

Buy/Sell Signal Flow + Required Frontend Actions

How Buy/Sell Signals Work (Data Flow + Pages Involved)

1. Signal Generation:

- Buy/Sell signals are generated either manually by admin or via external TradingView alerts.
- Signals come via webhook (HTTP POST) to your secure backend endpoint.

2. Backend Processing:

- Backend validates signal using secret token.
- Stores it in Supabase table: `buy_sell_signals` (with timestamp, price, type, ticker).

3. Frontend Display:

- Dashboard fetches these signals and overlays them on the TradingView chart using custom markers.
- Historical signals are shown as past markers, and recent ones can be shown in real-time.
- Markers are dynamic: green = buy, red = sell, tooltip shows time/price.

4. Alert System (Optional Page: `/alerts` or via modal):

- Users choose if they want to be notified via:
 - Email (SendGrid)
 - SMS (Twilio)
 - Push Notification (OneSignal)
- Triggered when new signal is stored.
- User preferences are saved via Supabase and respected per delivery type.

5. Signal Logs (Admin Panel):

- Admin can monitor recent signals sent, their delivery status, and add new ones manually for testing or premium users.

Additional Pages/Components Recommended:

- Alerts Page: for user alert preferences

- Signal Details Modal: show a popup when a marker is clicked with full metadata
- Admin Manual Signal Editor (form to push new signal)

Summary of Affected Pages:

- /dashboard Chart with markers + signal overlay (main view)
- /alerts User preferences for notification (optional page)
- /admin Signal log, manual inject form, ticker controls