SISTEM INFORMASI SISTEM

KEAGENAN GAS ELPIJI

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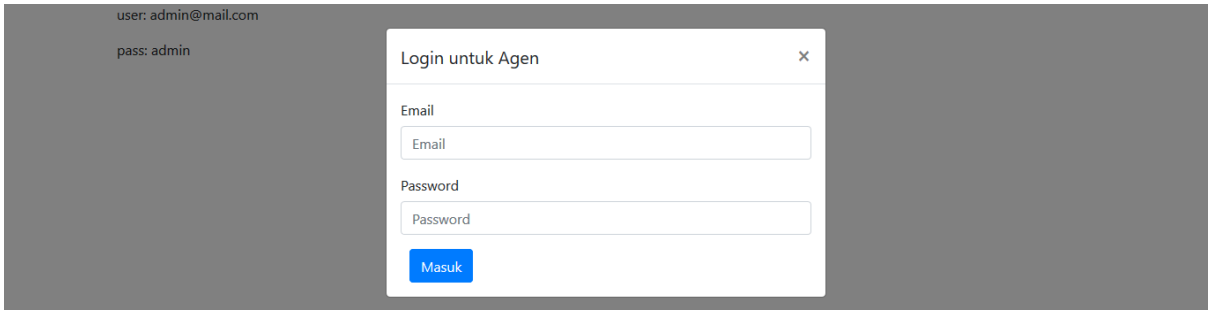
FAKULTAS ILMU KOMPUTER
UNIVERSITAS ESA UNGGUL
2019

