

Chance Onyiorah - cco2134

Search and Go

With the holidays coming up, many people turn to Amazon to find the perfect gifts for friends and families. With an endless list of options, sometimes you just want to see the important information for each product so you can narrow down an item. This usually includes the price and the rating for each product.

The point of this project is to create an Amazon web scraper. It will allow a user to input a search query and get a list of the first 50 Amazon results. This list will include each product's name, seller, price, and rating. Along with a search query, (inputted by the user at the start of the program) the user can also choose if they want to sort by name (alphabetical), price (lowest to highest), or rating (highest to lowest) to more easily sift through results. This will just look like a prompt that asks what category they would like to sort by with the three options listed above.

It would also be good to include a link to each product for easy access to view the product online. This way, if someone wants to see any more information about the product or add the item to their cart, they can directly access the product page without having to go back to the Amazon web page to navigate to the link.

Some more features I would like to implement is filtering by price and rating. Nobody wants a 1 or 2 star product or something that's way out of budget. There will be a prompt asking if the user wants to filter by price. The user can either input yes or no. If yes, they will be asked for a maximum price. The next prompt will ask if they want to filter by rating. If yes, then they will be asked to input a minimum rating.

Afterwards the user will be given a product list of 50 with the specifications that they provided. This will be done in parallel with the information for each product resulting from the web scraping being mapped to the final list. With some research, I have found that the Scalpel or HXT library can be used for web scraping.