

Aggregate Boundary Justification

We chose Users as the main document in MongoDB because everything in our platform starts with the user. Below are five main reasons for this design:

1. User-centric system - Every action in our system (like buying stocks, managing portfolios, or setting alerts) is done by users. So it makes sense to keep all their related data in one place.
2. Fast access - By storing portfolios, transactions, and alerts inside the user document, we can show all information quickly without running complex joins like in SQL.
3. Easy dashboard creation - It becomes simple to build a user dashboard that shows everything at once (their stocks, recent trades, alerts, etc.).
4. Real-time performance - Since MongoDB is fast with document reads, the user can get all their data in real-time, which is helpful in financial apps.
5. Scalable design - As our app grows with more users, MongoDB's document-based model will make it easier to manage and store each user's data independently.

This structure helps us meet our business goal - to give each user a smooth, fast, and organized way to manage their investments.