FRAGRANCE FINDER

Development Team

Lakelon Bailey - Web Application

Stephen Souther - Website Scraping/Emailing

William Duff - Website Scraping

Kien Nguyen - Website Scraping

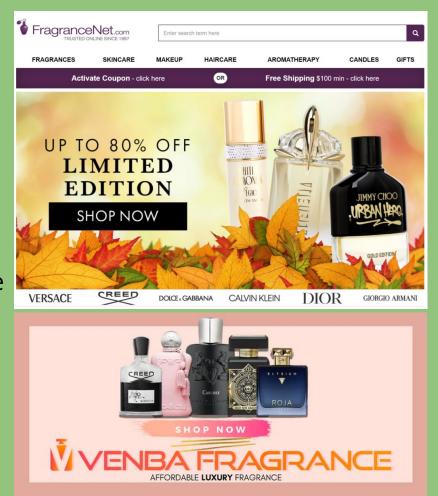
Faithful Odoi - Website Scraping

Nolan Coffey - Website Scraping

Jacob Kennedy - Frontend Designer

What are we making?

Our team recognized an issue with the process of shopping for fragrances from online discounter sites. These sites are spread out over the internet, making it hard to track down the best price. We wanted to fix this by creating an all in one page where all of the stores' data would be stored in one place, and when prices change on a favorite fragrance, an update is emailed as to what the new price is.

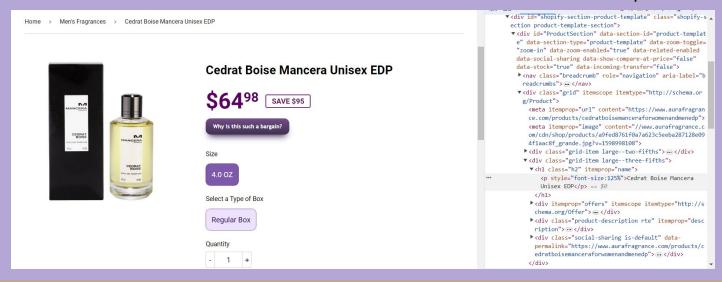


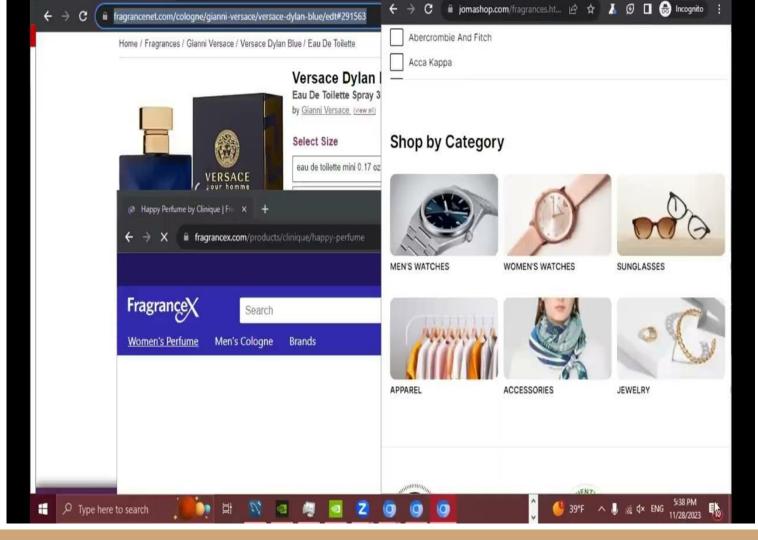
Web Scraping (Python, Beautiful Soup, Playwright)

