Web Scraper Documentation

Introduction

This documentation explains how to use a web scraper program designed to extract product information from Amazon and Flipkart websites. The program allows users to choose between scraping Amazon or Flipkart and optionally comparing prices on both platforms.

Prerequisites

Before using the web scraper, ensure that you have the following prerequisites:

- Python installed on your computer.

- Required Python packages: requests, bs4 (Beautiful Soup), os, and sys.

Usage

Running the Web Scraper

1. Open your terminal or command prompt.

2. Clone or download the project repository from github.com/7arj/amazon_flipkart_scraper

3. Run the main program:

    python main.py

4. The program will display a menu with the following options:

    - Enter 1 to run Amazon scraping.

    - Enter 2 to run Flipkart scraping.

    - Enter 3 to exit the program

Amazon Scraping

- If you choose option 1, the program will prompt you to enter the Amazon   product URL. Provide the URL as requested.

- The scraper will then fetch and display the product name and price from Amazon's website.

- You will have the option to compare the price on Flipkart by entering "Yes" or "No."

In the Amazon scraping function, the steps are as follows:

- Send an HTTP GET request to the provided Amazon product URL using the requests library with custom User-Agent headers to mimic a web browser.

- Check the response status code. The while loop continues until a status code of 200 (OK) is received, which helps handle potential server errors.

- Use BeautifulSoup (BeautifulSoup(response.content, 'html.parser')) to parse the HTML content of the page.

- Locate the product name and price in the HTML using specific class names.

- Print the product name and price if found.

- The function handles exceptions, such as KeyboardInterrupt (user quitting the program) and other potential errors.

Flipkart Scraping

- If you choose option 2, the program will prompt you to enter the Flipkart product URL. Provide the URL as requested.

- The scraper will then fetch and display the product name and price from Flipkart's website.

- You will have the option to compare the price on Amazon by entering "Yes" or "No."

In the Flipkart scraping function:

- Send an HTTP GET request to the provided Flipkart product URL with custom User-Agent headers.

- Use BeautifulSoup to parse the HTML content of the page.

- Locate the product name and price in the HTML using specific class names.

- Print the product name and price if found.

- The function handles exceptions, such as errors during the scraping process.

Exiting the Program

To exit the program, choose option 3 from the main menu.

Important Notes

- The web scraper uses custom User-Agent headers to mimic a web browser when sending requests to the websites. This helps prevent server errors.

- The scraper may encounter errors while scraping data, and it will handle exceptions gracefully.

Troubleshooting

If you face any issues or errors while using the Web Scraper, please check the following:

- Ensure that the URL provided by you exists.

- Verify that you have given inputs in the correct form.

- Check for any exceptions or error messages displayed by the tool.

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