATAS, JELASKAN SECARA GARIS BESAR SAJA, TUGAS FUNGSI DAN TUJUANNYA SAJA

### *Entity Relationship Diagram* (ERD)

JELASKAN ERD SECARA UMUM



**Gambar 3.4** *Entity Relation Diagram (ERD)*

### Relasi Antar Tabel

JELASKAN REKASI ANTAR TABEL SECARA UMUM



**Gambar 3.4** Relasi Antar Tabel

### Normalisasi

JELASKAN SEQUENCE DIAGRAM SECARA UMUM

Bentuk Tidak Normal (Unnormalize)

JELASKAN SECARA UMUM UNNORMALIZE

**Tabel 3.10** Bentuk Tidak Normal (Unnormalize)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **id\_distributor** | **nama\_distributor** | **pic\_distributor** | **kontak\_distributor** | **alamat\_distributor** |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
|  |  |  |  |  |
|  |  |  |  |  |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
|  |  |  |  |  |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **username\_distributor** | **password\_distributor** | **foto\_distributor** | **kode\_bank** | **nama\_bank** |
| distributor1 | distributor1 | distributor1.jpg | 014 | BCA |
|  |  |  |  |  |
|  |  |  |  |  |
| distributor2 | distributor2 | distributor2.jpg | 008 | Mandiri |
|  |  |  |  |  |
| distributor3 | distributor3 | distributor3.jpg | 014 | BCA |
|  |  |  |  |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **kode\_rekening** | **an\_rekening** | **no\_rekening** | **kode\_penawaran** | **nama\_penawaran** |
| REK1 | PT Indofood | 1111111111 | PNW1 | Penawaran Produk Baru |
|  |  |  |  |  |
|  |  |  |  |  |
| REK2 | PT Wings Food | 2222222222 | PNW2 | Penawaran Kerja Sama |
|  |  |  |  |  |
| REK3 | PT Arta Boga | 3333333333 | PNW3 | Proposal Kerja Sama |
|  |  |  |  |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tanggal\_penawaran** | **berkas\_penawaran** | **status\_penawaran** | **kode\_produk** | **status\_penawaran\_produk** |
| 2023-05-23 | berkas1.pdf | 2 | PRD1 | Diterima |
|  |  |  | PRD2 | Diterima |
|  |  |  | PRD3 | Diterima |
| 2023-05-23 | berkas2.pdf | 2 | PRD4 | Diterima |
|  |  |  | PRD5 | Diterima |
| 2023-05-23 | berkas3.pdf | 2 | PRD6 | Diterima |
|  |  |  | PRD7 | Diterima |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **nama\_produk** | **satuan\_produk** | **harga\_beli\_produk** | **harga\_jual\_produk** | **stok\_dis\_produk** |
| Indomilk | Pak | Rp 193.600 | Rp 198.000 | 751 |
| Bumbu Racik | Renceng | Rp 15.500 | Rp 17.850 | 4.545 |
| Indomie | Dus | Rp 113.300 | Rp 117.200 | 624 |
| Mie Sedap | Dus | Rp 109.800 | Rp 115.000 | 355 |
| Floridina | Pak | Rp 56.500 | Rp 59.000 | 653 |
| Teh Gelas | Dus | Rp 23.800 | Rp 25.000 | 467 |
| Tanggo | Pak | Rp 9.800 | Rp 10.500 | 246 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **limit\_dis\_produk** | **stok\_tok\_produk** | **limit\_tok\_produk** | **gambar\_produk** | **d\_produk** |
| 100 | 14 | 20 | Indomilk.jpg | 123 |
| 100 | 35 | 20 | Bumbu Racik.jpg | 123 |
| 100 | 16 | 20 | Indomie.jpg | 123 |
| 100 | 61 | 20 | Mie Sedap.jpg | 123 |
| 100 | 63 | 20 | Floridina.jpg | 123 |
| 100 | 35 | 20 | Teh Gelas.jpg | 123 |
| 100 | 63 | 20 | Tanggo.jpg | 123 |

Tabel Lanjutan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **h\_produk** | **lt\_produk** | **au\_produk** | **ss\_produk** | **tanggal\_produk** | **perubahan\_produk** |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **perubahan\_harga\_produk** | **kode\_kategori** | **nama\_kategori** | **kode\_ipembelian** | **tanggal\_masuk\_ipembelian** |
| 0 | MNMKMS | Minuman Kemasan | IPBL1 | 2023-05-23 |
| 0 | BMBDPR | Bumbu Dapur | IPBL2 | 2023-05-24 |
| 0 | MKNINS | Makanan Instan | IPBL3 | 2023-05-25 |
| 0 | MKNINS | Makanan Instan | IPBL4 | 2023-05-26 |
| 0 | MNMKMS | Minuman Kemasan | IPBL5 | 2023-05-27 |
| 0 | MNMKMS | Minuman Kemasan | IPBL6 | 2023-05-28 |
| 0 | MKNRGN | Makanan Ringan | IPBL7 | 2023-05-29 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **qty\_ipembelian** | **harga\_ipembelian** | **subtotal\_ipembelian** | **status\_ipembelian** | **kode\_pembelian** |
| 100 | Rp 193.600 | Rp 19.360.000 | 3 | PBL1 |
| 400 | Rp 15.500 | Rp 6.200.000 | 3 |  |
| 500 | Rp 13.300 | Rp 56.650.000 | 3 |  |
| 500 | Rp 109.800 | Rp 54.900.000 | 3 | PBL2 |
| 250 | Rp 56.500 | Rp 14.125.000 | 3 |  |
| 100 | Rp 23.800 | Rp .380.000 | 3 | PBL3 |
| 350 | Rp 9.800 | Rp 3.430.000 | 3 |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tanggal\_pengajuan\_pembelian** | **tanggal\_penerimaan\_pembelian** | **total\_pby\_pembelian** | **bukti\_pby\_pembelian** | **status\_pby\_pembelian** |
| 2023-05-24 | 2023-05-25 | Rp 82.210.000 | pby1.jpg | Lunas |
|  |  |  |  |  |
|  |  |  |  |  |
| 2023-05-24 | 2023-05-25 | Rp 69.025.000 | pby2.jpg | Lunas |
|  |  |  |  |  |
| 2023-05-24 | 2023-05-25 | R p 5.810.000 | pby3.jpg | Lunas |
|  |  |  |  |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **keterangan\_pembelian** | **status\_pembelian** | **kode\_ipenjualan** | **qty\_ipenjualan** | **harga\_ipenjualan** |
| - | Selesai | IPJL1 | 20 | Rp 98.000 |
|  |  |  |  |  |
|  |  | IPJL2 | 5 | Rp 17.200 |
| - | Selesai |  |  |  |
|  |  |  |  |  |
| - | Selesai | IPJL3 | 10 | Rp 25.000 |
|  |  | IPJL4 | 10 | Rp 10.500 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **subtotal\_ipenjualan** | **tanggal\_ipenjualan** | **status\_ipenjualan** | **keterangan\_ipenjualan** | **kode\_penjualan** |
| Rp 3.960.000 | 2023-05-25 | Selesai | - | PJL1 |
|  |  |  |  |  |
| Rp 586.000 | 2023-05-25 | Selesai | - |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Rp 250.000 | 2023-05-25 | Selesai | - | PJL2 |
| Rp 105.000 | 2023-05-25 | Selesai | - |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **nama\_penjualan** | **tanggal\_penjualan** | **cash\_penjualan** | **total\_penjualan** | **keterangan\_penjualan** |
| Anom | 2023-05-25 | Rp 4.550.000 | Rp 4.546.000 | - |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Boy | 2023-05-25 | Rp 355.000 | Rp 355.000 | - |
|  |  |  |  |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **id\_karyawan** | **level\_karyawan** | **nama\_karyawan** | **alamat\_karyawan** | **kontak\_karyawan** |
| 2 | Kasir | Dama | Kuningan | 082222222222 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 2 | Kasir | Dama | Kuningan | 082222222222 |
|  |  |  |  |  |
| 1 | Admin | Admin | Kuningan | 081111111111 |
| 3 | Pemilik | Pemilik | Rian | 083333333333 |

