

LA Homeless Helper Technical Report

Purpose

The purpose of this project is to create a database of resources that can help the homeless population in the city of Los Angeles.

User Stories

We have not received any problems from our users, so no news is good news!

Documentation

<https://www.postman.com/pmarathi/workspace/cs373-idb-la-homeless-helper/documentation/28474521-c2680f7e-715c-41eb-9829-8d39392a2939>

Models

Cities in LA County

- Unsheltered population
- Sheltered population
- Total homeless population
- Square miles of city
- Density of total homeless population

Shelters and Services

- Name
- City
- Hours
- Zip code
- Phone Number

Medicare and Medicaid Offices

- Name
- Address
- Hours
- Phone number
- URL for their website

Frontend

How the Architecture Works

Challenges

Hosting

Backend

How the Architecture Works

- We have two parts of the architecture right now: main.py and query_APIs.py
- Toolchains: this part was written in Python using Flask

main.py

- This is the main part of the backend that contains the functions that need to be called in order to query our API
- Each function will act as a wrapper to call the respective function in queryAPIs which will handle the logic to actually request the information
- Each function just looks for the necessary information in the database by looping through to find the needed information and then renders it to a dummy page for testing purposes
- For more details on what each function does check out our API:
 - <https://www.postman.com/pmarathi/workspace/cs373-idb-la-homeless-helper/documentation/28474521-c2680f7e-715c-41eb-9829-8d39392a2939>

queryAPIs.py

- This method handles the actual queries to the individual APIs
- query_API takes in a string related to what database is needed and retrieves the information before returning it in the form of a list
- Query_gitlab queries the gitlab API to get information about commits and issues
 - This method relies on a few helper methods listed below, but they function similarly to the original function

Challenges

- This part of the project was fairly straightforward, but figuring out what tools were necessary was challenging at times. Luckily, Zach knew a lot about using Flask to accomplish this part of the project.