**Algo – trading client app HLD**

Background

Algo – trading app is an app that provides the user the option to purchase and sell stocks, to get information about active bids, and to get offers about which stock is recommended to buy.

Presentation layer:

The first layer is a gui-based layer that liable to get the user request, and transfer the data to the logic layer which applying the clients request.

The options that available for the user are:

- buying stock

- selling stock

- cancel an open transaction

- get information about the: user status, all user open requests , transaction status, stock status at the market.

-operating a semi auto pilot – that get a buy/sell request for max/min price and apply it when possible.

Operating an auto-pilot – that buying and selling stocks autonomously according to a private algorithm.

-showing the user all of the buying ,selling , canceling history by request.

- export a PDF file with user status

- show all the buy/sell request by dates

- show a graphical display of all the stocks

Logistic layer:

The logistic layer is a mediation layer that transmit the user requests to the market client.

It include all the requests for buying and selling, and the pilots requests.

In addition the Logic layer logging all of the actions that preformed to file (the log) – for inspection and saving history.

Market client:

This market client is liable to connect with the data base, send/get the requests. Using an encrypting.