**Implementation Logic**

The strategy I used when developing this solution is as follows: first, I wanted to **identify the location of the user.** In my basic implementation, I used the IP address of the user to determine this information. In reality, I recognize that this is not always reliable due to the use of Proxy servers or VPNs, however for this purpose, it was the most convenient.

Next, I ran a **search query using the Google Maps API** in order to determine the food trucks that were within a 1 km radius from me. Within this request, I was able to obtain valuable information such as name, address, hours, etc. This was very important for building my dataset.

Once that was constructed, the next step was to identify the best of the food trucks (once per meal for two days). I was able to do this by **calculating a weighted average** based on the number of reviews, the quality of the reviews, and the distance to and from the trucks. Once the weighted scores were calculated, I picked the best six as deemed by the score.

Finally, I used the folium python library to **plot all of the food trucks** on a map, as well as drawing the suggested travel path.

**Conclusions**

An interesting revelation from the data I ran into was the fact that often times, it is actually not good to simply use the average review rating when judging the quality of a food truck. This is because often times, some trucks will have **high ratings but a low number of reviews**. Although my logic should definitely be more nuanced, considering both of these factors and calculating a weighted average significantly improved my results.

Additionally, another important conclusion from the data was that in situations where the food trucks are **not well connected by a semi-straight path**, it makes sense to simply pick the truck that is closest to you first, and then reevaluate the next closest/best option.

**Environment Setup Notes**

When setting up the Google Maps API, you are **required to have an API Key** to make requests. For the purpose of privacy and security, I have removed this information. However, when building the code, simply insert a variable called api\_key.

Additionally, the **required Python packages** include pandas, requests, and geopy:

%pip install pandas

%pip install requests

%pip install geopy