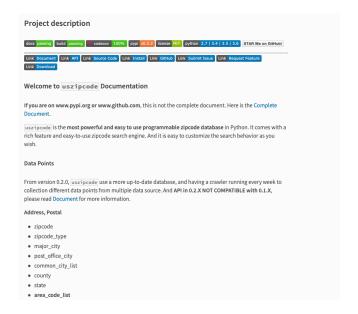
week 12 report

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/"



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.

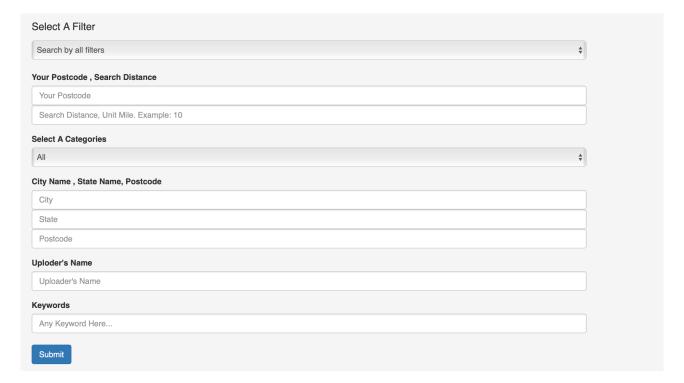
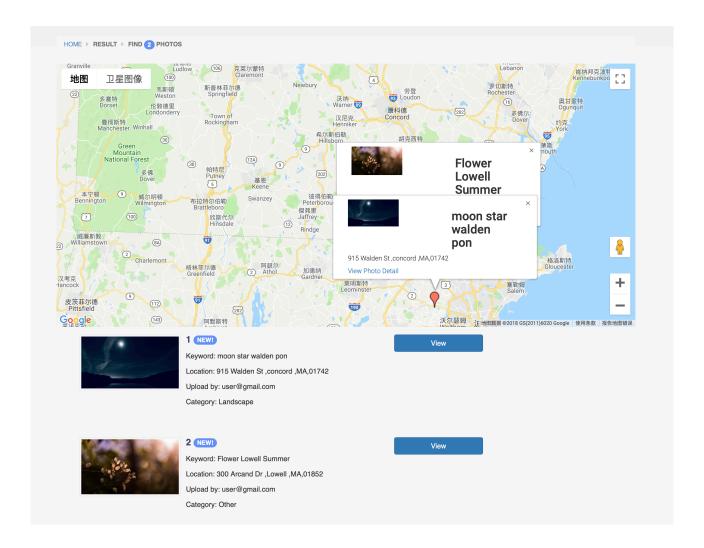


figure 2: distance filter

Search by distance	*
our Postcode , Search Distance	
01850	
10	
Keywords	
Any Keyword Here	

figure 3: result after apply distance filter



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!