WebCrawler

Habib University – Programming Fundamentals

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Certificate

This is to certify that this project entitled " *Web Crawler* " submitted in entire fulfillment of the Habib University Semester-1, Programming Fundamentals done by following candidate.

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Problem Statement

In today's world, due to modern technology, everything has revolutionized to internet and e-commerce to a significant extent. And thus, this has led to the development of sundry different websites for online shopping, making it rather difficult for online customers to find products at a feasible rate. A great deal of people simply just trusts the very first suggestion and many a time, end up with loss of opportunity to buy the same product at a strikingly lower price.

Solution

- In order to tackle the problem mentioned in the previous slide, we decided to make a program catering to the demands of online customers.

- User will enter the product that they want to buy in the search bar and ultimately, our Web Crawler will provide search results of the product from 2 to 3 different sources and will suggest the best choice with the lowest price available

Technologies Used

I.   Back-End

Python libraries: selectorlib and requests.
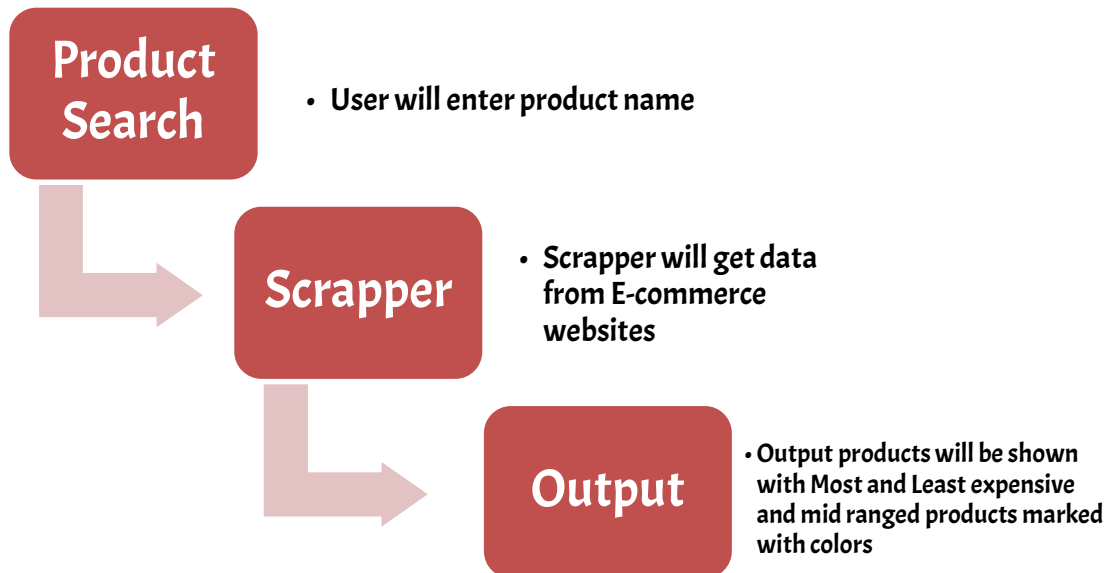Python Web Framework: Flask.

