

week 12 report

This week I begin to build my advance search website. My website has already a normal search system, which could use keyword to search photos. now I want to use address, category, uploader and even distance to search photo, for address, category and uploader filter, I use the same way as keywords filter, which is using Django object search library to connect my SQL database, and out put result.

The challenge is the distance filter. My goal is that user input their post code and search area distance, which looks like “post code: 01852. distance 10 miles”, then the system will give user a result with photos which located in that area.

To achieve my goal,I did some research. I find that I could use Uszipcode library to find nearby zip codes which are associated with my input zip code. the reference is “<https://pypi.org/project/uszipcode/>”

Project description

docs **passing** build **passing** codecov **100%** pypi **v0.2.2** license **MIT** python **2.7 | 3.4 | 3.5 | 3.6** [STAR Me on GitHub!](#)

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Welcome to `uszipcode` Documentation

If you are on www.pypi.org or www.github.com, this is not the complete document. Here is the [Complete Document](#).

`uszipcode` is the most powerful and easy to use programmable zipcode database in Python. It comes with a rich feature and easy-to-use zipcode search engine. And it is easy to customize the search behavior as you wish.

Data Points

From version 0.2.0, `uszipcode` use a more up-to-date database, and having a crawler running every week to collection different data points from multiple data source. And API in 0.2.X NOT COMPATIBLE with 0.1.X, please read [Document](#) for more information.

Address, Postal

- zipcode
- zipcode_type
- major_city
- post_office_city
- common_city_list
- county
- state
- area_code_list

Then after some debug, I build this advanced search system successfully. it just looks like below.

figure 1: my advanced filter, could use multiple parameters to search.

Select A Filter

Search by all filters

Your Postcode , Search Distance

Your Postcode

Search Distance, Unit Mile. Example: 10

Select A Categories

All

City Name , State Name, Postcode

City

State

Postcode

Uploder's Name

Uploder's Name

Keywords

Any Keyword Here...

Submit

figure 2: distance filter

Select A Filter

Search by distance

▾

Your Postcode , Search Distance

01850

10

Keywords

Any Keyword Here...

Submit

figure 3: result after apply distance filter

HOME

RESULT

FIND

2

PHOTOS

地图

卫星图像

Flower Lowell Summer

moon star walden pon

915 Walden St ,concord ,MA,01742

View Photo Detail

2

NEW!

1

NEW!

Keyword: moon star walden pon

Location: 915 Walden St ,concord ,MA,01742

Upload by: user@gmail.com

Category: Landscape

View

2

NEW!

1

NEW!

Keyword: Flower Lowell Summer

Location: 300 Arcand Dr ,Lowell ,MA,01852

Upload by: user@gmail.com

Category: Other

View

at the last, I use google API which I used in last report to make my result show on a map. Now it works perfect!