

# USER GUIDE

Below are the steps to run the website after downloading the folder structure as it is and placing it in any path on your local.

Step 0: Go through the requirements.txt file and set up the environment with the list of libraries and packages mentioned. Type `pip install -r requirements.txt` in your command prompt for the setup. If you encounter any error during the installation of Tagui, please refer to ['https://www.yuchenkuang.com/category/TagUI/TagUI-Python-Setup/'](https://www.yuchenkuang.com/category/TagUI/TagUI-Python-Setup/) for correct installation steps and to set up path variables (if needed).

Step 1: open command prompt, navigate to the path (cd to the “server.py” file location) and run the command `py server.py` or `python server.py` or `py3 server.py` if you have both python 2 and python 3 installed. Use the method you usually use to trigger a python file.

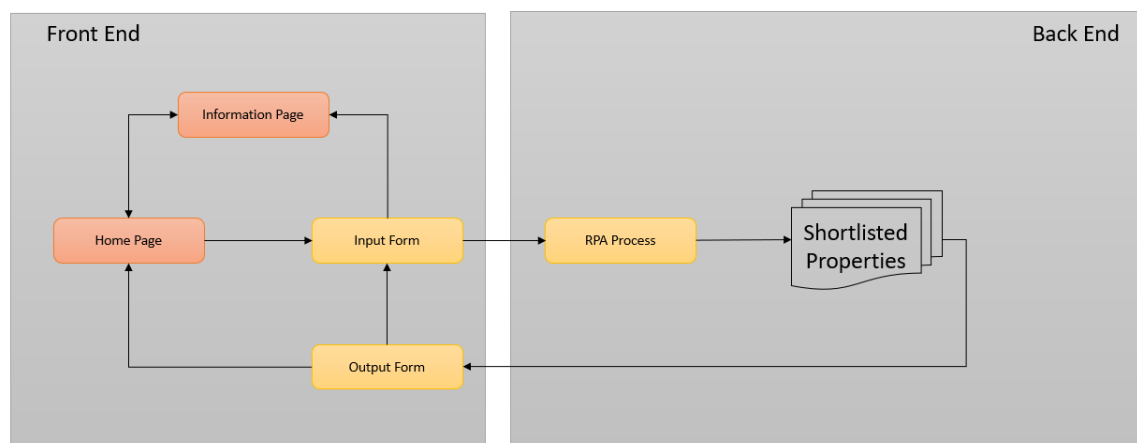
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

