Project Proposal

Project Title:

Purpose :

1 To show the impact of Covid on Restaurants.

Dataset Source: Yelp, **Square Developer,** [**https://platform.opentable.com/documentation/#linking-guidelines**](https://platform.opentable.com/documentation/#linking-guidelines)

<https://pypi.org/project/squareup/>

<https://developer.squareup.com/docs/get-started>

Pick a state:

Total No of restaurants in NJ starting 2020 Jan by each month

Which part of state has the highest number of rest.

Pick a dish and check the statistics.

Years the family-owned business existed.

Year comparison no of rest. In 2019 and 2020 -- Comparison

Rest. activities in year 2020 (change in activity num of pickups , dine in) -- Comparison

Covid effect on the family-owned restaurants to commercial -- Comparison

The change in intake of raw material by rest. During COVID -- Comparison

Cuisine which was least affected - -- Comparison

2. Social impact due to Covid

Dataset: **RescueGroups.org ,** [**https://covidtracking.com/data/api**](https://covidtracking.com/data/api)

<https://marketplace.zoom.us/docs/api-reference/zoom-api>

Adoption rate of pets – Comparison

Type of music currently downloading.

Mental health comparison- Pre and Post COVID

Effect of COVID on physical activities

Zoom stock data review

3. Housing market since initial COVID-19

* Dataset: Real Estate/Housing APIs: [Realtor API](https://rapidapi.com/apidojo/api/realtor)
* [Mashvisor API](https://rapidapi.com/mashvisor-team/api/mashvisor)
* [Commercial Real Estate Insights API](https://rapidapi.com/collection/best-real-estate-apis)
* [ATTOM Property API](https://rapidapi.com/attomdatasolutions/api/attom-property)
* [Estated Data API](https://rapidapi.com/blog/best-real-estate-apis/)
* [Zillow API](https://rapidapi.com/dimashirokov/api/Zillow)
* [Walk Score API](https://rapidapi.com/theapiguy/api/walk-score)
* [Rent Estimate API](https://rapidapi.com/moneals/api/rent-estimate)

Effect of weather on listing, no of listing, length of time from listing to sold, data comparison between 2019-2020

Effect of Tax rates on the housing market.

4. Study the abandoned housing effect on an area

<http://data.ci.newark.nj.us/dataset/abandoned-properties/resource/796e2a01-d459-4574-9a48-23805fe0c3e0>

Google Map Data

FBI Crime Data API: <https://crime-data-explorer.fr.cloud.gov/api>

[8:07](https://rutjervirtdat-csj9987.slack.com/archives/C01PZLJ8MD5/p1615338423007500)

Free government dataset: <https://catalog.data.gov/dataset>

Change over time.

Crime rate to abandoned property relation.

Education rate around the abandoned housing

Poverty rate around the abandoned housing

Abandoned housing to unemployment rate in same area

Age ratio in the abandoned housing area

# Selected Project

Project Title: Study the abandoned housing effect on an area/ Newark

Team Members

Project Description/Outline:

Gather data related to housing, crime rate, school district, education rate, poverty rate, unemployment rate in Newark. Clean the data. Find how this data affects a property getting abandoned.

Find a relation between the above data and no of abandoned houses. Find factors that cause the abandoning of housing in Newark.

Research Questions to Answer

Datasets to be used.

<https://api.developer.attomdata.com/docs#PropertyDataDictionary>

* Newark abandoned housing data.

<http://data.ci.newark.nj.us/dataset/abandoned-properties/resource/796e2a01-d459-4574-9a48-23805fe0c3e0>

* Newark overall housing data

<https://www.bestplaces.net/housing/zip-code/new_jersey/edison/08820>

* Poverty rate data for Newark

<https://www.bestplaces.net/economy/zip-code/new_jersey/edison/08820>

* Crime rate data for Newark

<https://crime-data-explorer.fr.cloud.gov/api>

<https://www.bestplaces.net/crime/zip-code/new_jersey/edison/08820>

* Education/ School data for Newark

<https://code.org/learn/find-school/json>

* Unemployment data for Newark

<https://www.bestplaces.net/jobs/zip-code/new_jersey/edison/08820>

[**Top 10 APIs for Jobs**](https://www.programmableweb.com/news/top-10-apis-jobs/brief/2020/02/23)

* Cost of living

<https://www.bestplaces.net/cost_of_living/zip-code/new_jersey/edison/08820>

Rough Breakdown of tasks:

* Find over all housing in Newark
* Find the abandoned houses in Newark
* Find the Crime rate to abandoned property relation.
* Find the income/ earning/ mean salary rate in chosen area
* Find the Education rate around the abandoned housing
* Poverty rate around the abandoned housing
* Abandoned housing to unemployment rate in same area
* Age ratio in the abandoned housing area
* Does buying abandoned property purchase effects the area growth.
* Find the change over time.
* Comparison of area growth