

ICS 32 FINAL PROJECT

Version 2.0.0

Eve price checking tool

Chenjun Xu

Ruilin Xie

HongYuan Ran

Notes: we design to use discord' Webhook to replace FTTT's alert function because the webhook method is convenient and easy to use.

Requirements:

Windows system is preferred, there will be bad layout problem running on Mac, untested on Linux system.

Install package and module:

1. dhooks: 'pip install dhooks' <https://pypi.org/project/dhooks/>
2. pathlib
3. urllib
4. requests
5. os
6. json
7. pprint
8. tkinter

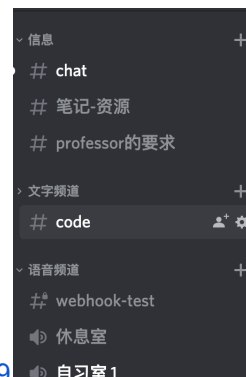
API:

1. <https://api.eve marketer.com/ec/> eve marketer api is an API that extracts data from the eve market and provide prices of items in the eve market

Webhook Instruction:

<https://support.discord.com/hc/en-us/articles/228383668-Intro-to-Webhooks>

If you don't want to read this, we have provided discord server with webhook for you



discord invite: <https://discord.gg/YJewwW3b79>

Webhook is automatically insert in our program, if you do not change any
Check our webhook-test channel to get alert from

Intruccion:

Single mode:

The screenshot shows the 'EVE Market Data' application window. At the top, there's a title bar with the application name and standard window controls. Below the title bar, the 'Options' section contains two input fields: 'Place/Region' with the value 'jita' and 'Item Name' with the value 'condor'. Each input field has a 'Set' button next to it. To the right of these fields is a 'Search' button. Below the input fields, there's a 'Monitor Setting' button and a checkbox labeled 'Monitor Mode' which is currently unchecked. The main display area shows market data for the selected item. It is divided into two sections: 'SELL:' and 'BUY:'. The 'SELL:' section displays: Minimum: 454900.0, Average: 477266.67, Volume: 742, Median: 455250.0, Standard Deviation: 19811.08, and Variance: 392478787.88. The 'BUY:' section displays: Maximum: 241700.0, Average: 209853.85, Volume: 424, Median: 201200.0, Standard Deviation: 36338.42, and Variance: 1320481025.64. Below the data, it says 'Data Loaded.' At the bottom left, there's a 'Monitor Status: Ready.' and 'Status: Ready.' section. At the bottom right, there's a 'MODE:' section with a button labeled 'Single Item'.

Category	Minimum	Average	Volume	Median	Standard Deviation	Variance
SELL:	454900.0	477266.67	742	455250.0	19811.08	392478787.88
BUY:	241700.0	209853.85	424	201200.0	36338.42	1320481025.64

Purpose: Provide single item's price searching in EVE market

Use:

1. input item name and Place/Region and then click EACH set button to save your input item name/place/region. Please visit <https://evemarketer.com/> for item prices information references(and more item names/regions/systems/ for testing)
2. Then click search

Batch Mode:

Purpose: The batch mode allows the user to check the value of a batch of items in a specific region/system market, the batch example will be stored in a .txt file.

Use:

1. Click the single Item button to switch to the batch mode page.
2. Set the Place/Region.
3. Copy item informations from game inventory, or copy from batch examples txt file, and put it in the Items entry.(make sure you copy everything from batch examples)
4. Click the search button, it may take a while to load, so please be patient.
5. You may copy your batch and paste in <http://evepraisal.com/> to check accuracy(evepraisal only supports 7 systems, but our program supports every region/system)

The screenshot shows the 'EVE Market Data' application window. The 'Place/Region' is set to 'jita'. The 'Items' list contains the following data:

Item Name	Quantity	Unit	Price (ISK)
Helium Isotopes	2,325,107	Ice Product	6
9,753.21 m3	1,964,924,674.63	ISK	
Liquid Ozone	3,860,020	Ice Product	1
,544,008 m3	642,577,529.40	ISK	
Nitrogen Isotopes	2,076,019	Ice Product	
62,280.57 m3	1,797,894,734.57	ISK	
Oxygen Fuel Block	1,206	Fuel Block	6
,030 m3	22,145,090.58	ISK	
Oxygen Isotopes	1,161,518	Ice Product	3
4,845.54 m3	948,274,910.38	ISK	
Strontium Clathrates	450	Ice Product	1
,350 m3	1,621,390.50	ISK	

The 'Data' section shows the following summary:

- Total Volume: 1718267.32
- Total Sell: 5319471855.2
- Total Buy: 5008422677.8

The status is 'Ready' and the mode is 'Batch Items'. A 'Data Loaded.' message is displayed at the bottom.

