

Team TYB Final Project

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What does our Website Do?

Our website helps you pick the perfect neighborhood to live in. When we're on the map, we can see crimes. When we hover over houses for sale, we can get information about them such as recent news. When you're ready, you can click the house for more information like price and number of bathrooms.

File Structure

- app.py
- utils/**
 - neighborhood.py
 - plot.py
 - zillow.py
 - news.py
- data/**
 - crime.csv
- templates/**
 - map.html
 - house.html
- static/**
 - style.css

Descriptions

Code:

neighborhood.py - to plot neighborhood borders and all things related to setting up map areas. We will use NYC Open Data to find the borders of the neighborhoods

plot.py - plot houses, crime points, transportation points, restaurants, etc. on the map

zillow.py - takes the Zillow API's houses and gets cost, as well as other details, about the house. (For this, we can take the address of the house and integrate it to be governable on the map)

news.py - finds recent local news to help determine neighborhood atmosphere. (We can use a sentiment analyzer to rate the address too)

Data:

crime.csv - we will have recent year's crime occurrences in a csv file but it's not necessary to put it in a database. We will find this using NYC Open Data, which shows crimes by neighborhoods

Templates:

map.html - embedded interactive map of NYC neighborhoods with side panel for news. The points will represent houses for sale and where crimes occurred. When you hover over a house for sale, more information can be found, such as an address and link to house.html

house.html - shows more information about the house for sale. The address will be at the top of the page. The price, number of bathrooms, etc. will also be displayed on the page. We will also include the specific crimes in that neighborhood, as well as other information about the neighborhood

APIs:

Zillow API gives address and other information about houses for sale

NYC Open Data displays the neighborhoods

NYC Open Data gives crime information

New York Times API finds relevant news about each neighborhood

Division of Labor

Janet- Project manager, frontend, backend

Reo- backend

Elina- backend

Lindsey- frontend, backend

Schedule

1/6- finish design document

1/8- finish basic HTML template

1/10- have the map set up with neighborhoods

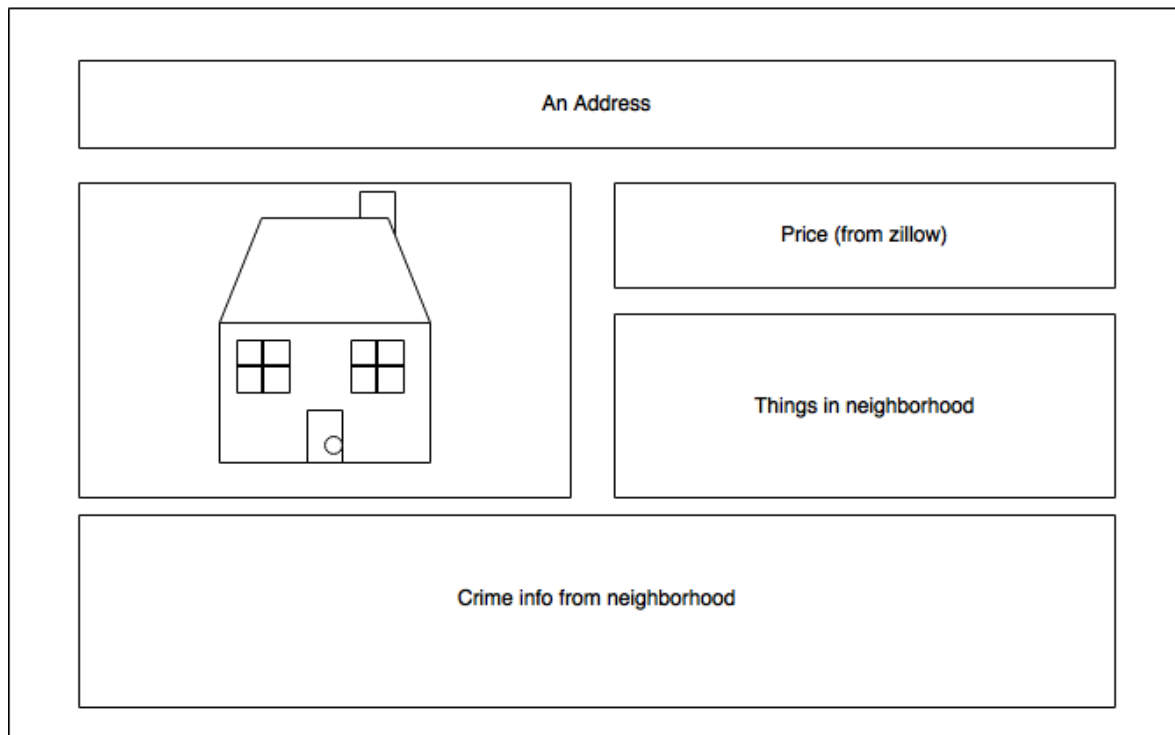
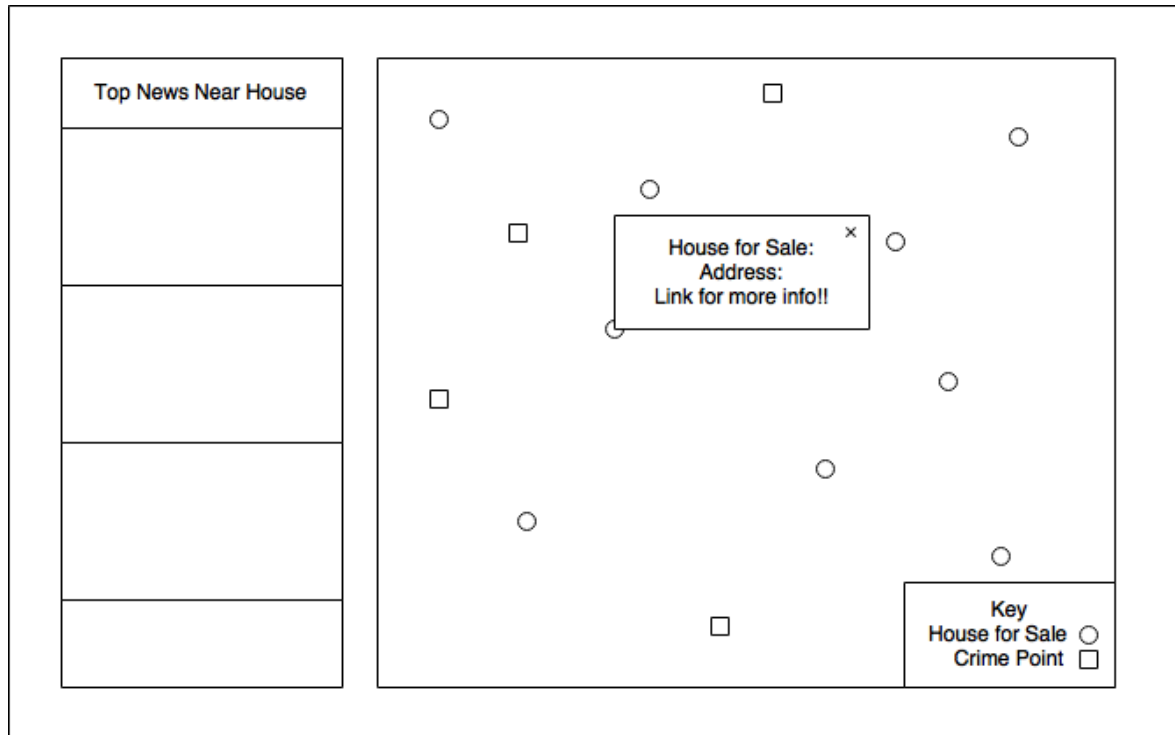
1/17- have crime.csv parsed and put into the map

