# **Echo Scrape**

echo\_scrape.py is a web scraping script designed to automate the process of logging into https://login.echo-usa.com, extracting product details, and saving the information into a CSV file. Additionally, the script has the option to upload the output CSV file to an FTP server once scraping is complete.

# **Features**

- Automates the login process using provided credentials.
- Scrapes product information such as brand, item code, description, retail price, quantity on hand, and more.
- Allows FTP upload of the output file, with options to overwrite existing files or append a timestamp to the filename.
- Supports a headless browser mode for silent operation without opening a window.
- Handles product inventory and price data extraction.

# Requirements

Minimum System Requirements

- Operating System: Windows 7 or later (Windows 10/11 recommended)
- **Python Version**: 3.8.10 (for Windows 7) or later (for Windows 10/11)
- chromedriver:
  - Windows 7: Use chromedriver version 109.
  - Windows 10/11: Use the latest version of chromedriver.

## Dependencies

You can install the necessary dependencies via the provided requirements.txt. Run the following command to install them:

```
pip install -r requirements.txt
```

The requirements.txt includes the following libraries:

- requests==2.26.0: For making HTTP requests.
- beautifulsoup4==4.10.0: For parsing HTML content.
- selenium==4.8.3: For automating web browser interactions.
- lxml==4.6.3: For faster HTML/XML parsing (used by BeautifulSoup).
- pyinstaller==4.10: For creating executable files from the Python script.

#### Chromedriver

You must have <a href="chromedriver.exe">chromedriver.exe</a> installed for Selenium to work. Depending on your version of Windows:

```
Windows 7: Use chromedriver version 109.
Windows 10/11: Use the latest version of chromedriver.
```

You can download the appropriate version of chromedriver from the official website: ChromeDriver.

Once downloaded, place the chromedriver.exe in the same directory as the script or specify its path in the configuration file (config.txt).

# Configuration (config.txt)

The configuration file (config.txt) contains the necessary parameters for the script. Here is a breakdown of the configuration options:

```
{
    "login_url": "https://login.echo-usa.com",
    "username": "your username",
    "password": "your_password",
    "headless_mode": false,
    "max_rows": "all",
    "input_file": "input.csv",
    "output_file": "output.csv",
    "ftp_host": "None",
    "ftp_port": 21,
    "ftp_username": "ftp_user",
    "ftp_password": "ftp_password",
    "ftp_directory": "/path/to/directory",
    "overwrite_existing": true,
    "rsv qty": 5
}
```

#### **Parameters:**

- login\_url: The URL for logging into the website.
- username: Your username for logging into the website.
- password: Your password for logging into the website.
- headless mode: Boolean (true or false), if true, the browser will operate in headless mode (no GUI).
- max\_rows: Set to "all" for scraping all rows or an integer to limit the number of rows to scrape.
- input file: The filename of the input CSV file containing the products to be scraped.
- output\_file: The filename where the output CSV file will be saved (default is output.csv).
- ftp host: The FTP server hostname or IP address. If set to "None", the file is saved locally.
- ftp port: The FTP server port (default is 21).
- ftp username: Your FTP username.
- ftp password: Your FTP password.
- ftp directory: The directory on the FTP server where the file will be uploaded.
- overwrite\_existing: Boolean (true or false), determines whether to overwrite an existing file on the FTP server.

• rsv\_qty: The default reserved quantity, set to 5 by default.

## Running the Script

#### Windows 7/10/11

To run the script, execute the following command in the terminal:

```
python echo_scrape.py
```

#### Ensure that:

- The configuration file (config.txt) is set up with the correct parameters.
- The chromedriver.exe version is correct for your Windows version (see the requirements above).
- The input CSV file exists, and the FTP server information is correctly configured if you intend to upload the file to an FTP server.

### **FTP Upload:**

After scraping is complete, the script will upload the output CSV file to the specified FTP server. If the overwrite\_existing flag is set to false, a timestamp will be appended to the file name before uploading.

# **Output Fields**

The output CSV file will contain the following fields, each representing a specific piece of product information:

- MFG
  - Description: The manufacturer of the product. This field provides the name of the company that produces the item.
  - Example: Echo, Shindaiwa
- Type
  - Not currently used blank
- Subtype
  - Not currently used blank
- Item Code
- **Description**: A unique identifier for the product. This code is often used to track inventory and can be a part number, SKU, or internal identifier.
- Example: ECH 12345, BIL 98765
- Item Description Description: A brief description of the product, often including features, size, or other distinguishing characteristics.
  - Example: 20" BAR & CHAIN COMBO, PISTON KIT, 1-RING

#### Retail

• **Description**: The retail price of the product. This is the listed MSRP price before any discounts or promotions are applied.

• Example: 199.99, 349.95

### Qty on Hand

- Not currently used ∅
- Qty on Order Not currently used 0
- RSV Qty
  - **Description**: The reserved quantity, which represents the number of units set aside for specific orders or needs. This is typically used in inventory management to allocate stock.
  - **Example**: 0, 5

#### Cost

- **Description**: The cost price of the product, typically the price paid to acquire or produce the item. This can be useful for inventory and financial tracking.
- Example: 120.00, 220.50

# Troubleshooting

#### **Common Issues:**

- chromedriver version mismatch: Ensure you are using the correct version of **chromedriver** based on your Windows version.
- FTP connection errors: Check that the FTP credentials and server path in config.txt are correct. Ensure that the FTP server is accessible.

# License

This script is provided as-is. Use it at your own risk. The author is not responsible for any damage or issues caused by this script.

# **Contact Information**

For any questions, issues, or feedback regarding this script, please reach out:

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Please ensure to provide detailed information about the issue you're experiencing, including any relevant error messages and the configuration details used when running the script.