**User story Format of the feature**

As a user I should be able to query an WEB API directly and look up the following:

All Food trucks in the SFO area

Food trucks by their menu items

Food trucks by their company name

Food Trucks by their proximity to a specific location specified by the users source location

So that I can determine which food truck they want to choose to make dining arrangements.

Note: Assumption is that the lookups are for Food trucks that have an active

**Data Model:**

The data model is based on the requirements the structure of the basic data provided by SFO.csv

1. UUID – Unique identifier for a trucker key
2. Applicant: Business Name or name of the food truck
3. Lat: decimal latitude coordinates of the unique truck
4. Long: longitude in decimal of the coordinates of the unique truck
5. FoodItems: string representation of the truck menu items
6. dayshours: string repetition of the trucks normal business hours
7. PermitStatus: string

The data set source comes directly from [here](https://data.sfgov.org/Economy-and-Community/Mobile-Food-Facility-Permit/rqzj-sfat)

For this feature the data will be loaded directly into the database and no admin feature will be available to update

**Architecture:**

Web API will be hosted on a standard micro service architecture (IIS), protected behind a WAF. The solution is scalable and it will be sitting behind a load balancer. For protection from too many requests will be using an API gateway powered by NGIX. Database is a standard MSSQL database with replication and failover.



**Assumptions About the user or system querying:**

The users can query the data with authentication only, and no authorization. But users should not have direct access to the data source or any of the underlying systems. Only administrators need authorization to access the update functionality but that will be handled in a different feature set.

**Security on the endpoints**