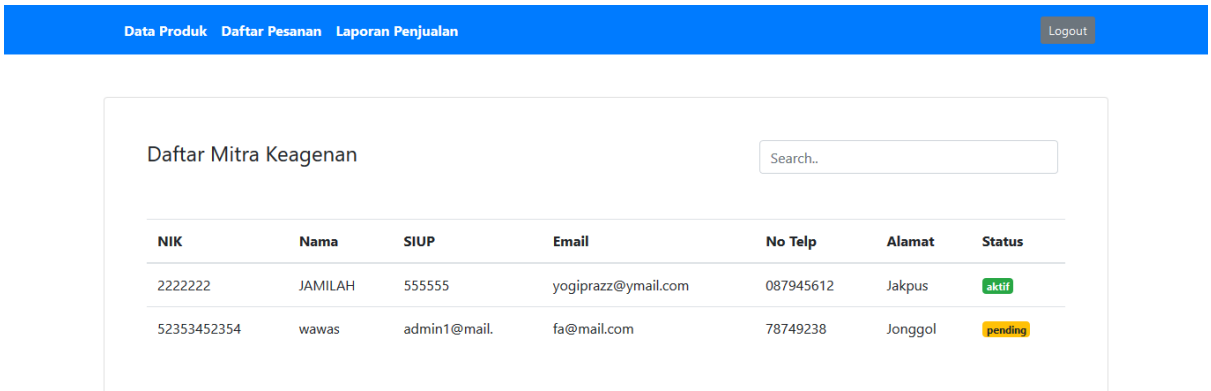
Kebutuhan Fungsional

A. PT XYZ

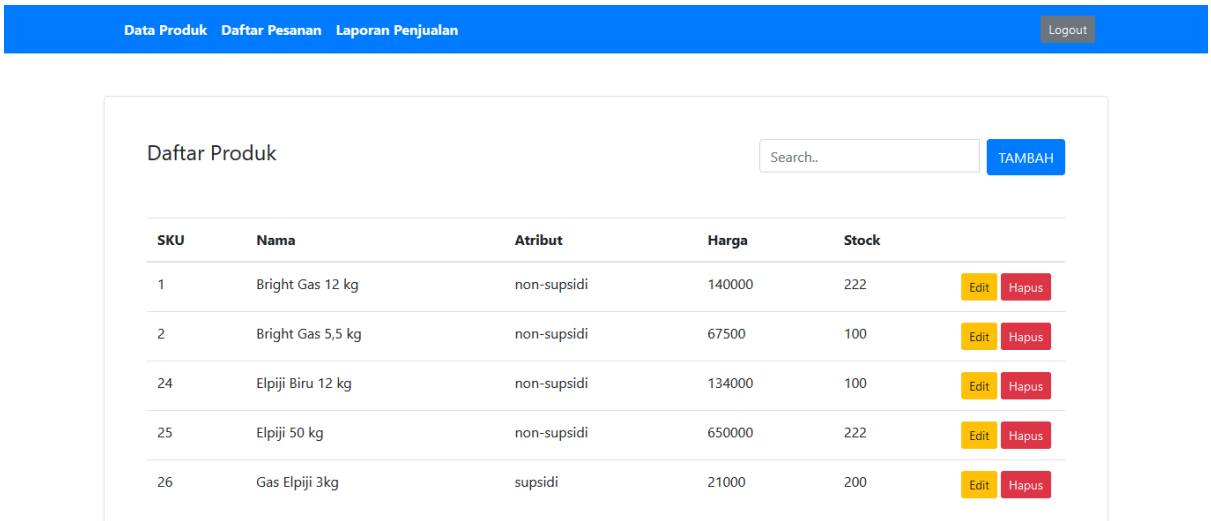
1. Login



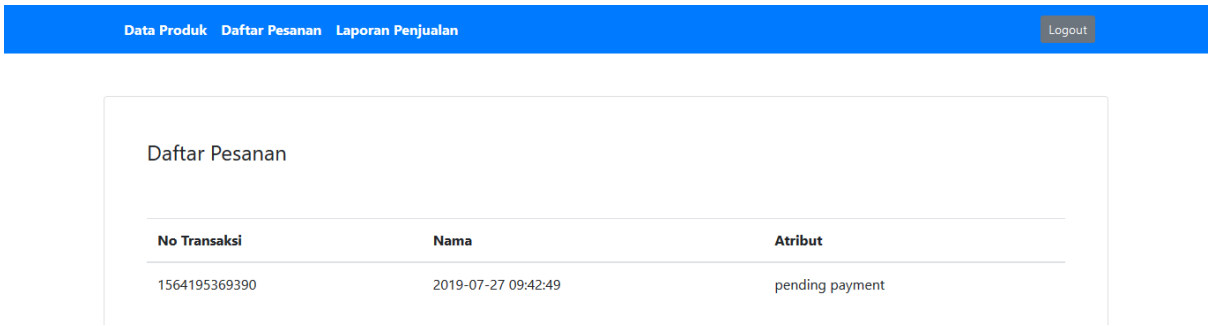
2. Mengelola Data Agen



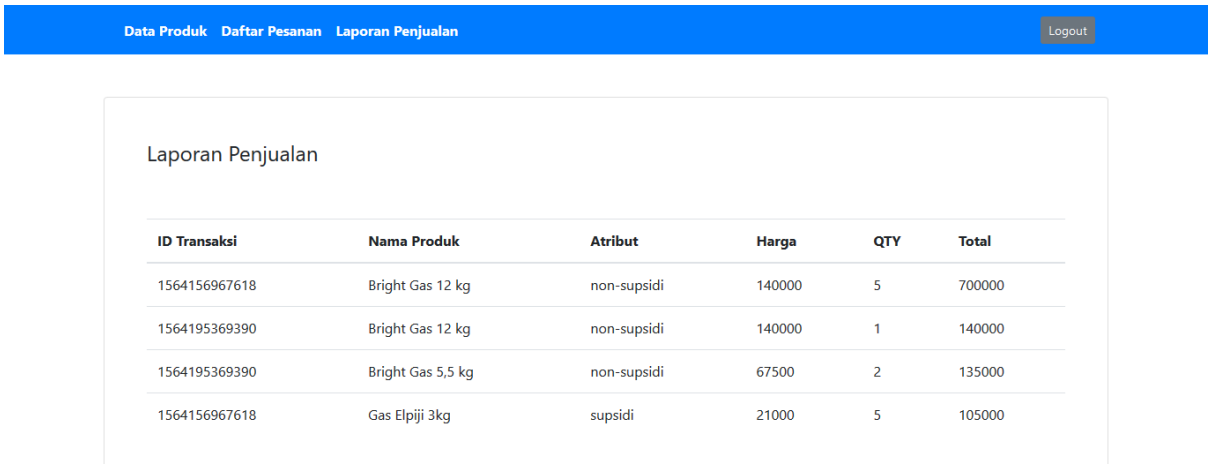
3. Data Master - Mengelola Data Produk (Gas LPG)



