

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: 2023-05-24

## 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 be using the ATTOM API and the Bing Maps API in order to visualize the information about each property using an interactive map.

## Program Components

- ☐ Homepage
  - ☐ Contains a set of default listings as well a navbar that links to all the other pages
  - ☐ Searchbar: type in address to get a range of house information
    - ☐ Our search bar functionality is a bit buggy because although we are able to redirect to a certain area on the map, the listing of properties does not show up.
- ☐ Login and registration modal
  - ☐ User can sign-up for a new account or login to an existing account
  - ☐ We chose to use a modal instead of a page because we thought it would be better for us to learn how to use modals and because it saved us from having to create yet another webpage to redirect to.
- ☐ Buy page:
  - ☐ Contains a listing of properties and an image associated with each property. Unfortunately, we couldn't find an API that gives us access to house images associated with each property but we decided to use randomly generated art in the place of actual pictures.
- ☐ Sell page: Post a home for sale
  - ☐ We just cloned the frontend of this page from Zillow. To actually sell a property on Zillow, you need to actually talk with an agent and therefore we weren't able to actually have a sell property

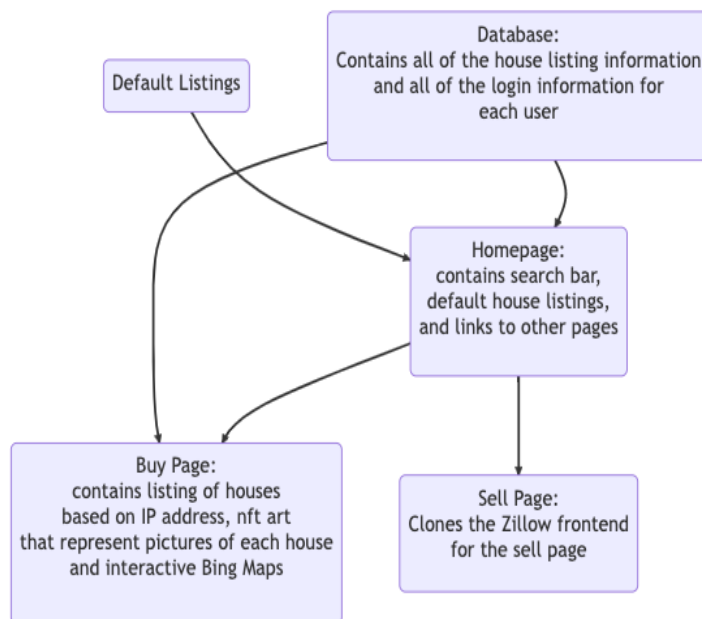
### **APIs**

- ATTOM API: Since Zillow API takes 5-10 business days to provide an API key, we switched to ATTOM API. This API contains information about property value (house price, rental price, location of property value, etc.)
- 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

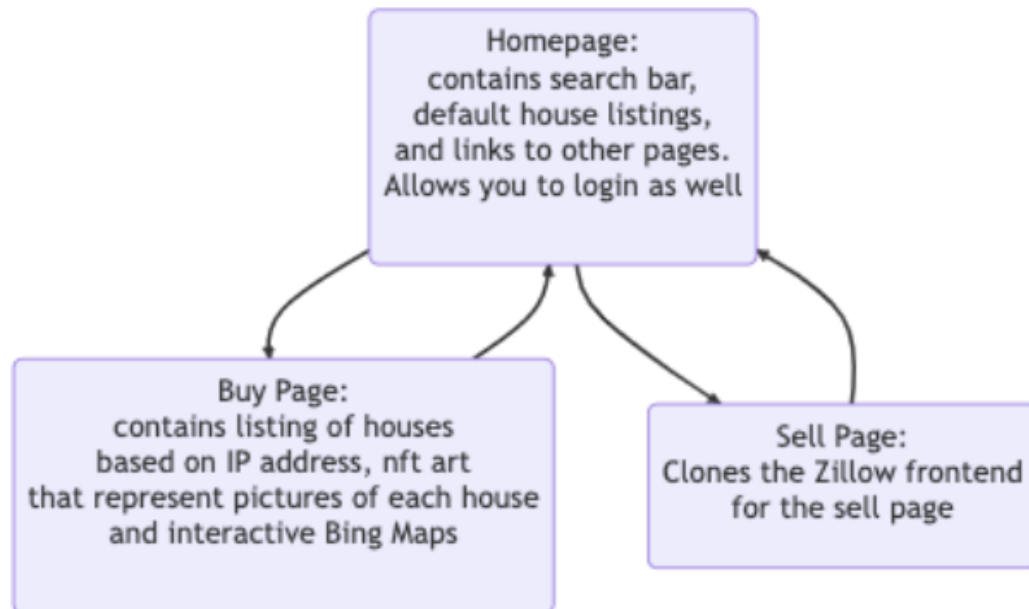


## Database Organization (Backend)

### User Logins

Email	Password
dchen30@stuy.edu	dchenhasasafePassword

## 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 onto the interactive Bing Maps

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
  - Will assist both Joseph and Nakib in debugging problems because he is more experienced.