

Documentation: Amazon Best Sellers Scraper Using Selenium

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Features

- **Automated Browsing:** Uses Selenium to navigate through Amazon's best-seller pages.
- **Data Extraction:** Collects:
 - Product Name
 - Price
 - Discount Percentage
 - Rating
 - Shipping Information
 - Seller Details
 - Product Description
 - Number of Purchases in the Past Month
 - Available Product Images
- **Delays:** Introduces randomized delays to mimic human behavior and reduce the risk of bot detection.
- **Data Storage:** Saves the scraped data into a structured CSV file.

Setup Instructions

1. Prerequisites

- **Python:** Ensure Python 3.7+ is installed on your system.
- **Google Chrome and ChromeDriver:**
 - Download and install Google Chrome.
 - Download the appropriate version of ChromeDriver to match your browser version.
- **Brave Browser (Optional):**
 - If using Brave, ensure it is installed and provide its binary path in the script.

2. Install Required Libraries

Install Selenium using pip

3. Set Up the Environment

- Place the `chromedriver` binary in an accessible directory.
- Update the script with the correct `driverPath` and Brave binary path, if applicable.

4. Enable Headless Browsing

- To run without opening a visible browser window, the script uses `--headless` mode. Remove the argument in the `options` configuration if you want to see the browser interactively.

Usage Instructions

Change the path in the code to your chromedriver and if you are not using Brave comment line 21

```
options.binary_location = "/Applications/BraveBrowser.app/Contents/MacOS/Brave Browser"
```

1. Run the Script

Run the script using the python3 command in terminal.

```
python3 main.py
```

2. Input Data

- The script is pre-configured to scrape 10 categories from Amazon's Best Sellers section. Modify the `categories` list in the script to include other categories or change URLs as needed.

3. Scraping Workflow

- The script will:
 1. Open each category URL in the browser.
 2. Scroll through the page to load all elements.
 3. Scrape the details of products with discounts greater than 50%.
 4. Navigate through up to 30 pages of each category (can be changed if needed in the loop).

4. Output

- Scraped data is saved in a CSV file named `amazon_best_sellers.csv` in the current directory. The file contains all the extracted fields for each product.
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