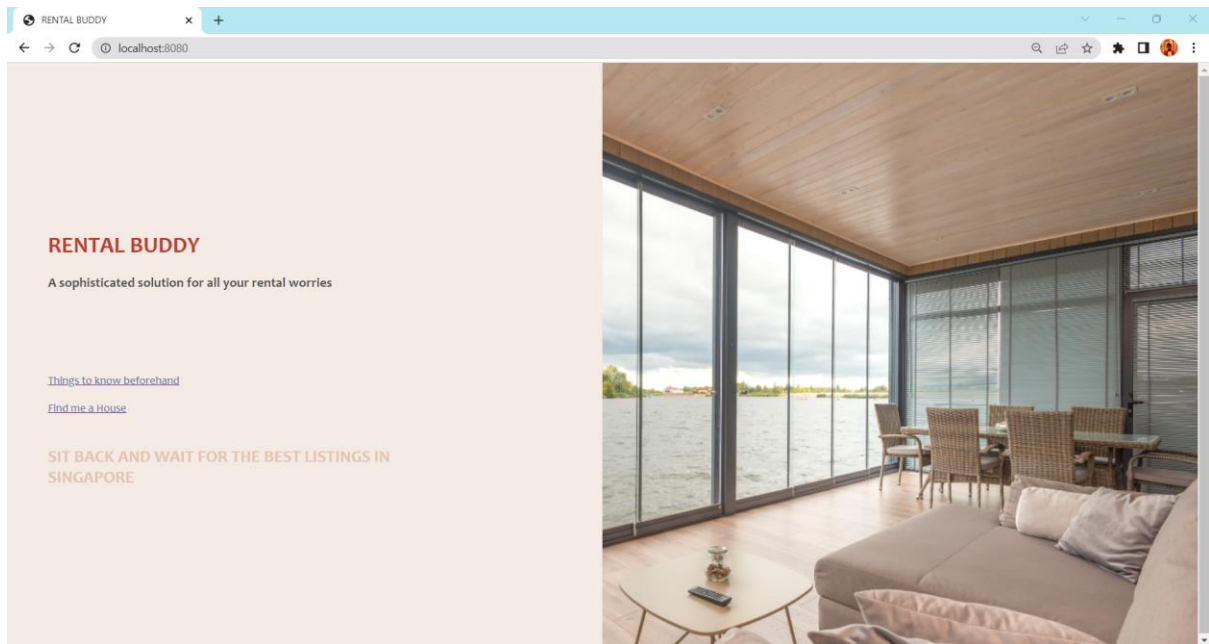
PS C:\Users'                                     \webapp> python server.py
* Serving Flask app "server" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with watchdog (windowsapi)
* Debugger is active!
* Debugger PIN: 891-177-258
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://192.168.10.106:8080/ (Press CTRL+C to quit)
```

Step2: After running you'll see something like the above screenshot. Either copy paste the url displayed above or just type `localhost:8080` in your browser. Which will open our home page.

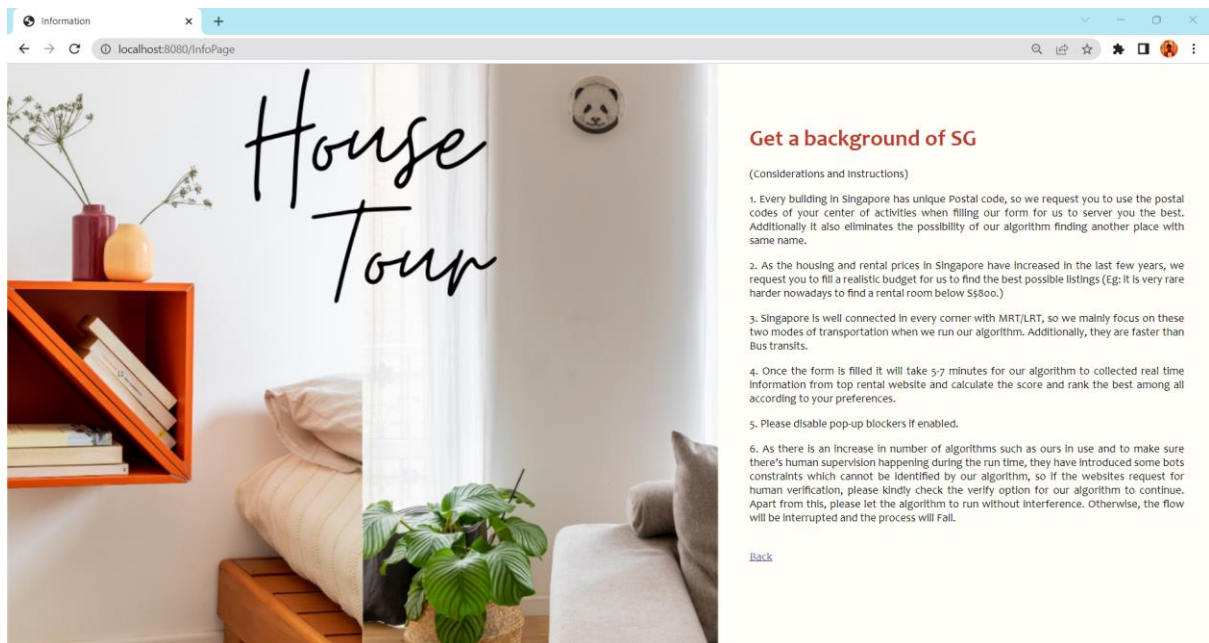
The Structural flow of our webapp is like below:



1. **Index - Home page:** - Used to access two types of services – From filling page (Find me a House) & Considerations and Instructions (Things to know beforehand).



**2. Considerations and Instructions page (Things to know beforehand) – Has a list of few considerations and some basic instructions for using this webapp**



**3. From filling page (Find me a House) – This page is for users to fill in their basic preferences.**

Please fill out the below form

Budget (\$/mo)

Sample: 1500

Looking for?

☐ Entire House ☐ Room

Comfortable Commute Time (mins) 15

Frequent Destinations (Please use postal codes. Visit [Information Page](#) for more details)

Postal Code 1

Postal Code 2 (Optional)

Submit

[Back Home](#)

### Components of this page:

- Budget (\$/mo): An integer, e.g.: 1500 which will be considered as SGD 1500/month as your budget
- Looking for: The type of property you're looking for (either just a room / entire house)
- Comfortable Commute Time (mins): Your accepted commute time in minutes
- Frequent Destinations: Postal codes of 1 or 2 of your Centre of Activities (CoA) in Singapore

### A sample Filled form will look like below:

(We also have options to navigate to Information page and home page from here.)

Please fill out the below form

Budget (\$/mo)

1600

Looking for?

☐ Entire House ☒ Room

Comfortable Commute Time (mins) 50

Frequent Destinations (Please use postal codes. Visit [Information Page](#) for more details)

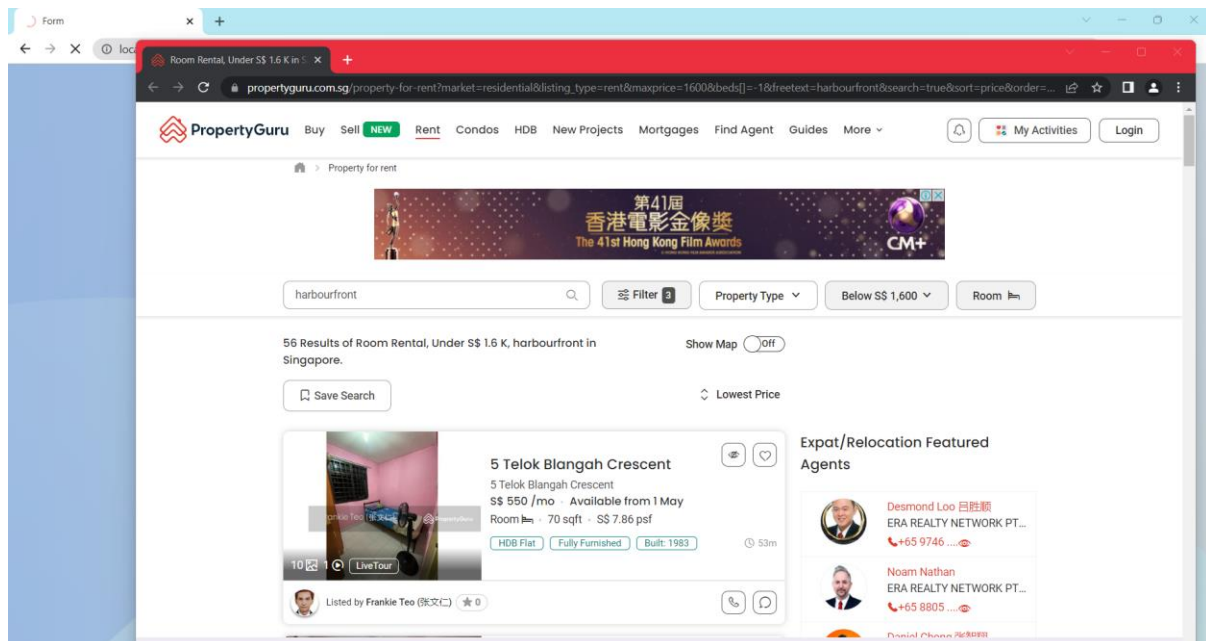
018906

Postal Code 2 (Optional)

Submit

[Back Home](#)

Once your press Submit Our Automation scripts will be triggered and a new additional chrome session will pop up, and start the Task-bot's processing steps. Which you can view as shown in below screenshot.



- 4 Results Page (Top 10 matches for your requirements).** Once Submitting the form and the task-bot starts working on to finding you the best listings, It may take up to 5-8 minutes (depending on your network speed) for the bot to score the top 10 and take you to results page, which can be seen below.

