Substance Searcher

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Project Overview

The goal of this project was to use the FDA API to access information about active substances, then use a graphical interface to visualize the data for the user. Most of the data analysis was very trivial, and only gave the user a broad understanding of the dataset.

Project Technologies

For creating the UI, I used a html/css library called Material Design Lite. It was easy to implement and fit well inside the current project structure. For creating the graphical interfaces, I used a JavaScript library called c3.js. I decided to use it because the library provided many user-friendly interactive graphs, which I thought were a good fit for this project.

Completed User Stories

1. As a user, I would like to have a visually appealing application
2. As a user, I would like to be able to search for substances
3. As a user, I would like to have autocomplete functionality in the search engine
4. As a user, I would like to know how many FDA reports there are
5. As a user, I would like to know the age of patients using the substance
6. As a user, I would like to know the percentage of males and females using the substance
7. As a user, I would like to know the results of patients after using the substance
8. As a user, I would like to know the yearly number of patients using the substance
9. As a user, I would like to know what happens after the patient completed using the substance
10. As a user, I would like to know the most common form of consumption
11. As a user, I would like to know what substances I searched for in the search engine

Extra Features

In the future, I would like to add more features to the project. I would like to include an ‘about’ page, which would provide more details about the project. Also, include more data analysis, such as comparing yearly data, the differences between women using the substance versus men, and providing data prediction for future years.