

Initial Requirements

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This project has many considerations outside of the specification provided by DayTrading Inc. Obstacles include:

- How money is stored in the system
- How quotes can be cached while maintaining the business requirements
- How money is reserved when triggers are set
- How money is reserved when a buy/sell command is made
- Stability for the whole system (redundancy)

Money will be stored in the system as to integers, dollars and cents, so that the system will not experience floating point errors.

Cached quote still has a 60 second timer before the expire so if a cached quote expires before a command is committed a new quote will be retrieved.

To avoid the same money from being used for different commands, money will be set aside until the command is committed or cancelled, or when a trigger runs.

Many parts of the system will run multiple instances using Docker to allow for greater throughput as well as provide redundancy to the entire system.