Tabel Lanjutan

|  |  |  |
| --- | --- | --- |
| **username\_karyawan** | **password\_karyawan** | **foto\_karyawan** |
| kasir | kasir | kasir.jpg |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| kasir | kasir | kasir.jpg |
|  |  |  |
| admin | admin | admin.jpg |
| pemilik | pemilik | pemilik.jpg |

Tabel Lanjutan

Bentuk Normal Pertama (1NF)

JELASKAN SECARA UMUM 1NF

**Tabel 3.10** Bentuk Normal Pertama (1NF)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **id\_distributor** | **nama\_distributor** | **pic\_distributor** | **kontak\_distributor** | **alamat\_distributor** |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **username\_distributor** | **password\_distributor** | **foto\_distributor** | **kode\_bank** | **nama\_bank** |
| distributor1 | distributor1 | distributor1.jpg | 014 | BCA |
| distributor1 | distributor1 | distributor1.jpg | 014 | BCA |
| distributor1 | distributor1 | distributor1.jpg | 014 | BCA |
| distributor2 | distributor2 | distributor2.jpg | 008 | Mandiri |
| distributor2 | distributor2 | distributor2.jpg | 008 | Mandiri |
| distributor3 | distributor3 | distributor3.jpg | 014 | BCA |
| distributor3 | distributor3 | distributor3.jpg | 014 | BCA |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **kode\_rekening** | **an\_rekening** | **no\_rekening** | **kode\_penawaran** | **nama\_penawaran** |
| REK1 | PT Indofood | 1111111111 | PNW1 | Penawaran Produk Baru |
| REK1 | PT Indofood | 1111111111 | PNW1 | Penawaran Produk Baru |
| REK1 | PT Indofood | 1111111111 | PNW1 | Penawaran Produk Baru |
| REK2 | PT Wings Food | 2222222222 | PNW2 | Penawaran Kerja Sama |
| REK2 | PT Wings Food | 2222222222 | PNW2 | Penawaran Kerja Sama |
| REK3 | PT Arta Boga | 3333333333 | PNW3 | Proposal Kerja Sama |
| REK3 | PT Arta Boga | 3333333333 | PNW3 | Proposal Kerja Sama |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tanggal\_penawaran** | **berkas\_penawaran** | **status\_penawaran** | **kode\_produk** | **status\_penawaran\_produk** |
| 2023-05-23 | berkas1.pdf | 2 | PRD1 | Diterima |
| 2023-05-23 | berkas1.pdf | 2 | PRD2 | Diterima |
| 2023-05-23 | berkas1.pdf | 2 | PRD3 | Diterima |
| 2023-05-23 | berkas2.pdf | 2 | PRD4 | Diterima |
| 2023-05-23 | berkas2.pdf | 2 | PRD5 | Diterima |
| 2023-05-23 | berkas3.pdf | 2 | PRD6 | Diterima |
| 2023-05-23 | berkas3.pdf | 2 | PRD7 | Diterima |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **nama\_produk** | **satuan\_produk** | **harga\_beli\_produk** | **harga\_jual\_produk** | **stok\_dis\_produk** |
| Indomilk | Pak | Rp 193.600 | Rp 198.000 | 751 |
| Bumbu Racik | Renceng | Rp 15.500 | Rp 17.850 | 4.545 |
| Indomie | Dus | Rp 113.300 | Rp 117.200 | 624 |
| Mie Sedap | Dus | Rp 109.800 | Rp 115.000 | 355 |
| Floridina | Pak | Rp 56.500 | Rp 59.000 | 653 |
| Teh Gelas | Dus | Rp 23.800 | Rp 25.000 | 467 |
| Tanggo | Pak | Rp 9.800 | Rp 10.500 | 246 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **limit\_dis\_produk** | **stok\_tok\_produk** | **limit\_tok\_produk** | **gambar\_produk** | **d\_produk** |
| 100 | 14 | 20 | Indomilk.jpg | 123 |
| 100 | 35 | 20 | Bumbu Racik.jpg | 123 |
| 100 | 16 | 20 | Indomie.jpg | 123 |
| 100 | 61 | 20 | Mie Sedap.jpg | 123 |
| 100 | 63 | 20 | Floridina.jpg | 123 |
| 100 | 35 | 20 | Teh Gelas.jpg | 123 |
| 100 | 63 | 20 | Tanggo.jpg | 123 |

