

This EA should be developed for the MT5 platform.

This job is the development an EA an 2 indicators which will work inside the EA.

The EA will be applied on a 1min chart, but one of the indicator (the trend) will be based on a daily chart and visible

**1st indicator (source code provided below) : ZigZagTrendDetector trend (based on a daily timeframe)**

We use the Zigzag trend detector (code on the following link :

[https://github.com/baggiony/BGRobotic/blob/master/Indicators/indicators\\_2/ZigZagTrendDetector.mq5](https://github.com/baggiony/BGRobotic/blob/master/Indicators/indicators_2/ZigZagTrendDetector.mq5)) with default inputs ExtDept : 3, ExtDeviation : 2, ExtBackstep : 2 (could be changed in the EA inputs)

In this indicator, if a bar is at the top there is an uptrend, if it's at the bottom it's a downtrend.

In this strategy we use the previous day daily trend : If yesterday had an uptrend, we buy only today, if it was a downtrend we only sell today. If there is no trend according to the indicator, we don't enter position.

A trend can be invalidated if the price goes below the Zigzag indicator last low (if we were in an uptrend), or over the Zigzag last high (if we were in a downtrend). If the trend is invalidated we won't enter the market until a new daily trend appears.

There should be a text line at the top left corner of the chart showing us the actual trend status (UPTREND/NEUTRAL/DOWNTREND).

**2nd indicator (to be developed) : Premarket high/low (on the timeframe of the chart)**

We determine the high/low of the premarket period (there should be 2 inputs to determine this period hours : premarket\_start and premarket\_end). In an uptrend we will trade using the low, in a downtrend the high. We determine at the start of the day if we are in an uptrend or downtrend with the above indicator, then we draw on the chart



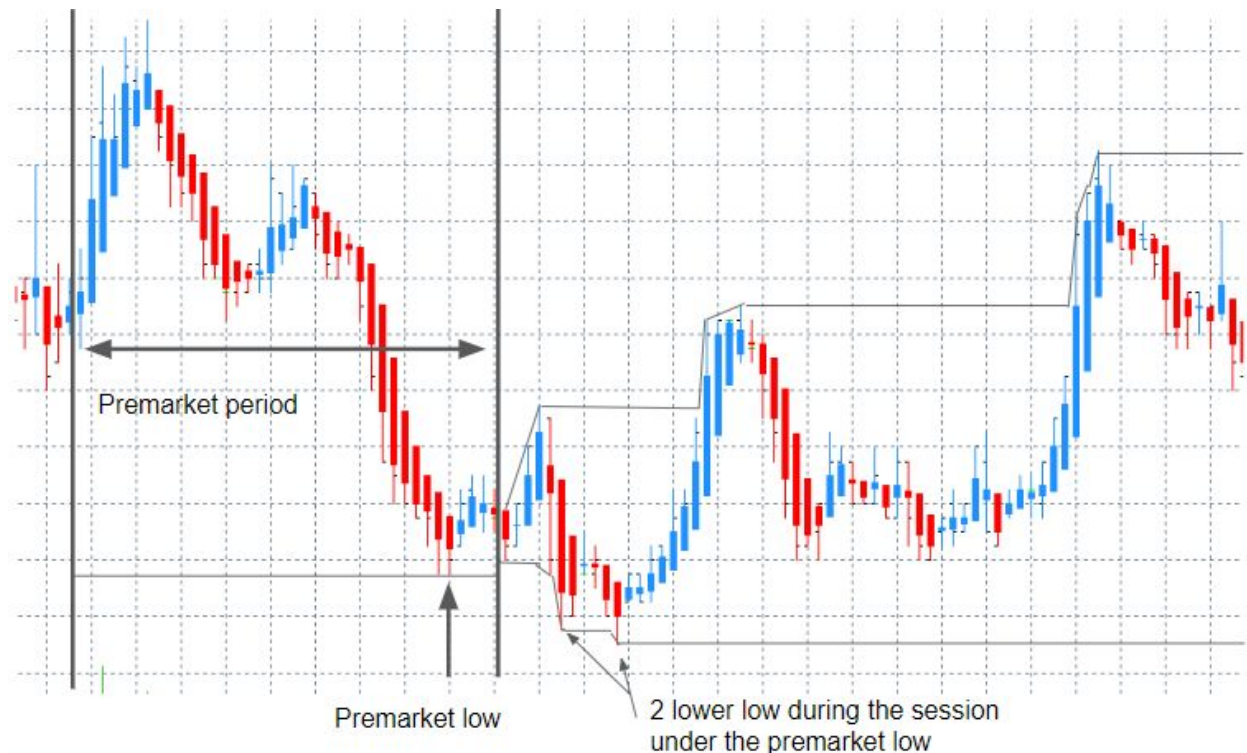
Example above in a uptrend market : we draw a line showing the low of the premarket period and only of this period.

### **3rd indicator (to be developed) : Daily high/low (on the timeframe of the chart)**

We determine the high/low of the daily session (there should be 2 inputs to determine this period hours which happens to be after the premarket : session\_start and session\_end). We will only trade during this time period.

We start plotting a channel starting from the session\_start with the high/low of the current session to the session\_end (it would work like a donchian channel but with a time setting instead of a number of bars).

Below is an example of what the channel should look like :



#### **4th indicator (provided in MT5) : Heikin Ashi**

This indicator is used for the entries and doesn't need additional modification.

#### **Entry :**

Example for an uptrend market (buy only), for a downtrend market this is exactly the opposite (we enter on the high with a sell order).

We use a heikin ashi indicator to determine the entries :

#### **1st entry of the session :**

When the price crosses the premarket low and the price is showing a reversal (when the close price is over the heikin ashi body) we buy at market once this candle is closed.

#### **Next entries :**

If we already entered the market at least once in the session, the entry point become the session lowest point. We wait for the same reversal pattern : a new low has been determined by a previous candle and the close price is over the heikin ashi candle.

We repeat each time price reach a new low or is equal to a previous low.



### Trade management :

Lot size ,SL and TP will be determined in the inputs.

Martingale :

There should be an option to enable a martingale (if disabled we disable trading until the position is closed), and inputs for the max number of levels and the coefficient/multiplier of the martingale.

Take profit method : cumulated (if TP is set to 10 pips, we close all the positions at the same time once the sum of all positions profit is equal to 10 pips) or independent (each position will close once their TP/SL is hit).

Max daily loss :

Max daily loss : trading is disabled once this amount of loss is reached.