Search Your Dream Home

The program is designed for the user to search for their dream home based on the criteria they input into the system. The idea is inspired by home searching engines such as Zillow, Apartment.com, Realtor.com etc.

Due to the commercial nature of most home searching websites, after around of experimentation, only scraper for data from Realtor.com still works by the time this project was completed (May 2024). Therefore, real estate listing information from Realtor.com is used for this exercise.

Selection criteria include zip code, unit size, price range, zip code, neighborhood, unit size, price range, square footage, and housing type. It's not required to select all of the criteria, however, more information would serve better recommendation results.

Users can use this program to find the best match based on their preference. The website also provides information of location as reflected on the embedded Open Street Map, and a photo that provides quick preview of the look. A similarity score measures how good a match the recommended unit is, as compared to user's preference.

The program also has the potential to further recommend similar units above the first finding, which needs further development.

Youtube video demo: https://youtu.be/lZlUImLmxRw

Github repo: https://github.com/elizabeth3714/SI507

Recommended Property Details

zip_code: 19107

beds: 3.0

price_range: 2

style: APARTMENT

sqft: 3

neighborhoods: Center City, Washington Square West

street: 1311 Spruce St

Open Street Map: