

## CS411 Project Proposal

### Github Usernames

Maansi Desai: @mdesaibu

Xuexin Li: @LeslieLi599

Amanda Marki: @markics

Edmund Ruan: @edmund-ruan

### Initial Idea

An app that gives the **best recommendation of apartments/housing** based on area crime rate, whether or not it is close to public transportation, and if there is a good selection of restaurants nearby. A database that this project can use is storing the user's preferred location. Furthermore, we can look through Zillow and ApartmentList somehow to get a database of available housing. The main API's that the project will use is a Crime Rate API, Public Transportation API, and a Restaurant API. In terms of third-party authentication, the user will have to login to a social media profile e.g. Twitter.

### Updated proposal

An **apartment hunting** app that shows you the **best and closest restaurants** to your preferred location. Designed to help foodies pick apartments that are within walking distance of restaurants they like. A login screen will give users the option to log in or sign up, both of which will require dual authentication. A database is used to store the Login information of the user. We can look through a realty API to return listings according to the user's inputted City and State. We had to change from Zillow to Realty Mole Property, as Zillow's API did not return listings. When "view more" is clicked on a listing, a list of nearby restaurants, as well as their contact information, is generated using the Yelp API.

### APIs used

- Yelp API
- Realty mole property API
  - <https://rapidapi.com/realtymole/api/realty-mole-property-api>

### OAuth used

Google oauth2 integrated using flask in python