**Stock trade and analyst system**

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**Project summary**

The project offers stock trade and analyst tools for the different investors, including individuals and financial companies. It offers the functions including paper trading, daily charts, watch list, portfolio, stock news etc.

The project is the desktop platform version based on Windows OS 7/8/10, there is another web version available in the near future.

**Key points:**

* Daily stock charts
* Paper trading
* Get data from API
* Investment performance chart

**Technical skills:**

* Windows 7/8/10, Visual studio 2013
* .Net framework 4.5, C#, WPF
* SQL server 2014, asp.net

**System frame:**

* Main window: the main window for trading
* Stock chart: subform of main, the stock chart data, such as price, trading amount, time line etc.
* Trading form: subform of main, the trading form, such as living open, close, bid price, and other transaction detail.
* Portfolio form: subform of main, the detail of client account, such as balance, stock owned, transaction history etc.
* Stock detail form: subform of main, the stock form, such as profile, common share, current price etc.

**GUI:**

It will open the main windows, there is main menu and shortcut on the top, it will restore the layout of previous information. It provides tools to trade and analyse stocks.

Tools:

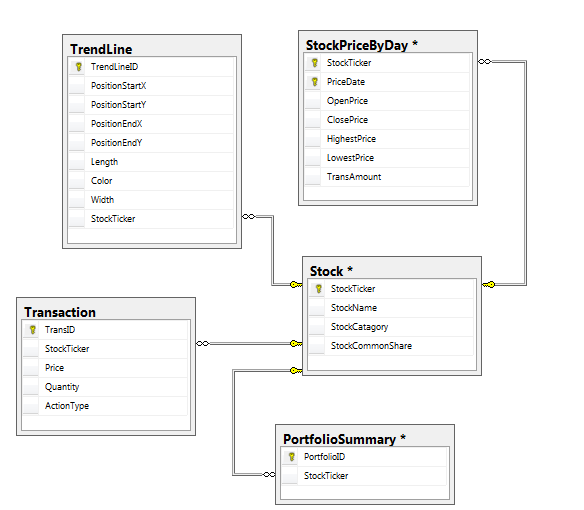
* Chart window: k line, trend line, price line, channel, volume etc.
* Trade window: trade stock with ticker, and set market/limit/stop option. 
* Portfolio: user stock information
* Stock detail: the stock profile and current price/volume
* Watch List: the user interested stock list

**StockTrade Database:**

Tables

* Stock: ticker, name, category, share
* Portfolio: stock list
* Transaction: Id, ticker, quantity, price, buy/sell
* StockPriceByDay: ticker, date, open/close/high/low price, transaction amount
* TrendLine: Id, position x/y, length, color, etc.

Table’s relationship:



**Future function:**

* Web version with asp.net
* Risk analysis tool
* Position control tool
* User account management
* Live data
* Report
* Print