1/20- have zillow addresses and details inputted into the map.

1/25- have news on the side panel

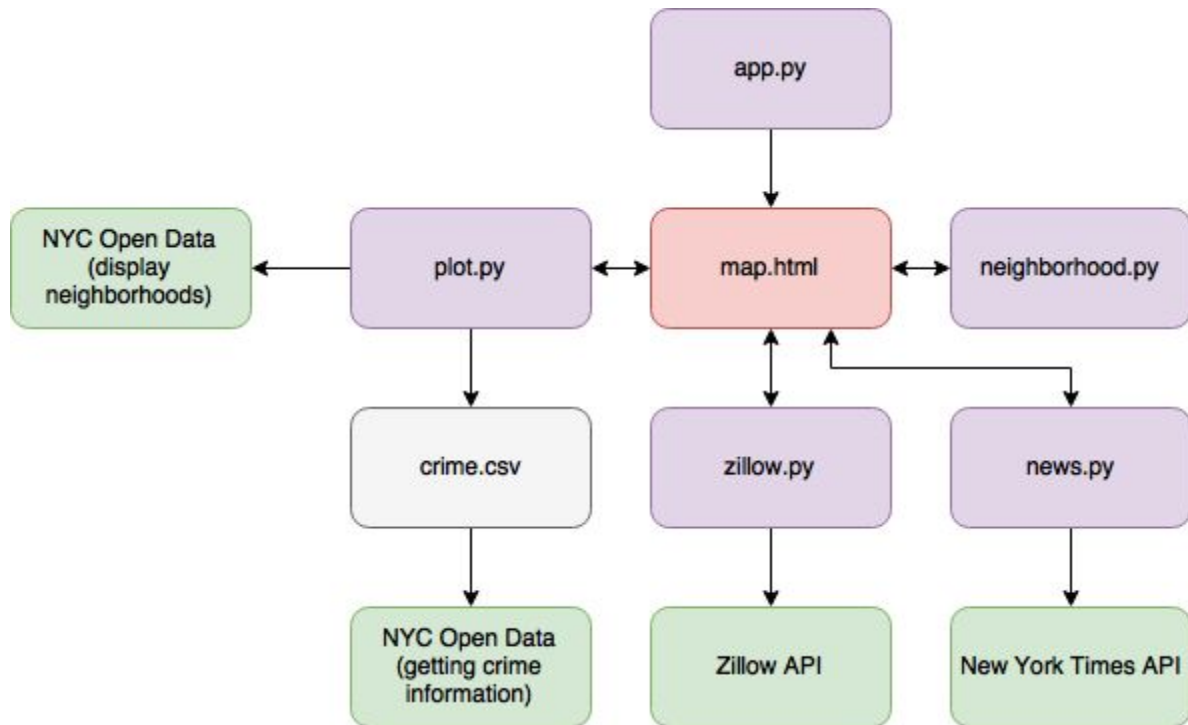
Site Map

map.html



house.html

Component Map



Database Schema

crime.csv

- Lat
- Long
- Date
- Name of crime