Tabel Lanjutan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **h\_produk** | **lt\_produk** | **au\_produk** | **ss\_produk** | **tanggal\_produk** | **perubahan\_produk** |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |
| 123 | 123 | 123 | 123 | 2023-05-24 | Baru |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **perubahan\_harga\_produk** | **kode\_kategori** | **nama\_kategori** | **kode\_ipembelian** | **tanggal\_masuk\_ipembelian** |
| 0 | MNMKMS | Minuman Kemasan | IPBL1 | 2023-05-23 |
| 0 | BMBDPR | Bumbu Dapur | IPBL2 | 2023-05-24 |
| 0 | MKNINS | Makanan Instan | IPBL3 | 2023-05-25 |
| 0 | MKNINS | Makanan Instan | IPBL4 | 2023-05-26 |
| 0 | MNMKMS | Minuman Kemasan | IPBL5 | 2023-05-27 |
| 0 | MNMKMS | Minuman Kemasan | IPBL6 | 2023-05-28 |
| 0 | MKNRGN | Makanan Ringan | IPBL7 | 2023-05-29 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **qty\_ipembelian** | **harga\_ipembelian** | **subtotal\_ipembelian** | **status\_ipembelian** | **kode\_pembelian** |
| 100 | Rp 193.600 | Rp 19.360.000 | 3 | PBL1 |
| 400 | Rp 15.500 | Rp 6.200.000 | 3 |  |
| 500 | Rp 13.300 | Rp 56.650.000 | 3 |  |
| 500 | Rp 109.800 | Rp 54.900.000 | 3 | PBL2 |
| 250 | Rp 56.500 | Rp 14.125.000 | 3 |  |
| 100 | Rp 23.800 | Rp .380.000 | 3 | PBL3 |
| 350 | Rp 9.800 | Rp 3.430.000 | 3 |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **tanggal\_pengajuan\_pembelian** | **tanggal\_penerimaan\_pembelian** | **total\_pby\_pembelian** | **bukti\_pby\_pembelian** | **status\_pby\_pembelian** |
| 2023-05-24 | 2023-05-25 | Rp 82.210.000 | pby1.jpg | Lunas |
|  |  |  |  |  |
|  |  |  |  |  |
| 2023-05-24 | 2023-05-25 | Rp 69.025.000 | pby2.jpg | Lunas |
|  |  |  |  |  |
| 2023-05-24 | 2023-05-25 | R p 5.810.000 | pby3.jpg | Lunas |
|  |  |  |  |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **keterangan\_pembelian** | **status\_pembelian** | **kode\_ipenjualan** | **qty\_ipenjualan** | **harga\_ipenjualan** |
| - | Selesai | IPJL1 | 20 | Rp 98.000 |
|  |  |  |  |  |
|  |  | IPJL2 | 5 | Rp 17.200 |
| - | Selesai |  |  |  |
|  |  |  |  |  |
| - | Selesai | IPJL3 | 10 | Rp 25.000 |
|  |  | IPJL4 | 10 | Rp 10.500 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **subtotal\_ipenjualan** | **tanggal\_ipenjualan** | **status\_ipenjualan** | **keterangan\_ipenjualan** | **kode\_penjualan** |
| Rp 3.960.000 | 2023-05-25 | Selesai | - | PJL1 |
|  |  |  |  |  |
| Rp 586.000 | 2023-05-25 | Selesai | - |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Rp 250.000 | 2023-05-25 | Selesai | - | PJL2 |
| Rp 105.000 | 2023-05-25 | Selesai | - |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **nama\_penjualan** | **tanggal\_penjualan** | **cash\_penjualan** | **total\_penjualan** | **keterangan\_penjualan** |
| Anom | 2023-05-25 | Rp 4.550.000 | Rp 4.546.000 | - |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Boy | 2023-05-25 | Rp 355.000 | Rp 355.000 | - |
|  |  |  |  |  |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **id\_karyawan** | **level\_karyawan** | **nama\_karyawan** | **alamat\_karyawan** | **kontak\_karyawan** |
| 2 | Kasir | Dama | Kuningan | 082222222222 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| 2 | Kasir | Dama | Kuningan | 082222222222 |
|  |  |  |  |  |
| 1 | Admin | Admin | Kuningan | 081111111111 |
| 3 | Pemilik | Pemilik | Rian | 083333333333 |

Tabel Lanjutan

|  |  |  |
| --- | --- | --- |
| **username\_karyawan** | **password\_karyawan** | **foto\_karyawan** |
| kasir | kasir | kasir.jpg |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| kasir | kasir | kasir.jpg |
|  |  |  |
| admin | admin | admin.jpg |
| pemilik | pemilik | pemilik.jpg |

Tabel Lanjutan

Bentuk Normal Kedua (2NF)

JELASKAN SECARA UMUM 2NF

**Tabel 3.10** Tabel distributor

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **id\_distributor** | **nama\_distributor** | **pic\_distributor** | **kontak\_distributor** | **alamat\_distributor** |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |

|  |  |  |
| --- | --- | --- |
| **username\_distributor** | **password\_distributor** | **foto\_distributor** |
| distributor1 | distributor1 | distributor1.jpg |
| distributor1 | distributor1 | distributor1.jpg |
| distributor1 | distributor1 | distributor1.jpg |
| distributor2 | distributor2 | distributor2.jpg |
| distributor2 | distributor2 | distributor2.jpg |
| distributor3 | distributor3 | distributor3.jpg |
| distributor3 | distributor3 | distributor3.jpg |

Tabel Lanjutan

**Tabel 3.10** Tabel bank

|  |  |
| --- | --- |
| **kode\_bank** | **nama\_bank** |
| 014 | BCA |
| 008 | Mandiri |

**Tabel 3.10** Tabel rekening

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **kode\_rekening** | **an\_rekening** | **no\_rekening** | **kode\_bank** | **id\_distributor** |
| REK1 | PT Indofood | 1111111111 | 014 | DST1 |
| REK2 | PT Wings Food | 2222222222 | 008 | DST2 |
| REK3 | PT Arta Boga | 3333333333 | 014 | DST3 |

**Tabel 3.10** Tabel penawaran

|  |  |  |
| --- | --- | --- |
| **kode\_penawaran** | **nama\_penawaran** | **tanggal\_penawaran** |
| PNW1 | Penawaran Produk Baru | 2023-05-23 |
| PNW2 | Penawaran Kerja Sama | 2023-05-23 |
| PNW3 | Proposal Kerja Sama | 2023-05-23 |

|  |  |  |
| --- | --- | --- |
| **berkas\_penawaran** | **status\_penawaran** | **id\_distributor** |
| berkas1.pdf | 2 | DST1 |
| berkas2.pdf | 2 | DST2 |
| berkas3.pdf | 2 | DST3 |

Tabel Lanjutan

**Tabel 3.10** Tabel produk

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **kode\_produk** | **status\_penawaran\_produk** | **nama\_produk** | **satuan\_produk** | **harga\_beli\_produk** |
| PRD1 | Diterima | Indomilk | Pak | Rp 193.600 |
| PRD2 | Diterima | Bumbu Racik | Renceng | Rp 15.500 |
| PRD3 | Diterima | Indomie | Dus | Rp 113.300 |
| PRD4 | Diterima | Mie Sedap | Dus | Rp 109.800 |
| PRD5 | Diterima | Floridina | Pak | Rp 56.500 |
| PRD6 | Diterima | Teh Gelas | Dus | Rp 23.800 |
| PRD7 | Diterima | Tanggo | Pak | Rp 9.800 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **harga\_jual\_produk** | **stok\_dis\_produk** | **limit\_dis\_produk** | **stok\_tok\_produk** | **limit\_tok\_produk** |
| Rp 198.000 | 751 | 100 | 14 | 20 |
| Rp 17.850 | 4.545 | 100 | 35 | 20 |
| Rp 117.200 | 624 | 100 | 16 | 20 |
| Rp 115.000 | 355 | 100 | 61 | 20 |
| Rp 59.000 | 653 | 100 | 63 | 20 |
| Rp 25.000 | 467 | 100 | 35 | 20 |
| Rp 10.500 | 246 | 100 | 63 | 20 |

