Hyde Park Lunchtime

Purpose

- We are creating an application that finds lunch options in Hyde Park for a particular day. Our application will allow users to input their location, maximum walking distance, dining style (eg sit-down, food truck, etc.), time of day, and food preference keywords (cuisine type, menu items)
- Our engine will include restaurants in the neighborhood, food trucks present on Ellis and University, and UChicago Dining (including menus for each day)

Data

- We will find food truck information from a twitter feed (@UChiNOMgo and Chicago Food Truck Finder) that monitors it
- We will scrape dining hall menus from UChicago Dining's website
- We will get restaurant reviews and addresses from Yelp (using API)
- We will get menu information on restaurants from Menupages.com (scraping)
- We will get walking directions using street address (maybe UChicago building?)
- Health code violations from the City of Chicago (https://data.cityofchicago.org/Health-Human-Services/Failed-Restaurant-Inspections-2015/enfw-e5zk ) (CSV)

New Technology

- Django web interface
- Yelp API
- Google Maps Distance Matrix API
- Possibly Chicago Food Truck Finder API (pending permissions)

Timeline

- By Monday: have code for scraping UChicago Dining (Will), use Yelp API to get code for Hyde Park restaurant data (Russell) [this code will get the results for a area search around Hyde Park and make a SQL table], code to scrape Menupages (Will), start Django interface (Russell)
- By end of Week 7 (Feb. 21): Food truck data from either Food Truck Finder or Twitter (Russell), health code violations processing code (Will), implement Google Maps Distance Matrix API (Will), continue working on Django interface (Russell)
- By 8th week meeting: should have some of the interface up, all database-building code should be complete
- Last two weeks: coding to generate queries, testing, improving, some grace time if any previous steps take longer than anticipated, think of a better name