4. Mengelola Transaksi Penjualan

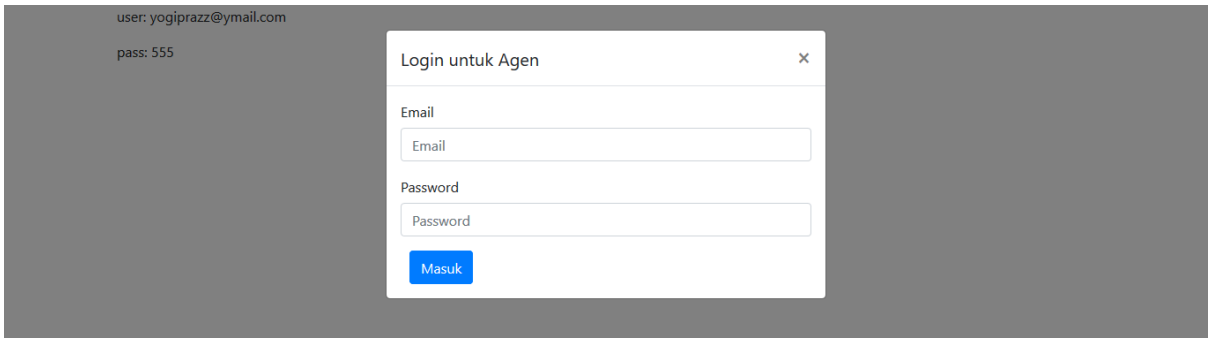


5. Laporan Penjualan

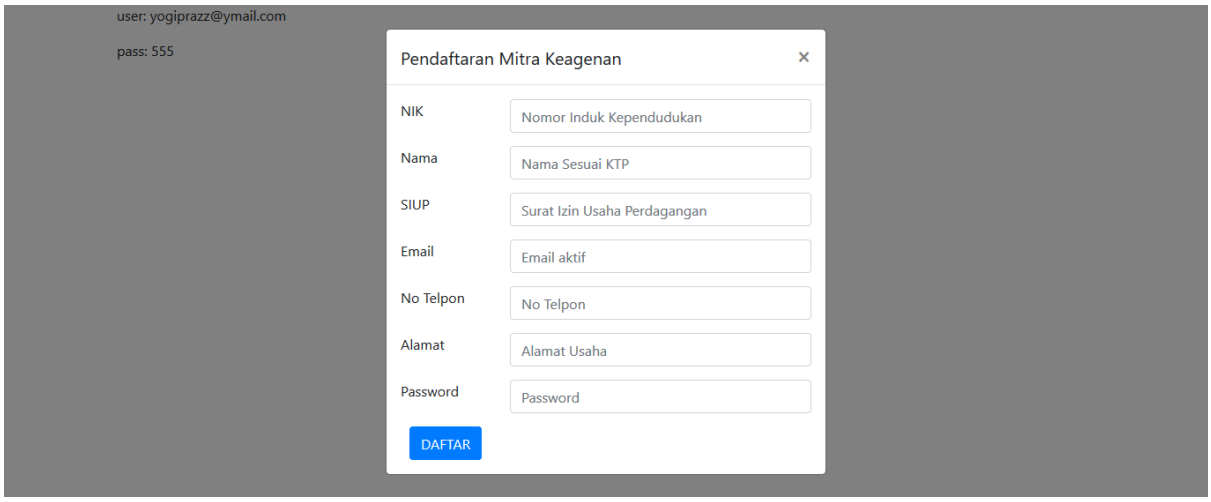


B. Mitra Agen

