Aggregate

Proposed Use Case

CPTS451 Milestone 2

March 28, 2022

For our use case we would like to add an additional filter that lets the user select how far you want the application to search for a business from the latitude and longitude you have entered. We would like it to resemble how we can look for food ‘near us’ and specify within a certain number of miles, say 5 miles, 10miles, 50 miles. etc. So depending on what type of business the user is looking for; they can also specify how broad of a search in terms of distance from their location they would like their results to return. I don’t believe we will need to create an additional table, but we will need to create an additional column that calculates the distance of each business from the user’s latitude and longitude. Business has a latitude and longitude, so when the user enters their latitude and longitude it will calculate the distance between the two locations and only return results within the specified distance set by the user.

This will be dumped into a column called distance. We would only query the business table because we will prompt the user to put in their specified location and then set them to variables in a .py file, then select latitude, longitude from business where business.business\_id = <user-input-business-name>.business\_id;

SELECT latitude, longitude

FROM business

WHERE business.business\_id = <user-input-business-name>.business\_id