# MAG7 Trading System - Feature Roadmap & Build Log

## 📅 Last Updated: 2025-06-13

## ✅ Phase 1: Core Infrastructure

### ✅ Completed

* TastyTrade authentication with token cache
* TimescaleDB integration
* Insert quote ticks with UTC timestamps
* Logging of raw ticks to timestamped .log files in /log
* Symbol loading from symbols.default.json
* Console tick display

### ⏳ In Progress

* C# WebSocket Proxy to stream tick data to frontend
* Relay live ticks from TastyTradeQuoteClient to QuoteStreamHub
* Launch WebSocket server on ws://localhost:5000/stream

## ✅ Phase 2: UI + Option Data

### ✅ Completed

* React-based tabbed UI
* Live quote table with:
  + Symbol, Bid, Ask, Last, Volume, Timestamp
* Configurable options\_symbols.json

### 🔜 Next

* Add UI tabs: [Quotes] [Options] [Strategy]
* Options Chain Viewer with:
  + Call/Put toggle, IV, Bid/Ask, Greeks (Δ Γ Θ Vega), OI, DTE
* Match quote ticks with prior close (Δ%)
* Add relative volume metric (relVol)
* Add 3-day high/low logic and display

## ✅ Phase 3: Strategy Modules

### Planned

* MAG7 Smart Entry (range breakout + Greeks)
* Fat Tail Protocol (Coach Ernie)
  + Detect 2-3σ setups, load convex fly candidates
* Convexity Monitor
  + Skew steepness, IV curve slope, GEX conflict
* Exit Logic:
  + VWAP reversal, RSI cooling, volume cliffs

## ✅ Phase 4: Operations + Monitoring

### Planned

* Secure .env-style config overrides
* Add TimescaleDB cleanup (logs, tick roll-off)
* Export logs to compressed .gz archives
* Add OxyPlot/Grafana dashboarding (optional)
* Add trade log importer for manual reviews

## Notes for Collaboration Across Machines

* Use GitHub repo to track code and configs
* config/ folder safe to sync
* Keep appsettings.json local (gitignored)
* Save this file as /Guides/mag7\_system\_plan.md
* Export PDF or copy to Notion after each major session

## 🧠 Future Wishlist

* Paper trade simulator with replay mode
* Strategy playground with live preview
* Daily planner for setups + triggers
* Trade log scoring with GPT insights
* Visualizer for convex risk profiles

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