Running the project

The different components of the project and what they can do as of now have been explained in the Documentation.pdf. This document assumes that points mentioned in that document are clear before proceeding with this one. There are many scenarios one may want to test, and how to test may not have been clear from the documentation. This document is to clear that. The following are the scenarios that have been tested, and the method to do the same has been mentioned.

The Stock Market Server. Command: `java -cp StockExchangeSimOpt.jar stockexchangesim.StockMarketServer <port>`. Here port is the command line argument. If left empty, the market is hosted at a default port of 8080.

The BasicSobiTrader. There is a class for implementing a BasicSobiTrader. It can be run with the command: `java -cp StockExchangeSimOpt.jar algotraders.basicsobitrader.BasicSobiTrader <param> <volToTrade> <margin>`. The purpose of the parameters in clarified in the code. The default values are 10.0, 100, 1.0.

ProfitTrader. This was an extension to BasicSobiTrader to give meaning to portfolio management. It however has no algorithm for generating trades, hence the command line arguments to it specified in the code are meaningless till the algorithm is implemented. For now it trades in the market by the user typing in commands from the command line. Command:`java -cp StockExchangeSimOpt.jar algotraders.profitbasedtrader.ProfitTrader`.

HistoricTrader. This program is to simulate history. To sync historic timestamps with current timestamps, uncomment the while loop for syncing in the code and rebuild the project. Command: `java -cp StockExchangeSimOpt.jar algotraders.HistoricTrader`

MarketMaker. Used to create the market maker. Command: `java -cp StockExchangeSimOpt.jar nasdaq.MarkerMaker <spread> <maxVolTradeable> <windowLength> <stock>`. Default values are 0.1, 1000, 1000, 10101.

Broker. This framework is still incomplete hence its main has not been defined.