II.   Front-End

Webpages: HTML.
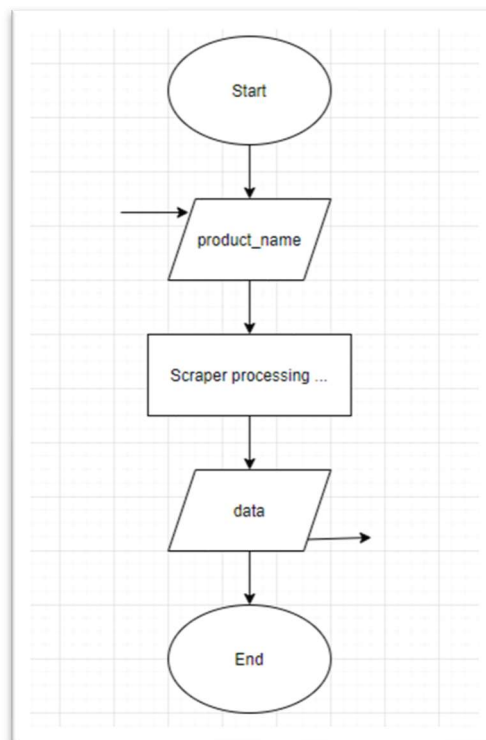Styling: Bootstrap & custom CSS.
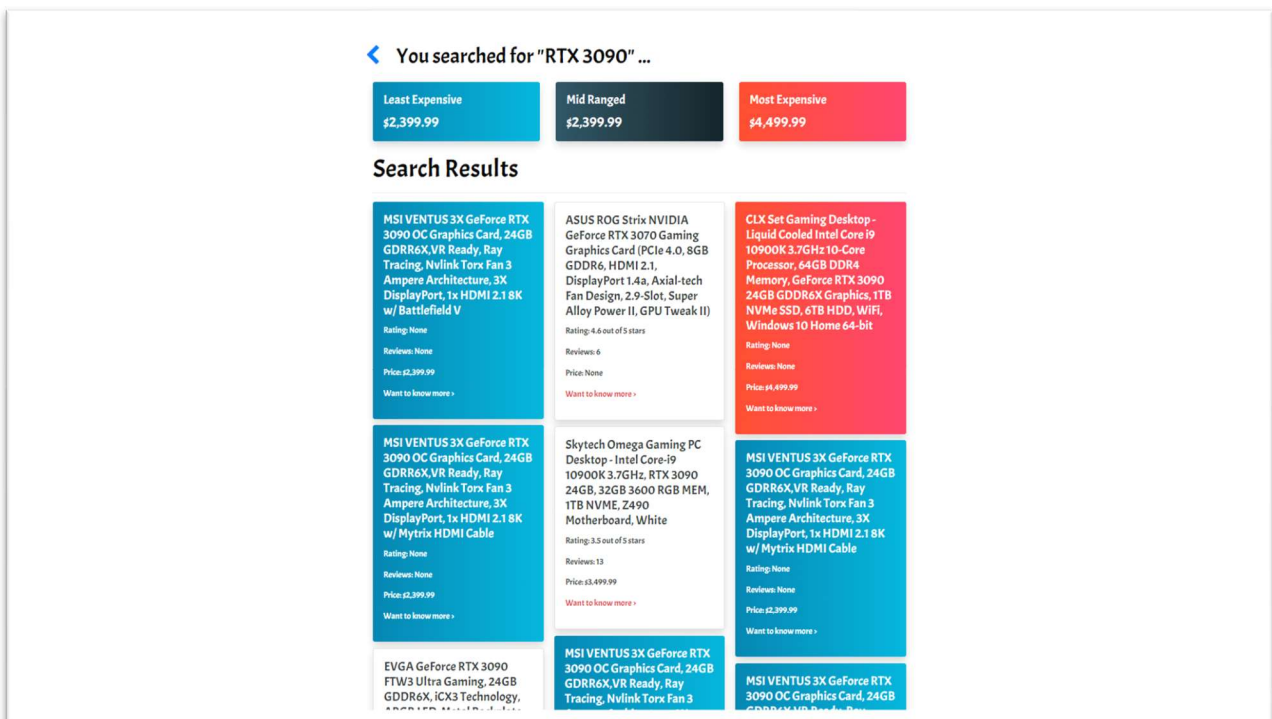
III. Hosting

Cloud Hosting Server: Heroku

Diagrams

Architecture Diagram

Product Search

- User will enter product name

Scrapper

- Scrapper will get data from E-commerce websites

Output

- Output products will be shown with Most and Least expensive and mid ranged products marked with colors

Flowchart

```
Start
  ↓
product_name
  ↓
Scraper processing ...
  ↓
data
  ↓
End
```

Interface

THANK YOU!

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