**Doc tree**

1. Product backlog
2. Requirement document (features, use cases, performance, etc) for each product

* Standing from the user point of view

1. Algorithm document including needed data

* Intelligence to realize the user requirement
* Data needed should be described here

1. Design document (subsystem, interfaces, data flow, technology, diagnostic, etc)

* How to implement the algorithm to achieve flexibility/cost/time/robust/etc
* Balance between complexity/flexibility

1. Test document (unit test, progression, regression)
2. Development document (implementation, process tracking, etc)

* How to organize the development cycle (scrum, water fall)
* Tools such as PERT/excel/etc are useful

**Product -> Requirement -> Algorithm**

Product 1: Command line interactive trading system

* Allow user to view/create/cancel orders using command line
* Manage activity history

Product 2: Offline stock screener (with three sub-products)

* Screening using historical quotes

1. Break over resist
2. Bounce from support
3. Trend

* Screening using historical financials

1. Value
2. Financial strength
3. Grow
4. Sentiment

* Screening using events/news/economic indicators

1. Predict trend based on financial indicators/event

Product 3: Automated online stock monitor

* Submit/cancel order based on real time quote info

1. Only sell a stock only if the price falls below stop price longer than a specified time

Product 4: Automated online stock screener

* Screening stock using real time quotes

Product 5: Trading simulator, allows user to test their strategies