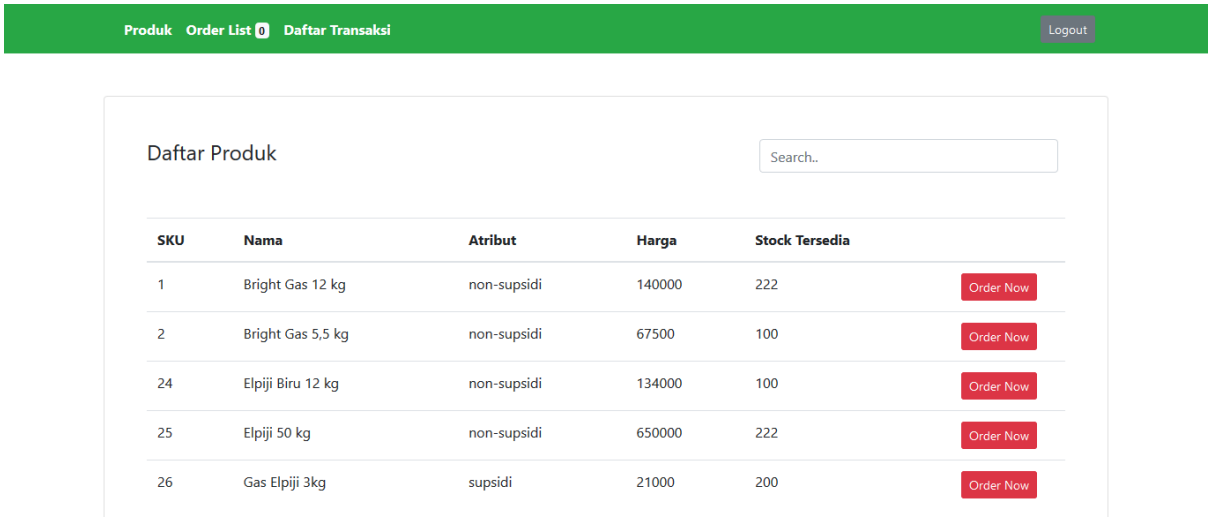
1. Login



2. Pendaftaran



3. Pemesanan Gas Elpiji



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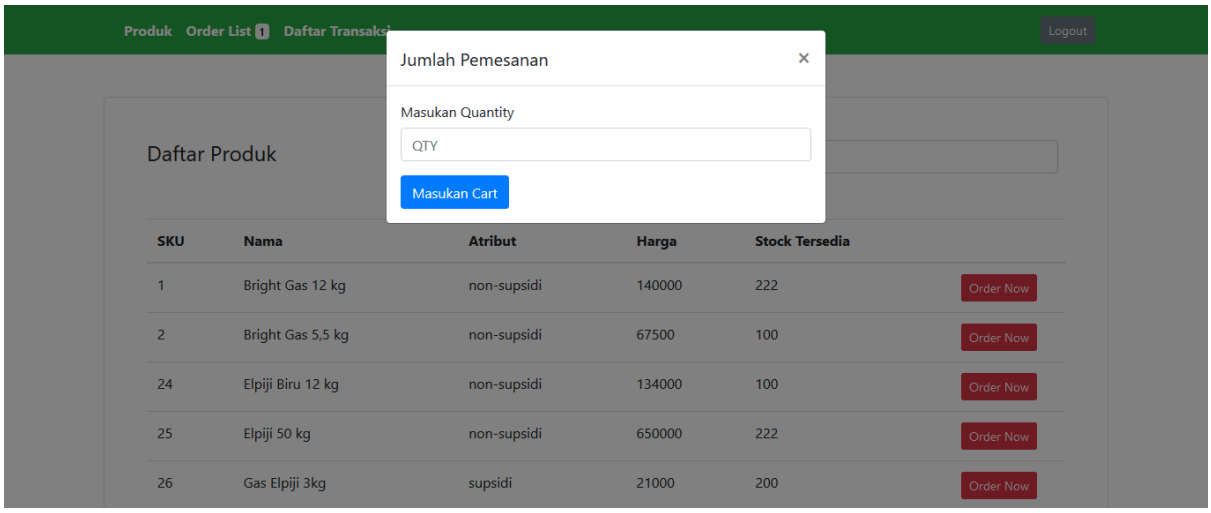


