- IG Labs Trading Application Documentation -

GraphViewModel.cs - Methods

* SearchEpic()
  + search for epic from IGLabs using the search query provided on UI
  + populate dropdownbox with the results.
* SelectEpic()
  + select epic from the dropdownbox
  + use this epic to initialize the chart and positions.
* GetHistoricChart(string selectedEpic)
  + Uses selectedEpic to find the historic chart data from IGLabs
* OpenBuyPosition()
  + Method wrapper for OpenPosition
  + Open a BUY position and updates position data UI
  + Method called by UI to open a BUY position
* OpenSellPosition()
  + Method wrapper for OpenPosition
  + Open a SELL position and updates position data UI
  + Method called by UI to open a SELL position
* OpenBuyPosition(decimal limit, decimal stop) \*Overwrite\*
  + - decimal limit (limit distance (limit of earn))
  + - decimal stop (stop distance, must be above 2)
  + Method wrapper for OpenPosition
  + Open a BUY position and updates position data UI
* OpenSellPosition(decimal limit, decimal stop) \*Overwrite\*
  + - decimal limit (limit distance (limit of earn))
  + - decimal stop (stop distance, must be above 2)
  + Method wrapper for OpenPosition
  + Open a SELL position and updates position data UI
* OpenPosition(string direction, decimal limit, decimal stop)
  + - string direction (direction "SELL" or "BUY")
  + - decimal limit (limit distance (limit of earn))
  + - decimal stop (stop distance, must be above 2)
  + open a position with the instrument epic
  + size is given by the UI
* ClosePosition(Collection<IgPublicApiData.OrderModel> ClosingOrders)
  + - Collection<IgPublicApiData.OrderModel> ClosingOrders (collection of all positions to close.)
  + close all positions provided in the collection
* ClosePositivePositions()
  + close all current POSITIVE positions in the positions data list
* CloseAllPositions()
  + close all current positions in the positions data list
* GetPositions(string epic)
  + - string epic (epic of instrument to get positions from)
  + get market details and set currency traded first.
  + then get open position with the epic being the provided
  + use clear position before this method.
* SubscribeToCharts(string[] chartEpics)
  + - string[] chartEpics (chart epics should contain only 1 epic!!)
  + subscribe to IGLabs lightstreamer subscription
* UnsubscribeFromCharts()
  + unsub from IGLabs lightstreamer subscription
* OnChartTickDataUpdate()
  + update position points from subscription api from IGlabs
* OnChartCandleData5MinuteUpdate()
  + update 5 minute chart data from the subscription api from IGlabs
  + Determine entry points here
* addToSeries(double open, double high, double low, double close, string label, bool first)
  + - double open
  + - double high
  + - double low
  + - double close
  + - string label (chart label)
  + - boolean first (Whether it is the first in the chart.)
  + add to the chart series (display chart)
  + bool first is for when it is the first entry, only used in get historic.
  + only remove historic when more than graphEntries
* updateSeries(double open, double high, double low, double close, string label)
  + - double open
  + - double high
  + - double low
  + - double close
  + - string label (chart label)
  + to update the first entry of the series (display chart)
  + get the last of the ohlcpoint and change it.
* SetOneMinuteChart()
  + change chart to populate 1 minute data with historic data
* SetFiveMinuteChart()
  + change chart to populate 5 minute data with historic data
* currentPointGreen(OhlcPoint point)
  + - OhlcPoint point (OhlcPoint in chart)
  + Returns true or false value (Boolean)
  + calculate whether OhlcPoint is green or red (upward or downward)

Determining entry points:

* Entry 1:
  + last 20 minutes all upwards / downwards trend, open a position which follows that trend
* Entry 2:
  + 10 minutes downward, 5 minutes upward followed by a steep increase of 0.0003 points => Open a sell position
  + 10 minutes upward, 5 minutes downward followed by a steep decrease of 0.0003 points => Open a buy position
* Entry 3:
  + 15minutes of downward and 15minutes of upward trend => Open a sell position
* Entry 4:
  + Steep increase of 0.0007 points => Open a buy position
  + Steep decrease of 0.0007 points => Open a sell position