Public

Vector Store 1: News

...
...
...
...

Public

DB: All Agent Actions

Private

Vector Store 2: Reflection

...
...
...
...

Private

DB: Agent Assets

Ag. 1: { "Liq.": ..., "AAPL": ... }

...
...

Pipeline:

Every "15" mins: *

Unembedded docs from 15 min time span → "Town Crier" Agent (sum up segment) →

```
" { "Summary": "...",
  "Stocks": ["...", ...],
  "RAG_Qs":
   { "News": ["...", ...],
     "Insights": ["...", ...] }
}
```

Doc Retrieval:
Vec. Store 1: Old News* related to stocks, industry, etc.
Vec. Store 2: How have I performed on these trades in past? (Individualized)

→ Town Crier summ. old news

* Make sure to select only from before the 15-min timespan. Time buffer (hr? day? month?) TBD.

* Is 15 mins our time pd? Should it be longer? Is it realistic that all traders will make decisions every 15 mins?

* How to enforce proper math? Also cooldown on trades?

15 Minute Brief:
News Summary: ...
Stocks discussed: ... ← Historical Market API / Simulation Price?
Your current bal: ... * ← Agent Assets (Agent ID)
Your last trades: ... ← All Agent Actions (Agent ID)
Historical Context: ...
Your performance reflections: ...

Order Instructions:
...

* Can also have no actions

Agent Personality A | Agent Personality B | Agent Personality C | ...

```
{ "Actions":
   ["Buy/Sell",
    "# Shares",
    "Stock"],
   ...
}
```

```
{ "Actions":
   ["Buy/Sell",
    "# Shares",
    "Stock"],
   ...
}
```

```
{ "Actions":
   ["Buy/Sell",
    "# Shares",
    "Stock"],
   ...
}
```

→ Market Simulator → For collective forecasting purposes, log state of sim. vs actual market → All Agent Actions

Reflection Pipeline (For each agent) * Note: How often do we run this? 2x a day? At end of financial day?

Retrieve market info for the day, all trades made by agent * → Agent Per. A Reflect. → Reflection → Store in Vector DB Reflections metadata: timestamp + agent ID

* will this need to be summarized first too?