Back End Documentation

views.py:
The controller contains logic that updates the model and/or view in response to input from the users of the app. These functions render which pages to UI along with context.
- Landing Page: Main Page or Landing Page if the user is not logged in.
- Home function: Redirects to home page that has list of favorites and has a condition to remove favorites from the list.
- About Function: Redirects to about page which has some relevant information about the site.
- Mortgage function: Redirects to search page, extracts pin code from address entered by the user and use it to make API call to extract number of properties in an area and send it to search page for display.
- House_details function: Redirects to detail page of a property and have a condition for adding and removing favorites.

urls.py:
This file contains the paths to different pages and which functions to be executed for page rendering. The navigation is completely based from this file.

models.py:
This file contains classes for User details and favorites model which we use to save as tables.

fetch.py:
Functions to make api calls, fetching data and extracting details from the APIs mentioned below.

forms.py:
For creating General Forms.

Calculator.py:
Using information from database and using it to make calculations such as: Cash on Cash ROI, Cashflow, etc. Most of the values are fetched from the API and few are set based on the user preferences table.

Settings.py:
Basic setting for our RTInvest application.

APIs used:

"https://realty-in-us.p.rapidapi.com/properties/v3/list"
"https://realty-in-us.p.rapidapi.com/properties/v3/detail"

Front End Documentation

home.js:
Home page
- houseSearch(): This function is used to search the houses listed in the favorites list of the user in the Home page.

- sort_ascending(): This function is used to sort the houses listed based on the street names in the favorites list of the user in the Home page in ascending order.

- sort_descending(): This function is used to sort the houses listed based on the street names in the favorites list of the user in the Home page in descending order.

- sort_price(): This function is used to sort the houses listed based on the listed price in the favorites list of the user in the Home page in ascending order.

house_details.js:
Details page
- showSlides(slideIndex): This function is used to create a slide show of the pictures for the house selected from the home page.

- plusSlides(slideIndex): This is used to move across to the next picture in the slide show.

- currentSlide(slideIndex): This is used to set the current picture in the slide show.

- setLocation(): This function is used to set the location of the selected house on map and will be invoked on click of the View Location button on UI.

mortgage.js
Search page
init_map():

This function is used to render the map on the Search page. The house details on Cash flow and Cash-on-Cash ROI are fetched and are used to display as markers on the map at the exact location of the houses obtained from the latitude and longitude from the API.

Popup class is defined to customize the map marker to display the values along with icons as markers on the map.

Linked the markers to navigate to the house details page where we see the whole details of the chosen house.