

Team Name (i.e., The name your provided on Github) \*  
311\_Service\_Mapping\_VEAM

Team members \*

Matt Kaufmann, Angela The, Vignesh Venkatachalam, Eugene Yum

Please provide one paragraph description of the goals of your project. You can list the same description from the previous deliverable or provide new details about aspects that have changed since Week 4. \*

Using 311 Service Request information from the Chicago data portal, we will analyze each neighborhood's "responsiveness" to requests. We will be using 311 data from 2019 to 2021 in order to capture a pre-peak-decline analysis of the pandemic impacts, and will also layer in socio-economic information such as unemployment, income, median rent, and race. Our aim is to understand if there are discernable relationships between a neighborhood's demographic composition and responsiveness, types of issues, and any impact that COVID may have had on these metrics.

Output:

1. A Django based web-app that allows the user to interact with and know neighborhood-specific information about service request responsiveness and demographic composition.
2. Report on key insights from the analysis

For each source of data that you expect to use, please list the source of data, who will be responsible for collecting data from that source, and a date by which you expect the work of gathering the data from that source to be complete.

S. No.	Data Source	Link	Mechanism for obtaining data	Person(s) responsible	Date by which data collection completes
1	311 Service request info - Chicago City Data Portal	<a href="#">311 Service Requests   City of Chicago   Data Portal</a>	API	Eugene, Vignesh	03/01
2	Census tract demographic info (race, income	<a href="#">IPUMS USA</a>	API	Matt	03/01

	level, employment level, median rent) (2010 tracts)	<a href="#">Account Management - Social Explorer</a>			
3	Mapping Address to community area number		Geopandas to get lat/long	Team to do together	03/01
4	Chicago Census tracts (2010) shapefile/GeoJSON		GeoJSON	Angela	03/01
5	Chicago Community Areas shapefile/GeoJSON (neighborhoods)	<a href="#">Boundaries - Community Areas (current)   City of Chicago   Data Portal</a>	GeoJSON CSV or by API	Angela	03/01

Please give a brief sketch of the work that needs to be done to complete your project (other than data collection), include a description of which team member(s) will be responsible for completing this work and the expected timeline for completion. (This is optional for now. We will require this to be filled out in Week #7 at your check-in)

Main Task	Sub-task	Person(s) responsible	Expected Date of Completion
Data Layer	Data Collection	See above table	03/01
	Understanding Data	Team	03/01
	Data Integration - creation of analytical dataset	Team	03/03
Analysis Layer	Calculating service request handling score/time/% completion	Eujene, Vignesh	03/05

	Associating that with corresponding locality	Matt	03/05
	Regression with neighborhood demographic	Matt	03/05
Visualization Layer	Thinking of visualization to represent the above info	Team	03/08
	Working with neighborhood shape files and plotting numbers corresponding to them	Angela	03/08
Dashboard/Web-App combining all three	Django-based Web-App to combine above 3 layers	Team	03/13
Project Auxiliary documents	Creating the requirements.txt file	Team	03/15
	Writing project report	Team	03/15