**Amazon Web Scraper: Functionality, Setup, and Usage**

**Functionality Overview**

The Amazon Web Scraper is a Python script designed to automate the extraction of product information from Amazon's Best Sellers section. The script performs the following tasks:

1. **Authentication**: Logs into Amazon using provided credentials.
2. **Data Collection**:
   * Scrapes product details from 10 predefined categories.
   * Filters products with discounts greater than 50%.
   * Limits data extraction to the top 1500 best-selling products in each category.
   * Collects product details, including:
     + Product Name
     + Product Price
     + Sale Discount
     + Best Seller Rating
     + Ship From
     + Sold By
     + Rating
     + Product Description
     + Number Bought in the Past Month (if available)
     + Category Name
     + All Available Images
3. **Data Storage**: Saves the scraped data in JSON format for further analysis.

**Setup Instructions**

**Prerequisites**

* **Python 3.7+** installed.
* **Google Chrome** browser installed.
* **ChromeDriver** compatible with your Chrome version.
* **Selenium** Python library installed.
* Amazon account with valid login credentials.

**Installation**

1. Clone or download the project repository.
2. Install required Python packages:

pip install selenium

1. Download the appropriate version of ChromeDriver and place it in your system's PATH or project directory.

**Configuration**

1. Open the script file and set the following variables:
   * USERNAME: Your Amazon email address.
   * PASSWORD: Your Amazon password.
   * OUTPUT\_FILE: The name of the output JSON file.
   * CATEGORIES: List of Amazon Best Seller category URLs.

**Usage Guidelines**

**Running the Script**

1. Launch the script using Python:

python amazon\_scraper.py

1. The script will:
   * Log in to Amazon.
   * Scrape product details from the specified categories.
   * Save the data to the specified output JSON file.