**YuGiOh Inventory**

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# Version History

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| --- | --- | --- |
| Version | Date | Changes |
|  |  |  |

# Overview

Program manages an inventory for YuGiOh cards taking user input to update a database, and pulling card information from multiple websites.

## Resources

* **API Website YuGiOh database**: <https://db.ygoprodeck.com/api/v7/cardinfo.php>
  + **Documentation**: <https://ygoprodeck.com/api-guide/>
* **API Website YuGiOh Pricing:** <https://yugiohprices.com/api/price_for_print_tag/>
  + **Documentation:** <https://yugiohprices.docs.apiary.io/#>

# Documentation

There are two primary files with four separate database/input files.

## File Structure

All files are in the same directory.

## File Overview

* Update\_inventory.py:
  + Handles most (~99%) of the back-end processing
* Gui.py:
  + Handles the user interface with some back-end-ish processing
* API\_cache.json:
  + The downloaded database from the YGoProDeck website
* Inventory.json:
  + The user’s inventory
* Add\_file.txt:
  + The cards, given user inputted setcodes, to add to the inventory
* Remove\_file.txt:
  + The cards, given user inputted setcodes, to remove from the inventory

## Detailed File Overview

### Update\_inventory.py

Handles the back-end processing, including adding/removing cards, updating the API cache, and getting pricing.

**Function List**

* *import\_cached\_API(fname)*
* *import\_all\_API(url)*
* *write\_to\_cache(fname, jsonList)*
* *import\_update\_file(file\_name)*
* *import\_json\_file(file\_name)*
* *add\_cards(addList, inventoryBasic, apiCache)*
* *write\_to\_json(data)*
* *remove\_from\_inventory(removeList, inventory)*
* *get\_pricing\_rarity(setcode, url)*

**Imports**

import json

import requests

**Global Variables**

URL\_API\_setcode = "https://db.ygoprodeck.com/api/v7/cardsetsinfo.php?setcode="

URL\_API\_name = "https://db.ygoprodeck.com/api/v7/cardinfo.php?name="

URL\_API\_info = "https://db.ygoprodeck.com/api/v7/cardinfo.php"

URL\_API\_pricing = "https://yugiohprices.com/api/price\_for\_print\_tag/"

FILE\_API\_cache = "./API\_cache.json"

FILE\_inventoryBasic = "./inventory.json"

FILE\_addList = "./add\_file.txt"

FILE\_removeList = "./remove\_file.txt"

### gui.py

Handles the front-end interaction with the user and displays.

**Function List**

* update\_inventory\_file(newFile)
* update\_inventory\_file\_window()
* get\_inventory\_stats(inventory)
* onFrameConfigure(canvas)
* populate(frame, inventory, overviewTitles, overviewStats, keys)
* show\_inventory(title, showThis)
* simple\_inventory()
* add\_to\_inventory(fileName)
* add\_to\_inventory\_window()
* update\_API(fileName)
* update\_API\_window()
* search\_for\_card(name)
* search\_window()
* remove\_from\_inventory\_gui(fileName)
* remove\_window()

**Imports**

* from tkinter import \*
* from pathlib import Path
* from update\_inventory import import\_json\_file
* from update\_inventory import import\_cached\_API
* from update\_inventory import import\_update\_file
* from update\_inventory import import\_all\_API
* from update\_inventory import write\_to\_json
* from update\_inventory import write\_to\_cache
* from update\_inventory import add\_cards
* from update\_inventory import remove\_from\_inventory
* from tkinter.messagebox import showinfo, showerror

**Global Variables**

* FILE\_inventory = Path("inventory.json")
* FILE\_API\_cache = Path("API\_cache.json")
* API\_URL\_info = "https://db.ygoprodeck.com/api/v7/cardinfo.php"
* URL\_API\_pricing = "https://yugiohprices.com/api/price\_for\_print\_tag/"

## Function Overview – update\_inventory.py

## Function Overview – gui.py

## Function Detailed Overview