Results

localhost:8080/GAAction

### Top 10 matches for your requirements

Property	Price (S\$/mo)	Estimated commute time	Property Score	Link to quick access
4 Tanjong Pagar Plaza	1200	18	1.5128077702140612	<a href="#">Link</a>
880 Upper Bukit Timah Road	1200	46	1.5128074319982963	<a href="#">Link</a>
1 Telok Blangah Crescent	1200	30	1.5128073643572868	<a href="#">Link</a>
9 Telok Blangah Crescent	1200	31	1.51280733053705	<a href="#">Link</a>
73 Telok Blangah Heights	1200	37	1.5128071276193797	<a href="#">Link</a>
4 Tanjong Pagar Plaza	1200	18	1.5128071276193797	<a href="#">Link</a>
37 Telok Blangah Rise	1299	28	1.5118317464585074	<a href="#">Link</a>
80A Telok Blangah Street 31	1300	26	1.5118232305070143	<a href="#">Link</a>
103A Depot Road	1300	32	1.511823057574971	<a href="#">Link</a>
103A Depot Road	1300	32	1.511823057574971	<a href="#">Link</a>

Please resubmit this [Form](#) if the results are unsatisfactory.  
[Back to Menu](#)

For Scoring details, please check the project report for detailed explanations.

You can directly click any of the listed links here to open that listing for further check.

The screenshot shows a web browser displaying a PropertyGuru listing for '4 Tanjong Pagar Plaza'. The browser's address bar shows the URL 'propertyguru.com.sg/listing/hdb-for-rent-4-tanjong-pagar-plaza-24425168'. The PropertyGuru website header includes navigation links for 'Buy', 'Sell', 'NEW', 'Rent', 'Condos', 'HDB', 'New Projects', 'Mortgages', 'Find Agent', 'Guides', and 'More'. A 'My Activities' button and a 'Login' button are also visible. The listing title is '4 Tanjong Pagar Plaza', with a sub-label 'HDB Flat'. Below the title are icons for sharing, a heart, and a 'Contact' button. The main content area features a grid of images: a living room with a desk and chair, a kitchen area, and two views of a bathroom with a toilet and shower. Below the images are tabs for 'Overview', 'Price Insights', and 'Location'. The price is listed as 's\$1,200 /mo' with a 'View To Offer' button. The property details are 'Room 1', '150 sqft', and 's\$ 8.00 psf'. A video player is partially visible on the right. A notification box on the right side of the page says 'Setting up your profile with your needs gets you better responses from agents. Set up your profile'. The Windows taskbar at the bottom shows the time as 12:32 on 4/15/2023.

Incase if the listings are unsatisfactory, please try and resubmit the form with slight changes and you can get different listings.