Final Project Proposal

Team Members:

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Objectives & Motivating Problem (what problem do you plan to solve?)

In the past few years, AirBnB is popular and it is now one of the most popular options for travelers to stay. For the final project, we are analyzing and visualizing the AirBnB data in New York City. The dataset is publicly available on Kaggle.

We create a webpage that allows users to choose a neighborhood in the five boroughs of New York City and see popular room type, prices, popularity based on the number of reviews it has and the number of reviews it gets per month.

The goal of this project is to analyze the prices and room types on the AirBnB visually.

Rough Plan of Work with Approximate Milestones (how will you solve this problem?)

- Data pre-processing
    - Using the dataset from Kaggle we'll preprocess the data in order to use it for the visualization.
- D3 Data visualization
    - We are representing our data on a map using the latitude and longitude available in the dataset. To achieve this we'll be using tools like MapBox, Google Maps API, OpenStreetMap API, etc.
    - Based on the selection of the region from the map, we show a bar chart representing the distributions based on the popular room types, their price, and also show how popular the place is based on the number of reviews it gets.
- Clean up the website
    - Making it look nice and clean.

Deliverables (what will you generate at the end of the project)

An interactive web page which shows the map of NYC and Airbnb listing in the year 2019. The web page will have an analysis of the data for different parameters like popularity, prices, and room types.