Tabel Lanjutan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **gambar\_produk** | **d\_produk** | **h\_produk** | **lt\_produk** | **au\_produk** | **ss\_produk** | **tanggal\_produk** |
| Indomilk.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Bumbu Racik.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Indomie.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Mie Sedap.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Floridina.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Teh Gelas.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Tanggo.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **perubahan\_produk** | **perubahan\_harga\_produk** | **kode\_kategori** | **kode\_penawaran** | **id\_distributor** |
| Baru | 0 | MNMKMS | PNW1 | DST1 |
| Baru | 0 | BMBDPR | PNW1 | DST1 |
| Baru | 0 | MKNINS | PNW1 | DST1 |
| Baru | 0 | MKNINS | PNW2 | DST2 |
| Baru | 0 | MNMKMS | PNW2 | DST2 |
| Baru | 0 | MNMKMS | PNW3 | DST3 |
| Baru | 0 | MKNRGN | PNW3 | DST3 |

Tabel Lanjutan

**Tabel 3.10** Tabel kategori

|  |  |
| --- | --- |
| **kode\_kategori** | **nama\_kategori** |
| MNMKMS | Minuman Kemasan |
| BMBDPR | Bumbu Dapur |
| MKNINS | Makanan Instan |
| MNMKMS | Minuman Kemasan |
| MKNRGN | Makanan Ringan |

**Tabel 3.10** Tabel ipembelian

|  |  |  |  |
| --- | --- | --- | --- |
| **kode\_ipembelian** | **tanggal\_masuk\_ipembelian** | **qty\_ipembelian** | **harga\_ipembelian** |
| IPBL1 | 2023-05-23 | 100 | Rp 193.600 |
| IPBL2 | 2023-05-24 | 400 | Rp 15.500 |
| IPBL3 | 2023-05-25 | 500 | Rp 113.300 |
| IPBL4 | 2023-05-26 | 500 | Rp 109.800 |
| IPBL5 | 2023-05-27 | 250 | Rp 56.500 |
| IPBL6 | 2023-05-28 | 100 | Rp 23.800 |
| IPBL7 | 2023-05-29 | 350 | Rp 9.800 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **subtotal\_ipembelian** | **status\_ipembelian** | **kode\_pembelian** | **kode\_produk** | **id\_distributor** |
| Rp 19.360.000 | 3 | PBL1 | PRD1 | DST1 |
| Rp 6.200.000 | 3 | PBL1 | PRD2 | DST1 |
| Rp 56.650.000 | 3 | PBL1 | PRD3 | DST1 |
| Rp 54.900.000 | 3 | PBL2 | PRD4 | DST2 |
| Rp 14.125.000 | 3 | PBL2 | PRD5 | DST2 |
| Rp 2.380.000 | 3 | PBL3 | PRD6 | DST3 |
| Rp 3.430.000 | 3 | PBL3 | PRD7 | DST3 |

Tabel Lanjutan

**Tabel 3.10** Tabel pembelian

|  |  |  |  |
| --- | --- | --- | --- |
| **kode\_pembelian** | **tanggal\_pengajuan\_pembelian** | **tanggal\_penerimaan\_pembelian** | **total\_pby\_pembelian** |
| PBL1 | 2023-05-24 | 2023-05-25 | Rp 82.210.000 |
| PBL2 | 2023-05-24 | 2023-05-25 | Rp 69.025.000 |
| PBL3 | 2023-05-24 | 2023-05-25 | Rp 5.810.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **bukti\_pby\_pembelian** | **status\_pby\_pembelian** | **keterangan\_pembelian** | **status\_pembelian** | **id\_distributor** | **kode\_rekening** |
| pby1.jpg | Lunas | - | Selesai | DST1 | REK1 |
| pby2.jpg | Lunas | - | Selesai | DST2 | REK2 |
| pby3.jpg | Lunas | - | Selesai | DST3 | REK3 |

Tabel Lanjutan

**Tabel 3.10** Tabel ipenjualan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **kode\_ipenjualan** | **qty\_ipenjualan** | **harga\_ipenjualan** | **subtotal\_ipenjualan** | **tanggal\_ipenjualan** |
| IPJL1 | 20 | Rp 198.000 | Rp 3.960.000 | 2023-05-25 |
| IPJL2 | 5 | Rp 117.200 | Rp 586.000 | 2023-05-25 |
| IPJL3 | 10 | Rp 25.000 | Rp 250.000 | 2023-05-25 |
| IPJL4 | 10 | Rp 10.500 | Rp 105.000 | 2023-05-25 |

|  |  |  |  |
| --- | --- | --- | --- |
| **status\_ipenjualan** | **keterangan\_ipenjualan** | **kode\_penjualan** | **kode\_produk** |
| Selesai | - | PJL1 | PRD1 |
| Selesai | - | PJL1 | PRD3 |
| Selesai | - | PJL2 | PRD6 |
| Selesai | - | PJL2 | PRD7 |

Tabel Lanjutan

**Tabel 3.10** Tabel penjualan

|  |  |  |  |
| --- | --- | --- | --- |
| **kode\_penjualan** | **nama\_penjualan** | **tanggal\_penjualan** | **cash\_penjualan** |
| PJL1 | Anom | 2023-05-25 | Rp 4.550.000 |
| PJL2 | Boy | 2023-05-25 | Rp 355.000 |

|  |  |  |
| --- | --- | --- |
| **total\_penjualan** | **keterangan\_penjualan** | **id\_karyawan** |
| Rp 4.546.000 | - | 2 |
| Rp 355.000 | - | 2 |

Tabel Lanjutan

**Tabel 3.10** Tabel karyawan

|  |  |  |  |
| --- | --- | --- | --- |
| **id\_karyawan** | **level\_karyawan** | **nama\_karyawan** | **alamat\_karyawan** |
| 2 | Kasir | Dama | Kuningan |
| 1 | Admin | Admin | Kuningan |
| 3 | Pemilik | Pemilik | Rian |

|  |  |  |  |
| --- | --- | --- | --- |
| **kontak\_karyawan** | **username\_karyawan** | **password\_karyawan** | **foto\_karyawan** |
| 082222222222 | kasir | kasir | kasir.jpg |
| 081111111111 | admin | admin | admin.jpg |
| 083333333333 | pemilik | pemilik | pemilik.jpg |

Tabel Lanjutan

Bentuk Normal Ketiga (3NF)