4. Transaksi Pembayaran

Produk Order List 2 Daftar Transaksi Logout

Daftar PO

Nama Barang	Atribut	Harga	Quantity	Total
Bright Gas 12 kg	non-supsidi	140000	5	700000
Gas Elpiji 3kg	supsidi	21000	20	420000
		Grand Total:		**1120000**

BAYAR

5. Histori Invoice Pemesanan

Produk Order List 2 Daftar Transaksi Logout

Daftar Pesanan

ID ORDER	Tanggal	Status Pembayaran
1564156967618	2019-07-26 23:02:47	dibayar
1564195369390	2019-07-27 09:42:49	pending payment
1564197219856	2019-07-27 10:13:39	pending payment

B. Pertamina

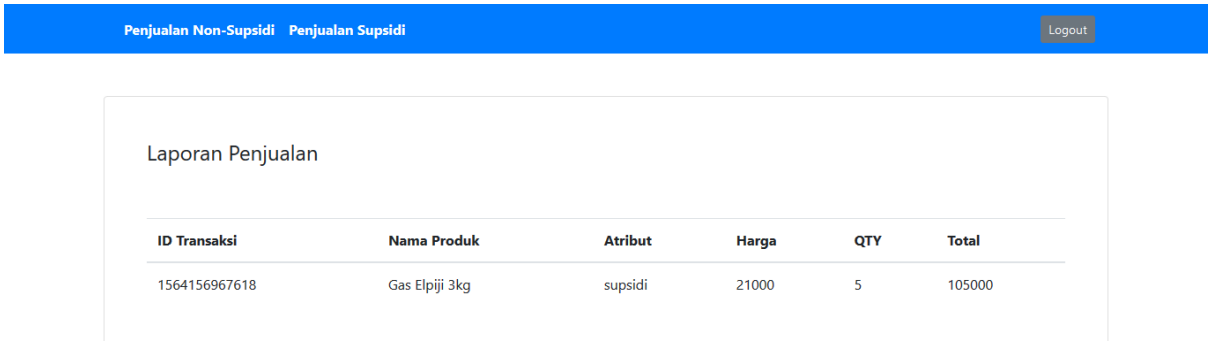
1. Laporan Penjualan Elpiji (Non Subsidi)

Penjualan Non-Supsidi Penjualan Supsidi Logout

Laporan Penjualan

ID Transaksi	Nama Produk	Atribut	Harga	QTY	Total
1564156967618	Bright Gas 12 kg	non-supsidi	140000	5	700000
1564195369390	Bright Gas 5,5 kg	non-supsidi	67500	2	135000
1564195369390	Bright Gas 12 kg	non-supsidi	140000	1	140000
1564197219856	Bright Gas 12 kg	non-supsidi	140000	1	140000
1564197219856	Bright Gas 12 kg	non-supsidi	140000	3	420000

