

Functional Requirements Specification: FDA-Linked Options Trading Dashboard

1. Overview

The dashboard provides visibility into open options trades, links them to FDA/EMA events, tracks trade performance, and surfaces upcoming trading opportunities. It integrates real-time market data and decision tracking into a centralized, interactive tool.

2. Active Positions Panel

Purpose:

Monitor all open options trades with real-time updates and contextual links to catalysts.

Requirements:

- Display for each position:
 - Ticker symbol
 - Strategy type (e.g., straddle)
 - Entry price, quantity, date
 - Current implied volatility (IV)
 - Current market value / P&L
- Link each position to associated drug/company/event
- Real-time price updates
- Break-even graph:
 - Payoff curve at expiration
 - Overlay current price
 - Show break-even thresholds

3. Upcoming Opportunities Panel

Purpose:

List upcoming FDA/EMA decisions that may present trading opportunities.

Requirements:

- Show: Drug name, company, ticker, expected announcement date, event type
- Optional: Sentiment/confidence score, position status

4. Trade History / Journal Panel

Purpose:

Review closed trades for performance evaluation.

Requirements:

- Show metadata from active positions
- Include close date, realized P&L, event outcome
- Allow filtering by strategy, outcome, time, ticker

5. Event Management Panel (Optional)

Purpose:

Handle raw scraped event data and allow for manual adjustments.

Requirements:

- View/edit scraped events
- Manually link events to trades
- View source URLs and metadata

6. Dashboard-Level Features

- Real-time updates
- Search/filter capabilities
- User authentication (optional)
- Responsive desktop UI
- Export history to CSV

7. Stretch Features (Optional)

- Sentiment analysis from article text using LLM
- Notification system:
 - Email, SMS (via Twilio), Slack/webhooks
 - Triggered by:
 - Imminent catalyst
 - Major price/IV change
 - P&L threshold hit
- Strategy backtesting module