JELASKAN SECARA UMUM 3NF

**Tabel 3.10** Tabel distributor

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **\*id\_distributor** | **nama\_distributor** | **pic\_distributor** | **kontak\_distributor** | **alamat\_distributor** |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST1 | PT Indofood | Aji | 087777777777 | Gg. Kenanga, Bekasi |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
| DST2 | PT Wings Food | Regi | 088888888888 | Jl. Panyawungan, Bandung |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |
| DST3 | PT Arta Boga | Dinar | 089999999999 | Jl. Soekarno Hatta, Bandung |

|  |  |  |
| --- | --- | --- |
| **username\_distributor** | **password\_distributor** | **foto\_distributor** |
| distributor1 | distributor1 | distributor1.jpg |
| distributor1 | distributor1 | distributor1.jpg |
| distributor1 | distributor1 | distributor1.jpg |
| distributor2 | distributor2 | distributor2.jpg |
| distributor2 | distributor2 | distributor2.jpg |
| distributor3 | distributor3 | distributor3.jpg |
| distributor3 | distributor3 | distributor3.jpg |

Tabel Lanjutan

**Tabel 3.10** Tabel bank

|  |  |
| --- | --- |
| **\*kode\_bank** | **nama\_bank** |
| 014 | BCA |
| 008 | Mandiri |

**Tabel 3.10** Tabel rekening

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **\*kode\_rekening** | **an\_rekening** | **no\_rekening** | **\*\*kode\_bank** | **\*\*id\_distributor** |
| REK1 | PT Indofood | 1111111111 | 014 | DST1 |
| REK2 | PT Wings Food | 2222222222 | 008 | DST2 |
| REK3 | PT Arta Boga | 3333333333 | 014 | DST3 |

**Tabel 3.10** Tabel penawaran

|  |  |  |
| --- | --- | --- |
| **\*kode\_penawaran** | **nama\_penawaran** | **tanggal\_penawaran** |
| PNW1 | Penawaran Produk Baru | 2023-05-23 |
| PNW2 | Penawaran Kerja Sama | 2023-05-23 |
| PNW3 | Proposal Kerja Sama | 2023-05-23 |

|  |  |  |
| --- | --- | --- |
| **berkas\_penawaran** | **status\_penawaran** | **\*\*id\_distributor** |
| berkas1.pdf | 2 | DST1 |
| berkas2.pdf | 2 | DST2 |
| berkas3.pdf | 2 | DST3 |

Tabel Lanjutan

**Tabel 3.10** Tabel produk

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **\*kode\_produk** | **status\_penawaran\_produk** | **nama\_produk** | **satuan\_produk** | **harga\_beli\_produk** |
| PRD1 | Diterima | Indomilk | Pak | Rp 193.600 |
| PRD2 | Diterima | Bumbu Racik | Renceng | Rp 15.500 |
| PRD3 | Diterima | Indomie | Dus | Rp 113.300 |
| PRD4 | Diterima | Mie Sedap | Dus | Rp 109.800 |
| PRD5 | Diterima | Floridina | Pak | Rp 56.500 |
| PRD6 | Diterima | Teh Gelas | Dus | Rp 23.800 |
| PRD7 | Diterima | Tanggo | Pak | Rp 9.800 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **harga\_jual\_produk** | **stok\_dis\_produk** | **limit\_dis\_produk** | **stok\_tok\_produk** | **limit\_tok\_produk** |
| Rp 198.000 | 751 | 100 | 14 | 20 |
| Rp 17.850 | 4.545 | 100 | 35 | 20 |
| Rp 117.200 | 624 | 100 | 16 | 20 |
| Rp 115.000 | 355 | 100 | 61 | 20 |
| Rp 59.000 | 653 | 100 | 63 | 20 |
| Rp 25.000 | 467 | 100 | 35 | 20 |
| Rp 10.500 | 246 | 100 | 63 | 20 |

Tabel Lanjutan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **gambar\_produk** | **d\_produk** | **h\_produk** | **lt\_produk** | **au\_produk** | **ss\_produk** | **tanggal\_produk** |
| Indomilk.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Bumbu Racik.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Indomie.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Mie Sedap.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Floridina.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Teh Gelas.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |
| Tanggo.jpg | 123 | 123 | 123 | 123 | 123 | 2023-05-24 |

Tabel Lanjutan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **perubahan\_produk** | **perubahan\_harga\_produk** | **\*\*kode\_kategori** | **\*\*kode\_penawaran** | **\*\*id\_distributor** |
| Baru | 0 | MNMKMS | PNW1 | DST1 |
| Baru | 0 | BMBDPR | PNW1 | DST1 |
| Baru | 0 | MKNINS | PNW1 | DST1 |
| Baru | 0 | MKNINS | PNW2 | DST2 |
| Baru | 0 | MNMKMS | PNW2 | DST2 |
| Baru | 0 | MNMKMS | PNW3 | DST3 |
| Baru | 0 | MKNRGN | PNW3 | DST3 |

Tabel Lanjutan

**Tabel 3.10** Tabel kategori

|  |  |
| --- | --- |
| **\*kode\_kategori** | **nama\_kategori** |
| MNMKMS | Minuman Kemasan |
| BMBDPR | Bumbu Dapur |
| MKNINS | Makanan Instan |
| MNMKMS | Minuman Kemasan |
| MKNRGN | Makanan Ringan |

**Tabel 3.10** Tabel ipembelian

|  |  |  |  |
| --- | --- | --- | --- |
| **\*kode\_ipembelian** | **tanggal\_masuk\_ipembelian** | **qty\_ipembelian** | **harga\_ipembelian** |
| IPBL1 | 2023-05-23 | 100 | Rp 193.600 |
| IPBL2 | 2023-05-24 | 400 | Rp 15.500 |
| IPBL3 | 2023-05-25 | 500 | Rp 113.300 |
| IPBL4 | 2023-05-26 | 500 | Rp 109.800 |
| IPBL5 | 2023-05-27 | 250 | Rp 56.500 |
| IPBL6 | 2023-05-28 | 100 | Rp 23.800 |
| IPBL7 | 2023-05-29 | 350 | Rp 9.800 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **subtotal\_ipembelian** | **status\_ipembelian** | **\*\*kode\_pembelian** | **\*\*kode\_produk** | **\*\*id\_distributor** |
| Rp 9.360.000 | 3 | PBL1 | PRD1 | DST1 |
| Rp 6.200.000 | 3 | PBL1 | PRD2 | DST1 |
| Rp 6.650.000 | 3 | PBL1 | PRD3 | DST1 |
| Rp 4.900.000 | 3 | PBL2 | PRD4 | DST2 |
| Rp 4.125.000 | 3 | PBL2 | PRD5 | DST2 |
| Rp 2.380.000 | 3 | PBL3 | PRD6 | DST3 |
| Rp 3.430.000 | 3 | PBL3 | PRD7 | DST3 |

