

Buy/Sell Signal System - Functional Overview

This document explains how the Buy/Sell signal system works based on client requirements. It does not execute trades, but instead visualizes and alerts based on trading strategies defined in TradingView.

Signal Flow Summary

1. Client configures a Buy/Sell strategy in TradingView using indicators (e.g., MACD, RSI).
2. TradingView sends alerts to a secure Webhook (your backend endpoint).
3. The backend validates and stores the alert data in Supabase (signals table).
4. The frontend TradingView Lightweight Chart fetches signals and overlays them as markers.
5. Users can enable alerts (via email, SMS, or push) for new signals.
6. Optional: A tracker calculates hypothetical performance (gain/loss) based on historical signals.

Example Webhook Payload from TradingView

```
{  
  "symbol": "BTCUSDT",  
  "price": 67000,  
  "type": "buy",  
  "time": "2025-06-28T10:35:00Z",  
  "note": "MACD crossover"  
}
```

Key Notes

- Signals are visual aids, not actual trades.
- Webhook uses a secret token for security.
- Signals stored in Supabase `signals` table.
- Alerts sent via Twilio, OneSignal, Email.
- Frontend overlays markers using TradingView chart.
- Optional: Show profit/loss from historical signals.