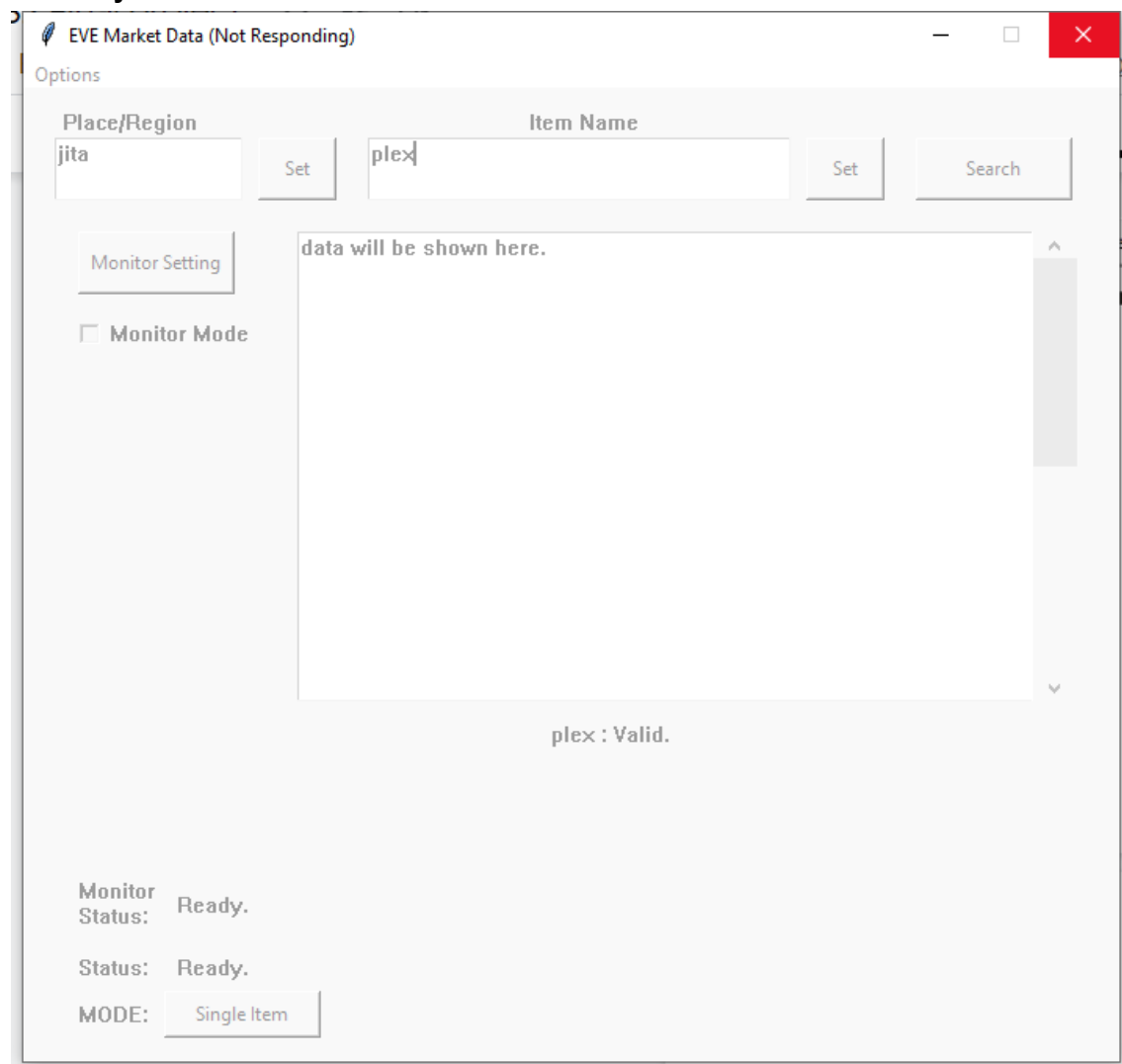
Monitor: Extra credit

Purpose: send the alert message(fluctuation of price) to discord

Drawback: because we don't master knowledge of "thread", so we cannot let program run separately. The program will freeze to keep monitoring the data. If you want to close monitor, just close app.

Use:

1. Follow the instructions of single to save item and region first
2. you have to click 'Monitor setting' to input message. A new window will popup
3. Input message in new window: input price that you want to set, '<=' below this price, '>=' higher than this price.
4. When you finish your data input, go back and just turn Monitor mode on.
5. The whole program will freeze but it is still working(while loop sending alert to our discord)
6. if the market price exceeds your expect price, a message will send to discord by webhook



Ummm, no worries, no responding means it is working properly.

Versions:

2.0.0 @ 12/17/2020