Tabel Lanjutan

**Tabel 3.10** Tabel pembelian

|  |  |  |  |
| --- | --- | --- | --- |
| **\*kode\_pembelian** | **tanggal\_pengajuan\_pembelian** | **tanggal\_penerimaan\_pembelian** | **total\_pby\_pembelian** |
| PBL1 | 2023-05-24 | 2023-05-25 | Rp 82.210.000 |
| PBL2 | 2023-05-24 | 2023-05-25 | Rp 69.025.000 |
| PBL3 | 2023-05-24 | 2023-05-25 | Rp 5.810.000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **bukti\_pby\_pembelian** | **status\_pby\_pembelian** | **keterangan\_pembelian** | **status\_pembelian** | **\*\*id\_distributor** | **\*\*kode\_rekening** |
| pby1.jpg | Lunas | - | Selesai | DST1 | REK1 |
| pby2.jpg | Lunas | - | Selesai | DST2 | REK2 |
| pby3.jpg | Lunas | - | Selesai | DST3 | REK3 |

Tabel Lanjutan

**Tabel 3.10** Tabel ipenjualan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **\*kode\_ipenjualan** | **qty\_ipenjualan** | **harga\_ipenjualan** | **subtotal\_ipenjualan** | **tanggal\_ipenjualan** |
| IPJL1 | 20 | Rp 198.000 | Rp 3.960.000 | 2023-05-25 |
| IPJL2 | 5 | Rp 117.200 | Rp 586.000 | 2023-05-25 |
| IPJL3 | 10 | Rp 25.000 | Rp 250.000 | 2023-05-25 |
| IPJL4 | 10 | Rp 10.500 | Rp 105.000 | 2023-05-25 |

|  |  |  |  |
| --- | --- | --- | --- |
| **status\_ipenjualan** | **keterangan\_ipenjualan** | **\*\*kode\_penjualan** | **\*\*kode\_produk** |
| Selesai | - | PJL1 | PRD1 |
| Selesai | - | PJL1 | PRD3 |
| Selesai | - | PJL2 | PRD6 |
| Selesai | - | PJL2 | PRD7 |

Tabel Lanjutan

**Tabel 3.10** Tabel penjualan

|  |  |  |  |
| --- | --- | --- | --- |
| **\*kode\_penjualan** | **nama\_penjualan** | **tanggal\_penjualan** | **cash\_penjualan** |
| PJL1 | Anom | 2023-05-25 | Rp 4.550.000 |
| PJL2 | Boy | 2023-05-25 | Rp 355.000 |

|  |  |  |
| --- | --- | --- |
| **total\_penjualan** | **keterangan\_penjualan** | **\*\*id\_karyawan** |
| Rp 4.546.000 | - | 2 |
| Rp 355.000 | - | 2 |

Tabel Lanjutan

**Tabel 3.10** Tabel karyawan

|  |  |  |  |
| --- | --- | --- | --- |
| **\*id\_karyawan** | **level\_karyawan** | **nama\_karyawan** | **alamat\_karyawan** |
| 2 | Kasir | Dama | Kuningan |
| 1 | Admin | Admin | Kuningan |
| 3 | Pemilik | Pemilik | Rian |

|  |  |  |  |
| --- | --- | --- | --- |
| **kontak\_karyawan** | **username\_karyawan** | **password\_karyawan** | **foto\_karyawan** |
| 082222222222 | kasir | kasir | kasir.jpg |
| 081111111111 | admin | admin | admin.jpg |
| 083333333333 | pemilik | pemilik | pemilik.jpg |

Tabel Lanjutan

### Struktur Database

JELASKAN STRUKTUR DATABASE SECARA UMUM

1. Tabel Bank

Nama File/Tabel : bank

Primary Key : kode\_bank

**Tabel 3.9** Struktur Data Bank

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_bank | varchar | 5 | Primary\_Key |
| 2 | nama\_bank | varchar | 50 |  |

1. Tabel Distributor

Nama File/Tabel : distributor

Primary Key : id\_distributor

**Tabel 3.10** Struktur Data Distributor

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | id\_distributor | varchar | 50 | Primary\_Key |
| 2 | nama\_distributor | varchar | 50 |  |
| 3 | pic\_distributor | varchar | 30 |  |
| 4 | kontak\_distributor | varchar | 15 |  |
| 5 | alamat\_distributor | text |  |  |
| 6 | username\_distributor | varchar | 50 |  |
| 7 | password\_distributor | varchar | 50 |  |
| 8 | foto\_distributor | varchar | 255 |  |

1. Tabel Item Pembelian

Nama File/Tabel : ipembelian

Primary Key : kode\_ipembelian

**Tabel 3.10** Struktur Data Item Pembelian

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_ipembelian | int | 10 | Primary\_Key |
| 2 | kode\_pembelian | varchar | 50 | Foreign Key |
| 3 | kode\_produk | varchar | 20 | Foreign Key |
| 4 | id\_distributor | varchar | 50 | Foreign Key |
| 5 | tanggal\_masuk\_ipembelian | datetime |  |  |
| 6 | qty\_ipembelian | float |  |  |
| 7 | harga\_ipembelian | float |  |  |
| 8 | subtotal\_ipembelian | float |  |  |
| 9 | status\_ipembelian | varchar | 20 |  |

1. Tabel Item Penjualan

Nama File/Tabel : ipenjualan

Primary Key : kode\_ipenjualan

**Tabel 3.10** Struktur Data Item Penjualan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_ipenjualan | int | 10 | Primary\_Key |
| 2 | kode\_penjualan | varchar | 50 | Foreign Key |
| 3 | kode\_produk | varchar | 30 | Foreign Key |
| 4 | tanggal\_ipenjualan | datetime |  |  |
| 5 | qty\_ipenjualan | float |  |  |
| 6 | harga\_ipenjualan | float |  |  |
| 7 | subtotal\_ipenjualan | float |  |  |
| 8 | status\_ipenjualan | varchar | 20 |  |

1. Tabel Karyawan

Nama File/Tabel : karyawan

Primary Key : id\_karyawan

**Tabel 3.10** Struktur Data Karyawan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | id\_karyawan | varchar | 10 | Primary\_Key |
| 2 | level\_karyawan | varchar | 10 |  |
| 3 | nama\_karyawan | varchar | 30 |  |
| 4 | alamat\_karyawan | text |  |  |
| 5 | kontak\_karyawan | varchar | 15 |  |
| 6 | username\_karyawan | varchar | 50 |  |
| 7 | password\_karyawan | varchar | 50 |  |
| 8 | foto\_karyawan | varchar | 255 |  |

1. Tabel Kategori

Nama File/Tabel : kategori

Primary Key : kode\_kategori

**Tabel 3.10** Struktur Data Kategori

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_kategori | varchar | 10 | Primary\_Key |
| 2 | nama\_kategori | varchar | 50 |  |