2. Laporan Penjualan Elpiji (Subsidi)

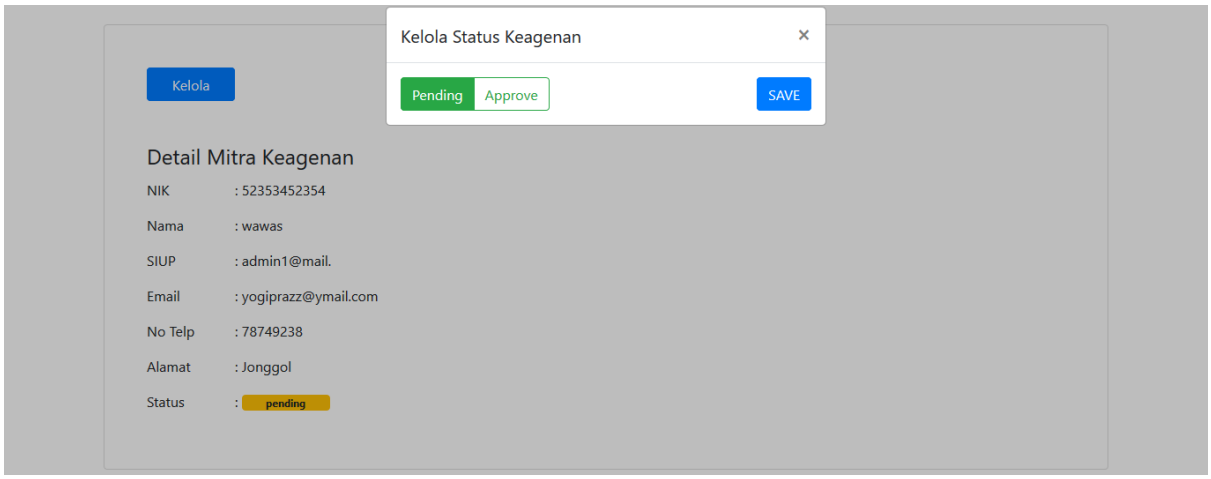


Kebutuhan Non Fungsional

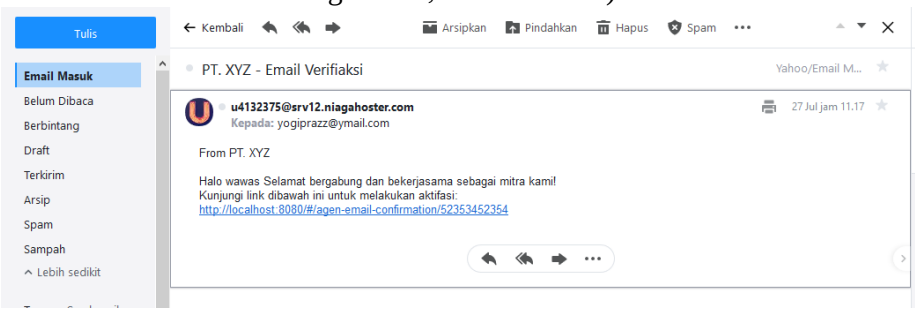
1. Verifikasi Email Konfirmasi Otomatis

Flow verifikasi:

1. Agen daftar > status akun "pending"
2. Admin akan melakukan aktifasi > status akun "approve"
3. Sistem akan mengirimakan email konfirmasi
4. Agen klik link aktivasi > status akun "aktif"