Scraping web pages for important information

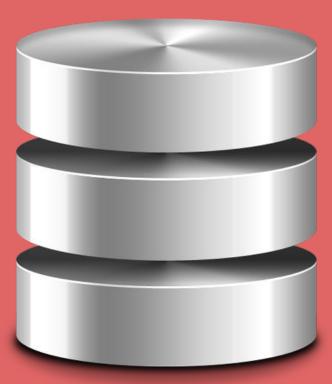
Nolan Coffey

- Playwright used to open and interact with elements on site, Beautiful Soup used for parsing HTML file.
- o Brand, title, concentration, size, price, gender, link to fragrance, and link to image
- Format/clean the data to make sure it is uniform for all of the scrapers



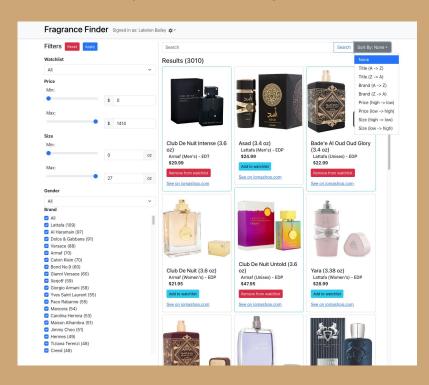


Server-side API (JavaScript, Express.js, MySQL, Sequelize)



- Handle API requests from frontend.
- Interact with database
- Create JSON Web Tokens (JWT) using secret key.
- Validate JWT and protect endpoints.

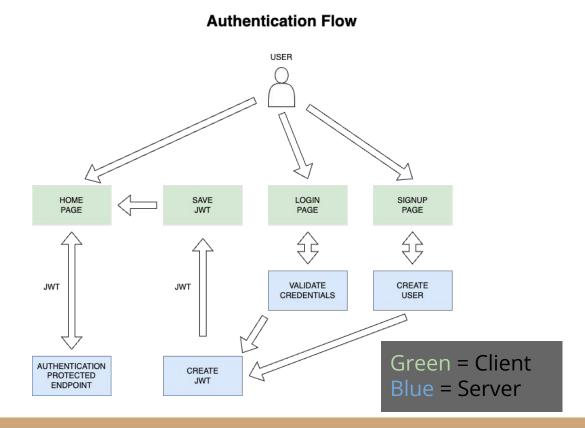
Client (JavaScript, React, Bootstrap)



- Allow sorting, filtering, and searching of fragrance listings
 - Brand and Title
 - Price
 - Size
- Progressive loading of fragrances
- Mobile friendly

Authentication with JSON Web Token (JWT)

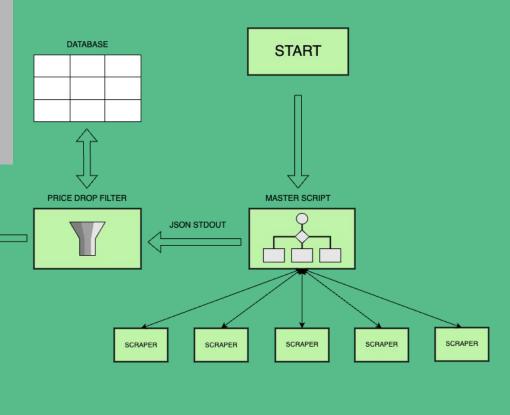




Our database updater script packages scraping, database updates, and emailing into one master process. It runs the master script, which runs all scrapers, and collects fragrance data from this script in JSON standard output. Then, it updates the database with the newly scraped fragrances and emails users if there are price drops.

EMAILER

Database Updater Script Flow



Email Alerts

Here is an example email that a user would receive. In this case, the user had these two fragrances watchlisted, causing our application to email them with price drop notifications.

Price alerts for one or more items on your watchlist



stephen@ky4nw.com <stephen@ky4nw.com> 11/26/2023 12:43 PM

To: stephen@ky4nw.com

Hello Stephen,

The price for the following items on your watchlist have dropped:

<u>Asad EDP by Lattafa</u> is now \$24.99 at www.jomashop.com
<u>Club De Nuit Intense EDT by Armaf</u> is now \$29.99 at www.jomashop.com

Thank you and have a nice day.

Demo

Questions?