Client Meeting Notes (3/16/18)

What to do/look for

* Create a presentation of the proposed tools to meet the requirements
* How many API calls can we make? Consider the number of queries we can do for free
* Local scope is okay (for testing) -- avoid unnecessary API calls
* How much do we have access to? -- Create an aggregation of our resources

**Deliverables for next meeting**:

* Define what we can access for FREE
* List of data that is accessible to decrease the scope of the project
* Give suggestions for the scope of the project using our accessible data
* Define limitations from our accessible APIs

Possible next meeting dates: Wed, March 28 or Thurs, March 29

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| **API** | **Free / Limited access?** | **Accessible Content** |
| [Google Maps](https://developers.google.com/maps/) | - Free  - 25,000 map loads/day | Maps, Street View, Directions |
| [Zillow](https://www.zillow.com/howto/api/APIOverview.htm) | - Free  - 1000 queries per day  - params: city, state, zip, full address | Real estate content,  Market trends,  Ability to compare houses |
| [Nestio](http://developers.nestio.com/api/v2/) | Free | Individual house listings, Realtor contact info |
| [U.S. Dept. of Housing & Urban Dev.](https://www.huduser.gov/portal/egis/docs.html) (HUD iMAX) | Free | Environmental health hazard index,  Income areas, Search by region,  Low income housing tax credits,  Subsidized properties |
| [Urban Algorithms Geo Data API](https://market.mashape.com/urban-algorithmics/urban-geo-data) | Requires account | Crime rate, noise, air pollution, amenities, accessibility, demographics of residents |
| [CareerBuilder](https://developer.careerbuilder.com/) | Requires account (waiting for inquiry reply) | Job search within an area |
| [CareerJet](https://www.careerjet.com/partners/api/) | Free  - limit not specified | Job postings |
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Links of interest  
- <https://gist.github.com/patpohler/36c731113fd113418c0806f62cbb9e30>

- <https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk>

- <https://www.huduser.gov/portal/datasets/HUD_data_matrix.html>

-<https://data.maryland.gov/Demographic/Maryland-Resident-Population-Per-Square-Mile-2010-/key9-38wi>

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Tools we are thinking of using

* AngularJS
* Python for backend

Project scope: Defined in the SDP doc

Proposed Requirements

1. The system shall use the Google Maps API to display locations of search results.
2. The system shall allow the user to view individual listings on a separate interface from the search results.
3. The system should be able to present search results by state (e.g., MD).
4. When the user selects a search result, it shall display pictures of the listing.

More things to keep in mind:

1. Possible parameters for API inputs for google maps, zillow, etc
2. Is job search really necessary? Person moving should already know where they will work
3. Search scope: zip code
4. Result scope
   1. basic features: houses, bathrooms, beds
   2. extra features: school rankings

3/29/18

See what we can actually query from Zillow -- same as website search?

Can we do a search and show lists by zip code, county, etc? -- helps define limitations

What is the granularity of the data? Ex: house pricing by county/

Job listings are not be needed

Can we actually overlay search results on a Google Map?

For the GUI, see what we can design to display results in this order:

1. Get user input
2. Query Zillow/Redfin
3. Get list of properties → display on map