

HomeAwayFromHome
SOFTWARE LAB PROJECT
INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Mind Benders

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1 Introduction

'HomeAwayFromHome' is a home rental website to find a reliable home without paying any brokerage. The current tenant, who is about to leave the property, can post pictures, landlord's nature, and conditions of the property and in return, he will get some coins which he can redeem later. In case, there is no tenant living in the property then the landlord can post pictures of his property by clearly specifying all the details. Thus, the users can directly contact the landlords by communicating with the current tenant.

On this website, a user can search about the flat or room nearby him/her based on his requirements and get to know the actual condition of the property. User can also rate the current tenant, who posted about the property, based on the information provided by the current tenant.

2 Motivation

Finding a rental house which perfectly suits one's requirements is always a tedious job to do. The property should ideally be close to the office conveniently located near supermarkets, schools, malls, and other hubs of activity essential for day to day needs. It should be located in a secure and peaceful environment. To top it all, it should fall within one's budget. Hence, proper screening before selecting a house is of utmost importance, no matter the situation.

On various online websites, the broker acts as a middleman between the landlord and the tenant who charges a huge amount of money to finalize the deal. Many times the pictures put up on the website are not the same as the property's actual condition. The neighborhood promised often turns out to be the most hideous one. The previous tenants can tell about the actual condition of the property and they can also guide the new tenants about the pros and cons of the place so that the new tenant gets to know the actual situation of the property. If all such old tenants come together to list their rental property and various advantages and disadvantages of that property then finding a reliable house will no more be a problem to anyone.

The motive to develop this website is to develop a platform where one tenant can help another tenant. The tenant who is leaving the flat can let the new tenant know about the actual situation of a place. Also finding a place without a broker is really difficult. Even the broker starts by showing us the worst places he has to offer and also tries to misguide us so that he can rent out the worst he has and saves the best for later. Also the broker takes advantage of someone's situation and charges a huge amount for the deal. Thus our main motive is to create a platform which will overcome such problems and will help us in building a community of tenants where they can help each other while getting help at the same time. When someone leaves there's a good chance that he/she will also be needing a place to rent. The other motive behind this website is that there are many situations when a roommate has to leave suddenly or someone has to leave the place due to some reason and doesn't get a chance to notify the landlord in advance. Our platform will also help in such cases where sudden need of roommates and tenants can be fulfilled.

3 Dependencies

- python3.6
- flask
- flask-wtf
- flask-sqlalchemy
- flask-bcrypt
- pillow
- web browser

4 Using HomeAwayFromHome

To use HomeAwayFromHome, install the following dependencies:

To install python3 on ubuntu, run the following command on terminal:

- ***sudo apt install python3.6***

To install flask, run the following command on terminal:

- ***pip install flask***

To install wt-flask form, run command:

- ***pip install flask-wtf***

To handle sqlalchemy database, install package flask-sqlalchemy:

- ***pip install flask-sqlalchemy***

To handle encryption of password, install package flask-bcrypt:

- ***pip install flask-bcrypt***

To handle image resizing, install package pillow:

- ***pip install pillow***

After installing these packages, clone the project from github

- Extract file
- Open terminal in the directory where main.py file is present
- Run command: `python3 main.py`
- To access the application open the web browser and go to "localhost:5000"

5 Various functionalities provided by the website

- The Tenant or Landlord who wants to create a post has to register first.

The registration form is titled "Join Today" and is located on the "Home Away From Home" website. The form includes the following fields and options:

