

Dancing New Jeans: David Chen, Nakib Abedin, Joseph Wu
SoftDev pd08

P4 - What Does Your Data Do?

2023-05-02

Time Spent: 1.5 hrs

Target Ship Date: 2023-05-22

Project Description

Our project will be a clone of the Real Estate app Zillow, an app that is frequently used by people in order to find homes and apartments that match their price range. We will include information about the education in that area (by visualizing average SAT scores of nearby schools) and the safety of the area (by visualizing crime rates) to help families find the perfect home.

Program Components

- ☐ Homepage
 - ☐ Contains all of the home listings, a trending tab will contain the houses that had the most views recently
- ☐ Login and registration page
 - ☐ User can sign-up and fill in their personal information
 - ☐ Account will be necessary in order to post a house for sale
- ☐ Buy page: Search for houses to buy. Includes a filter
- ☐ Searchbar: type in address to get a range of house information
 - ☐ If smooth search bar functionality becomes too difficult to implement, we may instead opt for a dropdown menu with all the different neighborhoods in NYC
- ☐ Sell page: Post a home for sale
 - ☐ Need to be logged in to access

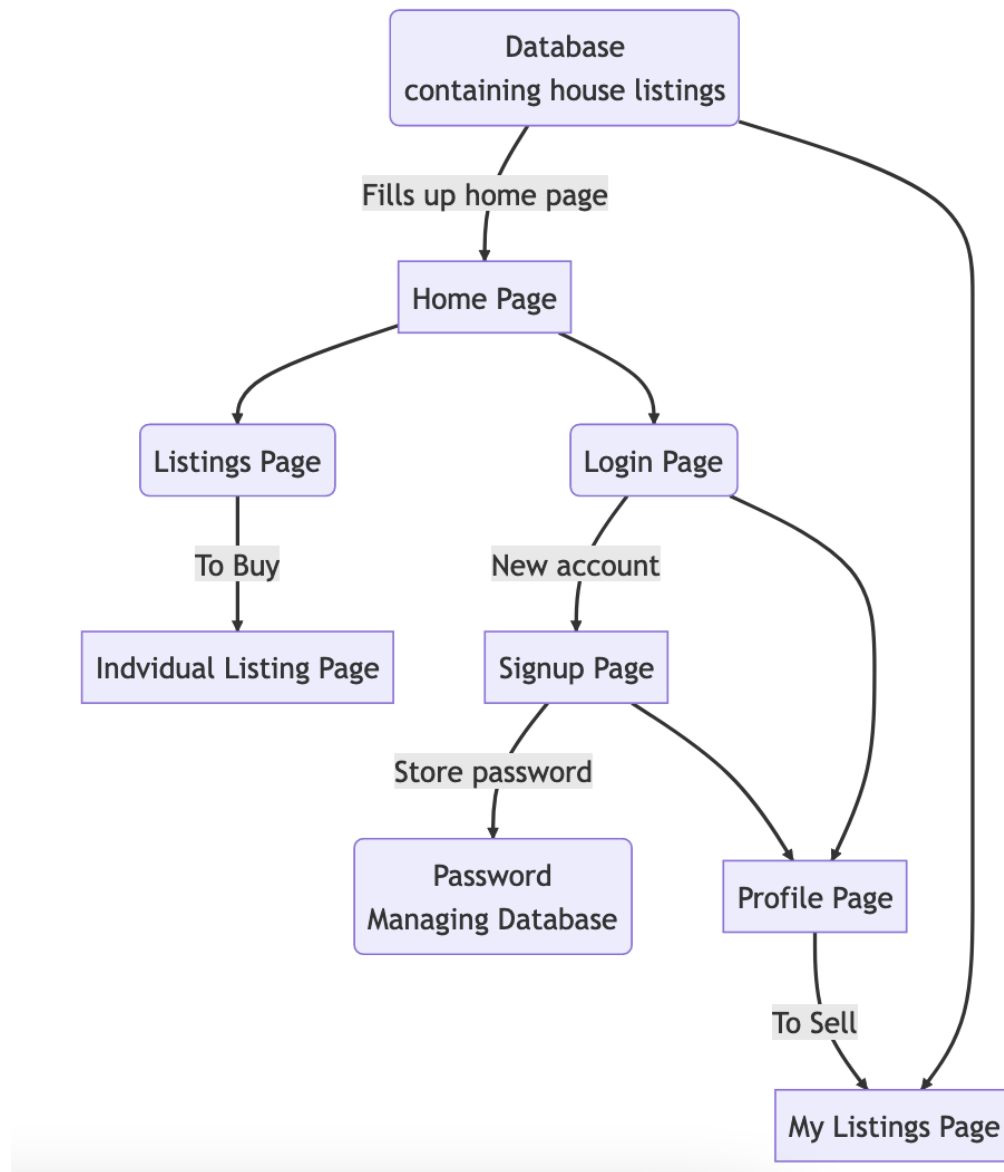
APIs

- Zillow API: Will provide property details, home values, rental estimates, Mortgage data, Neighborhood data. This will be the main way to obtain housing information.
- Bing Maps: Will provide the map to plot data with. Data from the zillow api and sat data can be plotted on this map with javascript that could run once we move the map

CSS/Front end Framework

- Bootstrap
 - The team is more familiar with bootstrap as a whole and therefore it makes more sense to play to our strengths and use bootstrap as our FEF.

Relationship between Components



Database Organization (Backend)

SAT Results Database

DBN	School Name	Student #	Read Avg	Math Avg	Write Avg
M475	Stuyvesant High School	3444	800	800	800

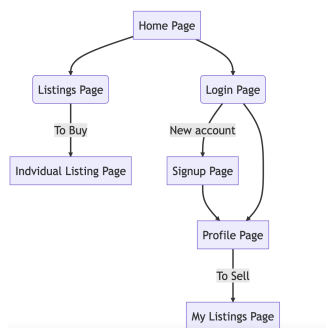
Crime Rate Database

Year	Total	Burglary	Robbery	Rape	Assault	Grand Larceny	Grand larceny of Motor Vehicle	Murder
2012	111,147	19168	20144	1445	19381	42497	8093	419

Search History

Search Name	Search Time
Manhattan	21:03

Website Map (Front-end)



Tasks:

Joseph Wu (Project Manager)

- Will handle the database organization
 - Populating databases contain SAT scores and Crime Rates
 - Writing the functions for retrieval and input of information from the database

Nakib Abedin (Frontend Manager)

- Will organize and format the frontend of the website
 - Will mimic the layout of Zillow to a great degree
 - Will visualize the data from the database onto a canvas graph in order to “bring the data into life”

David Chen (Backend Engineer)

- Will create and maintain API routes
 - Will create a consistent API routing convention
 - Connect the various apis we are using to the backend and database