

CSW Hackathon: Mobile Food Bank Alert System

By Aleksei Sorokin asorokin@hawk.iit.edu and Sinjin Acuna sacuna@hawk.iit.edu. Please feel free to contact us with any quesitons!

Purpose

Running the `main.py` file will draft an email to users who are within a certain radius of a mobile food bank shown on the [Greater Chicago Food Depository website](#). The program assumes users have set their radius preferences and the data has been collected already (see `data/users.csv`). The drafted email can then be sent out manually or automatically with the drafted fields (see [Sending Emails with Python by RealPython](#) for more info on how this may be done). You can run `main.py` anytime the website is updated to get new emails drafts to subscribers.

Usage

You can create our python environment to reproduce our work using a conda environment and the `environment.yml` file.

To load the drafted emails, you can use the Python commands

```
import pickle
with open ('data/emails.pkl', 'rb') as fp: emails = pickle.load(fp)
```

The variables emails now contains a list of email drafts which may be parsed and sent with the developers desired program.

The draft emails (based on our toy-example users) are printed out nicely below.

```
From: customemail@gmail.com
To: asorokin@hawk.iit.edu
Subject: Food Opportunity

Dear Aleksei Sorokin,

We have identified the following food opportunities near you!

- Greater Auburn-Gresham Development Corp. at 7908 S Halsted , Chicago, IL in Auburn Gresham on Second and fourth Tue; 10AM-1PM
- New Life Centers of Chicagoland: Multiple Locations at 1410 N. Springfield, Chicago, IL in Humboldt Park on Wed; 6-8PM December 2 & 16 January 13 & 27 February 10 & 24
- New Life Centers of Chicagoland: Multiple Locations at 5101 S Keeler, Chicago, IL in Midway on Saturday; 11AM-2PM December 5 January 16 February 6
- New Life Centers of Chicagoland: Multiple Locations at 2657 S. Lawndale, Chicago, IL in South Lawndale/Little Village on Tuesdays & Fridays 9AM-12PM
- New Life Centers of Chicagoland: Multiple Locations at 2759 S. Karlov, Chicago, IL in South Lawndale on Wed; 9AM-1PM

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From: customemail@gmail.com
To: sacuna@hawk.iit.edu
Subject: Food Opportunity

Dear Sinjin Acuna,

We have identified the following food opportunities near you!

- New Life Centers of Chicagoland: Multiple Locations at 1410 N. Springfield, Chicago, IL in Humboldt Park on Wed; 6-8PM December 2 & 16 January 13 & 27 February 10 & 24
- New Life Centers of Chicagoland: Multiple Locations at 2657 S. Lawndale, Chicago, IL in South Lawndale/Little Village on Tuesdays & Fridays 9AM-12PM
- New Life Centers of Chicagoland: Multiple Locations at 2759 S. Karlov, Chicago, IL in South Lawndale on Wed; 9AM-1PM
```