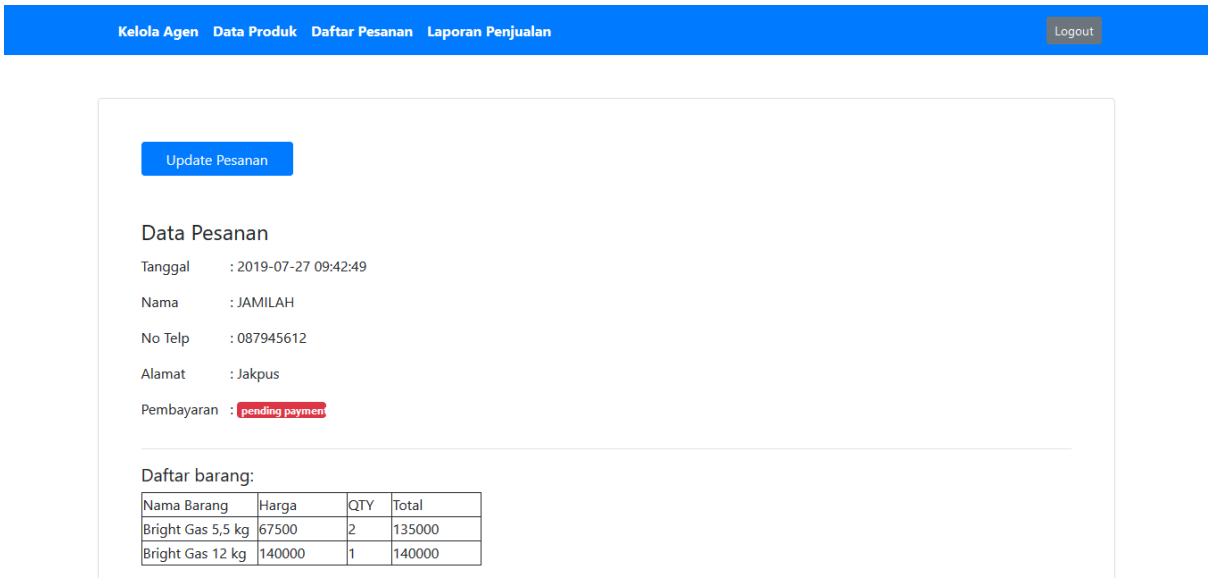


- Capture email konfirmasi (test di localhost dengan *xampp* masuk spam. Contoh dibawah REST API sudah live di niagahoster, **masuk inbox**)

