

Automation Title -- Crypto Watcher System → Multi-Channel Alerts + Dashboard Sync

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Category - FinTech Automation / Monitoring & Alerts

Detailed Description

The Crypto Watcher system is a real-time coin monitoring automation that tracks selected cryptocurrencies, checks for market changes, and delivers alerts through multiple channels while updating a live dashboard.

Users begin by entering coin details into a Google Sheets watchlist, including coin name/ID, symbol, percentage threshold, watch status, and preferred notification channels (Telegram, Gmail, or both).

Once the sheet is updated, the automation fetches real-time data (price, market cap, 24h change, trending status, etc.) from a crypto API. It compares this data against the user-defined threshold and watch status.

If the coin meets the trigger conditions (e.g., trending, threshold crossed, or actively watched), the system automatically sends a formatted alert message to Telegram and/or Gmail and logs the latest coin data to a Supabase database.

Your Lovable UI dashboard then reads the data from Supabase and displays a beautiful, real-time view of all watched coins—complete with price, volume, 24h change, trending status, and last updated time.

This creates a complete **end-to-end crypto monitoring solution** with automated data ingestion, notifications, database storage, and a live front-end dashboard.

How It Works (Functionality)

User Input (Google Sheets Watchlist)

User provides:

- **coin_id** (e.g., btc, eth, sol)
 - **name** (Bitcoin, Ethereum...)
 - **symbol**
 - **watch threshold (%)** (positive or negative)
 - **watch status:** Watched / Not Watched
 - **notification_channels:** Telegram, Gmail, or both
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Automation Workflow (Make.com Scenario)

1. Fetch Trending Coins (HTTP Module)

Fetches global “trending coins” list via API → used to determine whether each watched coin is currently trending.

2. Iterator

Iterates through each trending coin to prepare matching logic.

3. text aggregator (Tools)

Combines relevant trending IDs into a list used for quick coin matching.

4. Search Sheet Rows (Google Sheets)

Matches each watched coin (coin_id) against the sheet record.
If the coin is set to “Watched,” the workflow continues.

5. Build Coin Summary (Tools)

Aggregates:

- name
 - symbol
 - user threshold
 - trending status
 - watch status
- Into a formatted text block.
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6. Fetch Markets (HTTP Module)

Fetches full real-time market data for the coin:

- current price
 - 24h volume
 - market cap
 - 24h % change
 - image
 - total traded volume
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7. Iterate Market Data

Loops through the returned market details.

8. Search Sheets (Google Sheets)

Re-validates the coin row and ensures watch status hasn't changed.

9. Output

Prepares the final notification message including:

- Coin name
 - Symbol
 - Current price
 - Threshold crossed
 - Trending status
 - Market cap, volume
 - Timestamp
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10. Router → Multi-Channel Notifications

Branch 1 — Telegram Bot Message

If "Telegram" is included in notification_channels:

- Sends real-time alert to personal Telegram Chatbot
 - Message includes complete coin statistics and trending indicator
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Branch 2 — Gmail Notification

If "Email" (gmail) is selected:

- Sends formatted HTML email
 - Includes coin name, price, 24h change, trending flag
 - Subject example:
Crypto Alert: Bitcoin is Trending!
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11. Supabase Upsert (Database Sync)

Every coin record gets saved or updated in Supabase:

- coin_id
- name
- symbol
- current_price
- market_cap
- volume
- 24h change
- trending_status
- last_updated

Supabase acts as the backend data source for your UI.

12. Lovable UI Dashboard (Frontend)

Your Lovable-made dashboard automatically reads data from Supabase and displays:

- Coin image
- Name + symbol
- Current price
- Market cap
- 24h volume
- 24h change
- Status: Trending / Not Trending
- Last updated time

This gives a clean, professional Monitoring Dashboard.

Tools Required

- **Google Sheets** – User input + watchlist
- **Make.com** – Automation engine
- **Crypto API (Coingecko / CoinMarketCap / etc.)** – Market + trending data
- **Telegram Bot** – Real-time alerts
- **Gmail** – Email notifications
- **Supabase** – Cloud database
- **Lovable (UI App Builder)** – Frontend dashboard

Size of Project

Large (10+ modules + UI + database)

Setup Requirements

Google Sheets

Columns:

- coin_id
- name
- symbol
- watch threshold
- watch

-
- notification_channels
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Make.com Workflow

Modules used:

- HTTP x3 (Trending, Markets, Supabase)
 - Google Sheets x2
 - Tools (Aggregator, Formatter)
 - Iterator
 - Router
 - Telegram Bot
 - Gmail
 - Supabase Upsert
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Supabase

Table: **crypto_watcher**

Columns:

- coin_id
 - name
 - symbol
 - current_price
 - market_cap
 - total_volume
 - change_24h
 - trending_status
 - last_updated
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Lovable UI

Uses Supabase API:

Displays list of all watched coins with filtering and search.

Deployment Time Estimate

- **Workflow Setup:** 2–3 hours
- **Supabase Integration:** 30–45 mins
- **Lovable UI Build:** 1–2 hours
- **Total:** ~5–6 hours

Value Proposition

This automation gives you:

- Real-time crypto monitoring
- Zero manual checking
- Automated alerts when thresholds are crossed
- Multi-channel notifications
- A professional dashboard showing all metrics
- Persistent data storage for analytics

Who benefits:

- Traders
 - Analysts
 - Crypto enthusiasts
 - Developers building portfolio tools
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Known Limitations

- Crypto APIs may rate limit certain request frequencies
 - Trending API changes may require maintenance
 - Supabase row updates require valid API keys
 - Telegram bot must remain active
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Size Classification

Large Automation (10+ tasks + database + frontend)

Estimated ROI

If manual monitoring takes ~10 minutes per coin per check:

- For 10 coins → 100 minutes saved per check
- With 6 checks/day → **600 minutes (10 hours) saved daily**

Estimated monthly savings:

~300 hours

If billed at \$20/hour:

\$6,000 productivity value/month