

Forex Mercatus Codex — Research Terminal

Architecture skeleton · 2026-10-02

Executive framing

Forex Mercatus Codex (FMC) is marked complete as a local-only paper-trading research terminal on 127.0.0.1:8790 (Python luxgex server + static web desk). This brief is an employer-facing architecture read of the shipped tree — not a feature reopen. Synthetic paper data by default; market feeds optional.

System thesis

Treat FMC as a quant research control loop: market/synthetic feeds → feature panels (GEX, flow, COT) → journal/agents/study surfaces → on-demand dossier PDF. Ranking and 'AGI' panels are research simulators inside luxgex — evaluate as paper-trading pedagogy, not live brokerage.

RUNTIME · :8790

run.py → luxgex.server.main
http.server + /api/* routes
Static luxgex/web desk
Data under ~/.fx-mercatus-codex/
Load-optimized local bind
Status: product complete

RESEARCH · PANELS

Chart / Multi / Whales
GEX · order flow · COT
Journal · Study · Bot
Agents · AI · Guide/PDF
Highcharts vendored
Paper engine default

SUITE · BUNDLES

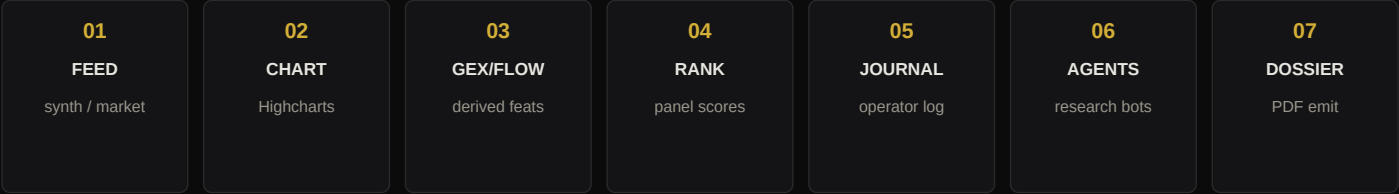
Quant Desk / Aureum EO pages
Creative suite copies bundled
Godmode showcase shell
Dossier PDF generator
No npm build step
Interview cue cards aside

Non-goals (explicit)

- Not a live brokerage or guaranteed market-data SLA.
- Not a reopen of feature work — brief only for employer portfolio.
- Outer ARCHITECTURE.md describing a different React app is not the FMC runtime manifest.

Schematic A — Control loop

feed → analyze → journal → agent hint → dossier



Local-only paper terminal · optional feeds · no DreamHost hard claim from Mac Launch.command

ML / systems vocabulary (as designed)

Paper engine	Simulated fills/positions for research — not exchange connectivity.
Feature panels	GEX, order flow, COT, macro as analytical views over feed state.
Agentic research	Bot/agent modules propose study actions; human remains operator.
Retrieval desk	Dossier/library JSON under luxgex/data as knowledge artifacts.
Latency budgets	Local API RTT; chart refresh vs operator attention — not HFT.
Evals (designed)	Journal completeness, dossier faithfulness, feed failover to synth.

Schematic B — Runtime topology

Python luxgex · 20 modules · static web · :8790

LAUNCH

python3 run.py
Default 127.0.0.1:8790
README: local-only FMC
Launch.command Mac-path hardcoded
Not portable as-is to shared host
Status: complete local product

SERVER · LUXGEX

HTTP + JSON APIs
paper engine, feeds, GEX
order flow, journal, auth
strategies, study, agents
reportlab dossier path
stdlib-heavy runtime

WEB DESK

index.html FMC nav
30 JS / 8 HTML / 6 CSS
Highcharts vendor tree
godmode + apps hub pages
MP4 renders bundled
No React build in FMC core

Employer reading surface

Position FMC as a finished local research terminal with a broad analytical surface area. Be explicit that paper trading ≠ live brokerage, and that Mac Launch.command paths are inventoried quirks.

OPERATOR CADENCE (DESIGNED)

Boot :8790 → Tour → Chart → Flow/GEX → Journal note → optional dossier PDF
Agents/Bot panes are research assistants under human supervision
No claim of 24/7 cloud uptime — local process lifetime

Eval plan · risks · portfolio note

[How to read this artifact](#)

Evaluation axes (when live / under demo)

- API surface completeness vs luxgex route inventory.
- Paper ledger consistency after simulated fills.
- Dossier PDF generation without crashing reportlab path.
- UI panel load under large history payloads (load-optimized goal).

Primary risks

- Readers confusing paper PnL with live trading performance.
- Hard-coded Mac paths in Launch.command.
- Mis-citing outer React ARCHITECTURE.md as FMC runtime.

PORTFOLIO READING GUIDE

Employer skeleton for Forex Mercatus Codex: local paper research terminal on :8790, product-complete.
Pair with fx-mercatus-codex-INVENTORY.md and luxgex tree. Feature reopen is out of scope.
Honest line: complete as local research product — not a brokerage.