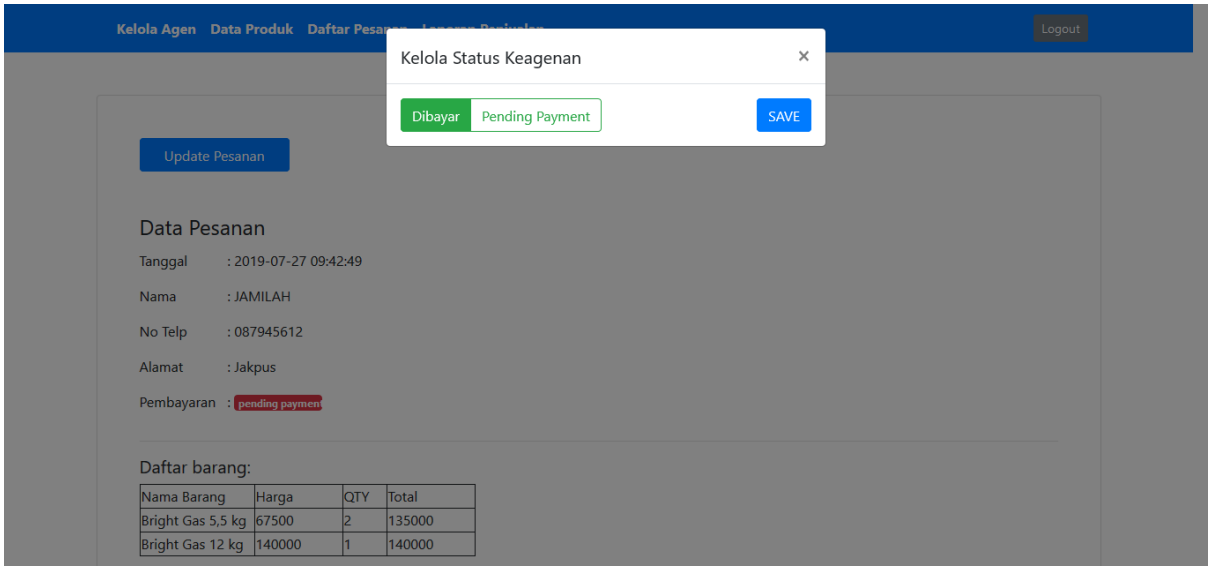


2. Validasi Transaksi

- Cek pesanan

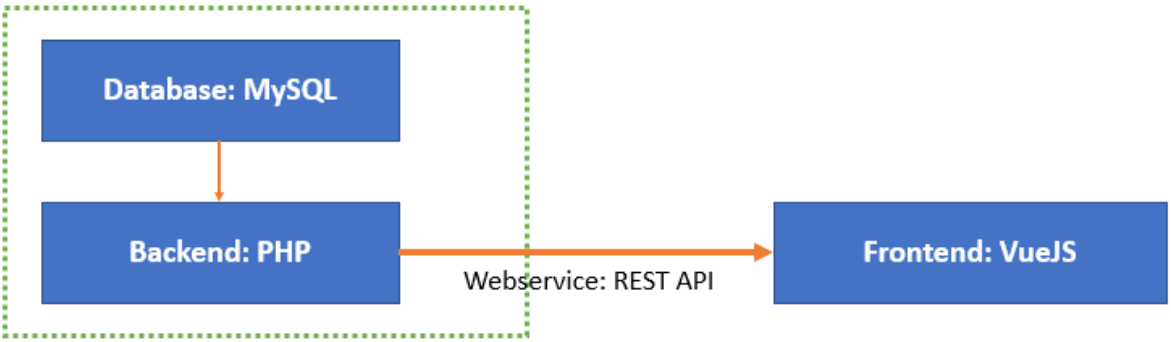


- Validasi pembayaran



3. Webservice: Pemrosesan Data Tersebar

Semua fitur backend merupakan Webservice. Arsitekturnya sebagai berikut:



Database Log History

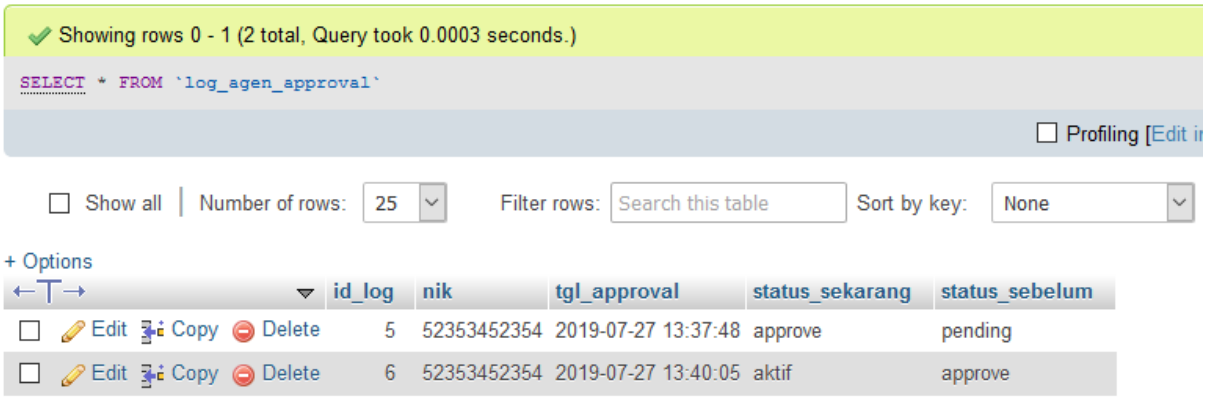
1. Trigger Database

Tabel **agen** di-*trigger* oleh tabel `log_agen_approval` untuk merecord waktu perubahan status keagenan.

Sample source coding:

```
DELIMITER $$
CREATE TRIGGER agen_approval
    BEFORE UPDATE ON agen
    FOR EACH ROW
BEGIN
    INSERT INTO log_agen_approval
    set nik = OLD.nik,
    status_sebelum = OLD.status,
    status_sekarang = new.status,
    tgl_approval = NOW();
END$$
DELIMITER ;
```

Capture:



Live Demo

https://yogiprsetya.github.io/demo-elpiji/index.html