1. Tabel Pembelian

Nama File/Tabel : pembelian

Primary Key : kode\_pembelian

**Tabel 3.10** Struktur Data Pembelian

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_pembelian | varchar | 50 | Primary\_Key |
| 2 | id\_distributor | varchar | 50 | Foreign Key |
| 3 | kode\_rekening | varchar | 10 | Foreign Key |
| 4 | tanggal\_pengajuan\_pembelian | datetime |  |  |
| 5 | tanggal\_penerimaan\_pembelian | datetime |  |  |
| 6 | total\_pby\_pembelian | float |  |  |
| 7 | bukti\_pby\_pembelian | varchar | 255 |  |
| 8 | status\_pby\_pembelian | varchar | 20 |  |
| 9 | keterangan\_pembelian | text |  |  |
| 10 | status\_pembelian | varchar | 20 |  |

1. Tabel Penawaran

Nama File/Tabel : penawaran

Primary Key : kode\_penawaran

**Tabel 3.10** Struktur Data Penawaran

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_penawaran | varchar | 50 | Primary\_Key |
| 2 | id\_distributor | varchar | 50 | Foreign Key |
| 3 | nama\_penawaran | varchar | 50 |  |
| 4 | tanggal\_penawaran | datetime |  |  |
| 5 | berkas\_penawaran | varchar | 255 |  |
| 6 | status\_penawaran | varchar | 10 |  |

1. Tabel Penjualan

Nama File/Tabel : penjualan

Primary Key : kode\_penjualan

**Tabel 3.10** Struktur Data Penjualan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_penjualan | varchar | 50 | Primary\_Key |
| 2 | id\_karyawan | varchar | 19 | Foreign Key |
| 3 | nama\_penjualan | varchar | 30 |  |
| 4 | tanggal\_penjualan | datetime |  |  |
| 5 | cash\_penjualan | float |  |  |
| 6 | total\_pby\_penjualan | float |  |  |
| 7 | keterangan\_penjualan | text |  |  |

1. Tabel Produk

Nama File/Tabel : produk

Primary Key : kode\_produk

**Tabel 3.10** Struktur Data Produk

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_produk | varchar | 30 | Primary\_Key |
| 2 | kode\_kategori | varchar | 10 | Foreign Key |
| 3 | kode\_penawaran | varchar | 50 | Foreign Key |
| 4 | id\_distributor | varchar | 50 | Foreign Key |
| 5 | status\_penawaran\_produk | varchar | 20 |  |
| 6 | nama\_produk | varchar | 50 |  |
| 7 | satuan\_produk | varchar | 30 |  |
| 8 | harga\_beli\_produk | float |  |  |
| 9 | harga\_jual\_produk | float |  |  |
| 10 | stok\_dis\_produk | float |  |  |
| 11 | limit\_dis\_produk | float |  |  |
| 12 | stok\_tok\_produk | float |  |  |
| 13 | limit\_tok\_produk | float |  |  |
| 14 | gambar\_produk | varchar | 255 |  |
| 15 | d\_produk | float |  |  |
| 16 | h\_produk | float |  |  |
| 17 | lt\_produk | float |  |  |
| 18 | au\_produk | float |  |  |
| 19 | ss\_produk | float |  |  |
| 20 | tanggal\_produk | date |  |  |
| 21 | perubahan\_produk | varchar | 20 |  |
| 22 | perubahan\_harga\_produk | float |  |  |

1. Tabel Rekening

Nama File/Tabel : rekening

Primary Key : kode\_rekening

**Tabel 3.10** Struktur Data Rekeing

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Field** | **Type Data** | **Width** | **Description** |
| 1 | kode\_rekening | int | 10 | Primary\_Key |
| 2 | id\_distributor | varchar | 50 | Foreign Key |
| 3 | kode\_bank | varchar | 10 | Foreign Key |
| 4 | an\_rekening | varchar | 50 |  |
| 5 | no\_rekening | varchar | 50 |  |

### Kamus Data

JELASKAN KAMUS DATA SECARA UMUM

**Tabel 3.24** Kamus Data

|  |  |
| --- | --- |
| **Entitas** | **Atribut** |
| bank | :{@kode\_bank+nama\_bank} |
| distributor | :{@id\_distributor+nama\_distributor+pic\_distributor+kontak\_distributor+alamat\_distributor+username\_distributor+password\_distributor+foto\_distributor} |
| ipembelian | :{@kode\_ipembelian+tanggal\_masuk\_ipembelian+qty\_ipembelian+harga\_ipembelian+subtotal\_ipembelian+status\_ipembelian+kode\_pembelian+kode\_produk+id\_distributor} |
| ipenjualan | :{@kode\_ipenjualan+qty\_ipenjualan+harga\_ipenjualan+subtotal\_ipenjualan+tanggal\_ipenjualan+status\_ipenjualan+keterangan\_ipenjualan+kode\_penjualan+kode\_produk} |
| karyawan | :{@id\_karyawan+level\_karyawan+nama\_karyawan+alamat\_karyawan+kontak\_karyawan+username\_karyawan+password\_karyawan+foto\_karyawan} |
| kategori | :{@kode\_kategori+nama\_kategori} |
| pembelian | :{@kode\_pembelian+tanggal\_pengajuan\_pembelian+tanggal\_penerimaan\_pembelian+total\_pby\_pembelian+bukti\_pby\_pembelian+status\_pby\_pembelian+keterangan\_pembelian+status\_pembelian+id\_distributor+kode\_rekening} |
| penawaran | :{@kode\_penawaran+nama\_penawaran+tanggal\_penawaran+berkas\_penawaran+status\_penawaran+id\_distributor} |
| penjualan | :{@kode\_penjualan+nama\_penjualan+tanggal\_penjualan+cash\_penjualan+total\_penjualan+keterangan\_penjualan+id\_karyawan} |
| produk | :{@kode\_produk+status\_penawaran\_produk+nama\_produk+satuan\_produk+harga\_beli\_produk+harga\_jual\_produk+stok\_dis\_produk+limit\_dis\_produk+stok\_tok\_produk+limit\_tok\_produk+gambar\_produk+d\_produk+h\_produk+lt\_produk+au\_produk+ss\_produk+tanggal\_produk+perubahan\_produk+perubahan\_harga\_produk+kode\_kategori+kode\_penawaran+id\_distributor} |
| rekening | :{@kode\_rekening+an\_rekening+no\_rekening+kode\_bank+id\_distributor} |

