

# **Project Proposal**

## **Group: 22**

Josh (Shaozhuo) Jia  
Phani Teja Kantamneni  
Rajeshri Dattatraya Sonwane  
Amey Totawar

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Instructor: Rakesh Ranjan

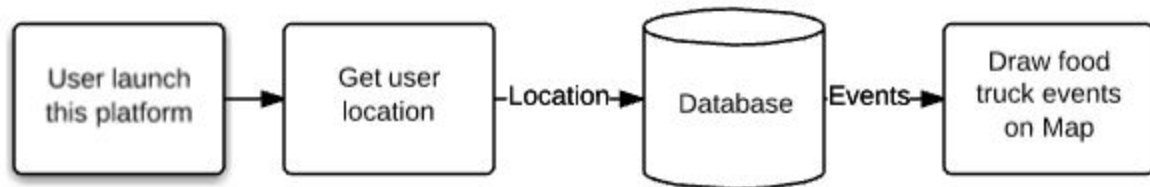
# Food Truck When and Where

## Project description

This project will gather and analyze data from two major sources to provide a map of local food trucks events for everyone to browse.

## Proposed methodology

**This system will display food truck events on a map for all users to browse**



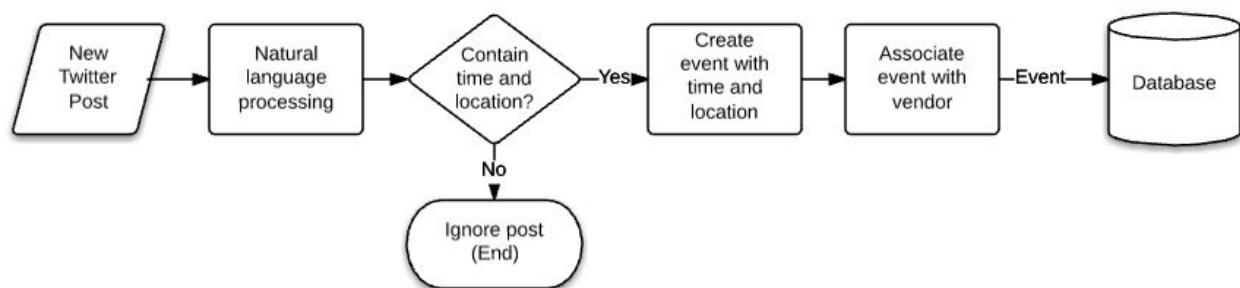
1. User launch this platform
2. The platform asks for user's location
3. The location information is used to fetch events from the database
4. Queried events are draw on a map where user can interact

**This system will be gathering data from two major data sources:**

1. Food truck vendor's twitter feed
2. Food truck vendor create event on this platform (web interface or mobile application)

## Data source #1: Food truck vendor's twitter feed

Whenever a new post was created on twitter by a food truck vendor, this system is notified and a "new post processing" job will be triggered:

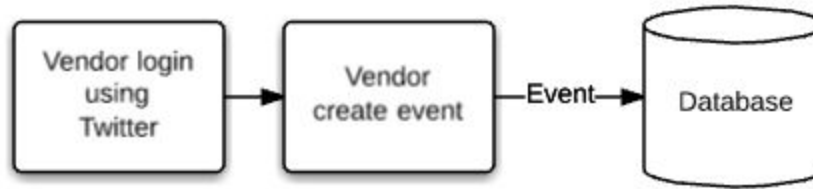


1. The post will be send to a NLP (natural language processing) engine for contextual understanding
2. The system will proceed if an event was recognized, otherwise, the post is ignored and the process is terminated
3. An event object is created with time and location based on NLP results
4. The event is associated with an vendor base on the Twitter handle of the poster

5. The created event is then stored in the database ready for query

### **Data source #2: Food truck vendor create event on this platform**

Food truck vendor can create an event directly on this platform



1. Vendor login to our system by using Twitter
2. Vendor create an event
3. The created event is then stored in the database ready for query

### **Proposed resources**

Required resources:

1. Twitter API
2. List of food truck vendor's twitter handle
3. Database system
4. User account management system
5. Natural language processing software or APIs
6. Web interface or Mobile application

### **Potential Features**

#### **Auto post to twitter after vendor created event on this platform**

Once a vendor signed in to this platform via Twitter, auto posting feature can be enabled every time they posted an event. This would bring ease to the vendor since they don't have to do repeated work

#### **“Open now” IoT device in vendor's truck**

An IoT enabled button can be installed into vendor's truck. When vendor press this button, the device will automatically generate an event with its current location and time. With auto posting, they can even notify their followers on Twitter.

#### **Engage users and crowdsourcing**

Allow users to provide simple feedback about a particular food truck, whether it's open, out of stock on certain items or a photo of the menu.