

Stock Price Ticker

Functional Req: 1) Given third party sources which have apis providing stock details, create a unified interface which displays stock prices of different companies
2) Users should see prices of stocks of only those companies for which they registered

Non Functional Req: 1) Low latency in updating prices
2) Scalable and Highly available

Storage Model

Preferably NoSQL for stock prices K-V store where Key is company and value is stock price. This also assists in partitioning data over companies. Also Preferring NoSQL because of high R-W traffic which will not be as good with Relation table model.

SQL with indexing to store customer information and whenever customer comes online, search the index to fetch interested companies and load the information in REDIS cluster. Also stock provider information can be stored in SQL since its not frequently updated.