## Perancangan Antar Muka

JELASKAN PERANCANGAN ANTAR MUKA DIAGRAM SECARA UMUM

### Perancangan Website

#### Perancangan Struktur Menu

Penjelasan

Contoh

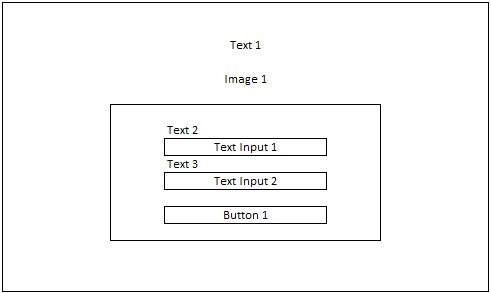


**Gambar 3. 10** Perancangan Struktur Menu Website Pustakawan

#### Perancangan Layout Website Statis

Penjelasan umum

Form Login

****

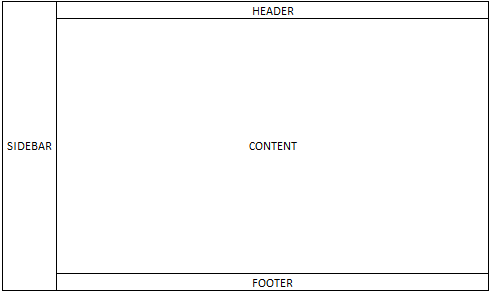
**Gambar 3. 12** Perancangan Layout Login

CONTOH

Keterangan:

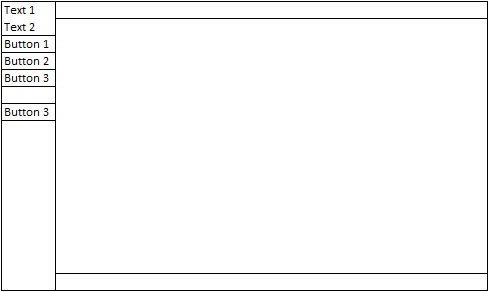
|  |  |  |  |
| --- | --- | --- | --- |
| 1. | *Image 1* | : | Logo sekolah |
| 2. | *Text 1* | : | Teks nama sekolah |
| 3. | *Image 2* | : | Foto profil pengguna *website* |
| 4. | *Button 1* | : | Nama pengguna *website* |
| 5. | *Button 2* | : | Tombol ubah profil pengguna *website* |

Layout *Website*

****

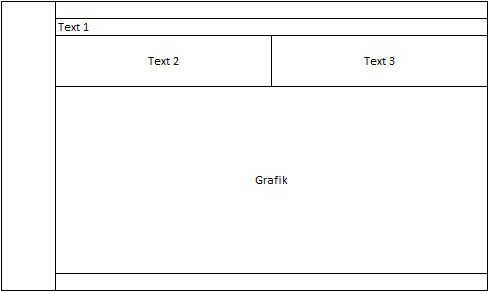
**Gambar 3. 13** Perancangan Layout Website

Sidebar Menu



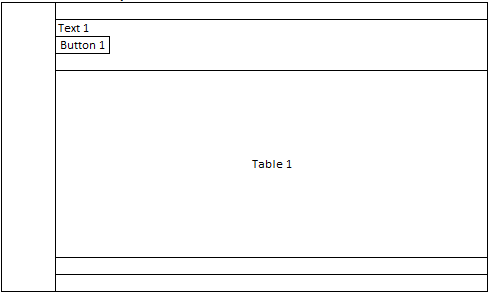
**Gambar 3. 13** Perancangan Sidebar Menu

Halaman *Menu Dashboard*



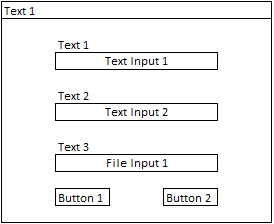
**Gambar 3. 13** Halaman Menu Dashboard

Halaman Menu Video Pembelajaran



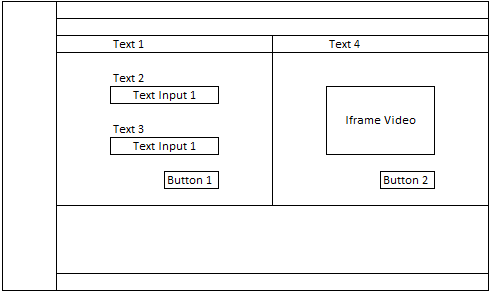
**Gambar 3. 13** Halaman Menu Video Pembelajaran

Halaman *Pop Up* Tambah Data Video Pembelajaran



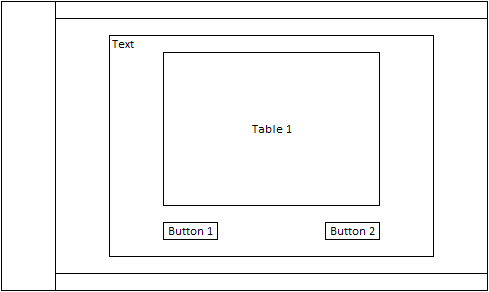
**Gambar 3. 13** Halaman Pop Up Tambah Data Video Pembelajaran

Halaman Edit Data Video Pembelajaran



**Gambar 3. 13** Halaman Edit Data Video Pembelajaran

Halaman Cetak *QR Code*

****

**Gambar 3. 13** Halaman Cetak QR Code

### Perancangan Andorid

Penjelasan

#### Perancangan Struktur Menu

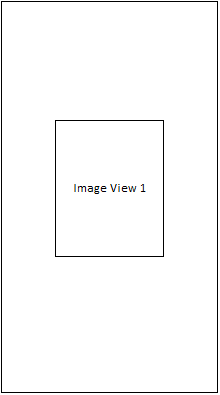
Penjelasan



**Gambar 3. 10** Perancangan Struktur Menu Android

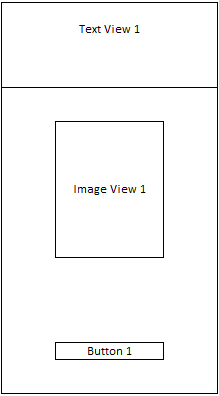
#### Perancangan Layout Andorid

Halaman Splash



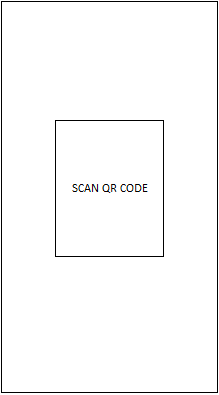
**Gambar 3. 13** Halaman Splash

Halaman Menu Utama



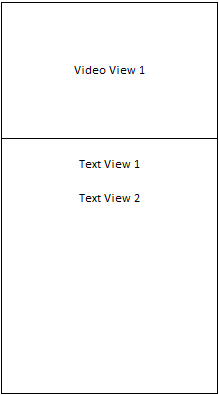
**Gambar 3. 13** Halaman Menu Utama

Halaman Scan QR Code



**Gambar 3. 13** Halaman Scan QR Code

Halaman Video Player



**Gambar 3. 13** Halaman Video Player