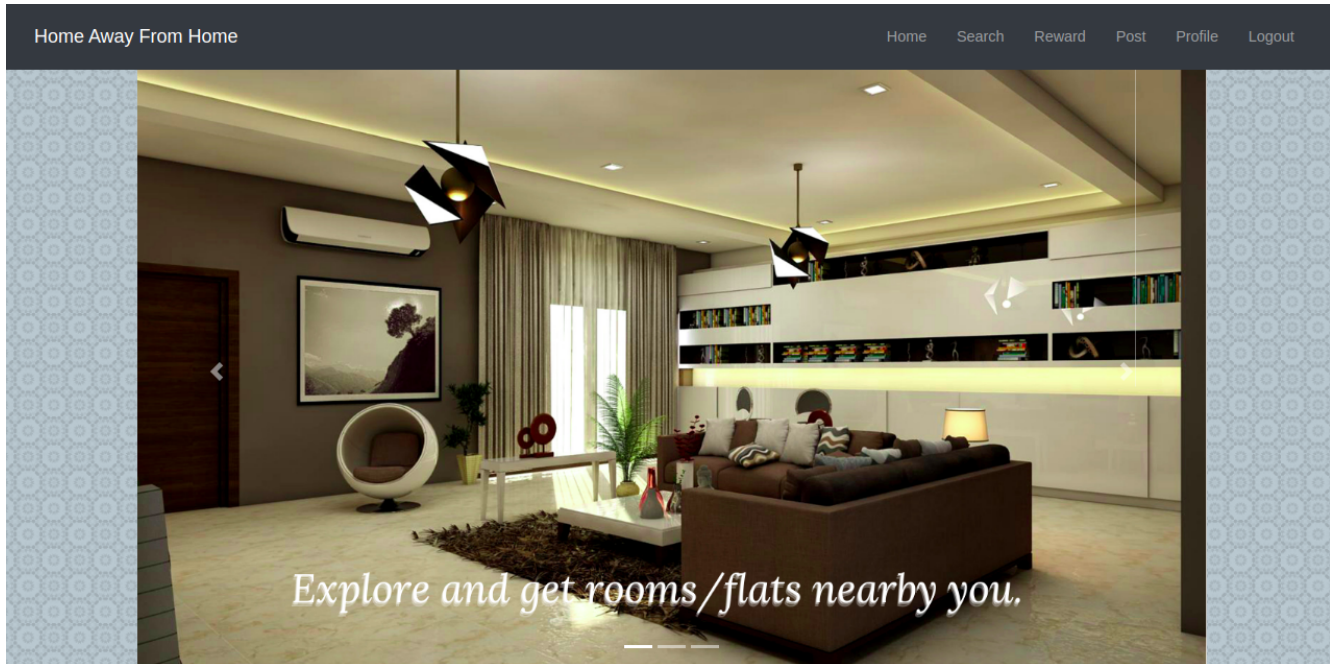
- Name:** A text input field containing "John".
- Email:** A text input field containing "john@test.com".
- Password:** A password input field with masked characters "*****".
- Confirm Password:** A password input field with masked characters "*****".
- Contact:** A text input field containing "9876543210".
- Date of Birth [DD/MM/YYYY]:** A text input field containing "01/01/1995".
- Role:** A radio button selection with two options: "Tenant" (selected) and "Landlord".
- Register:** A blue button to submit the registration form.

- After registration Tenant/Landlord can login using his credentials.

The login form is titled "Log In" and is located on the "Home Away From Home" website. The form includes the following fields and options:

- Message:** A green notification box stating "Your account has been created, please LOGIN".
- Email:** A text input field containing "john@test.com".
- Password:** A password input field with masked characters "*****".
- Login:** A blue button to submit the login form.
- Need An Account? Register:** A link to the registration page.

- Tenant/Landlord will be directed to the homepage of the site once the log is successful.



- Tenant/Landlord can create a post (only when logged in)

Post

State

Madhya Pradesh

City

Indore

Area

Bhawarkuan

Pincode

452001

Rent

21000

No. of bedrooms

- ☐ 4-BHK
- ☒ 3-BHK
- ☐ 2-BHK
- ☐ 1-BHK

Furnishing Type

- ☐ Fully-Furnished
- ☒ Semi-Furnished
- ☐ Not furnished

Amenities

☐ Refrigerator

☒ Washinn Machine

Nature of Neighbours

good

Comments

Nice Overall

Nearby

Gym, Hospital, Parks, i-bus stop

Rate 1-10

9

Property's Pic

room1.jpeg

Property's Pic

room01.jpeg

Property's Pic

xroom02.jpeg

Property's Pic

No file chosen

Property's Pic

No file chosen

- User can update his profile picture and see his posts on his profile page.



John

john@test.com

9876543210

Tenant

My Rating: 1.0

My Coins: 0


Update Profile Picture

Update Profile Picture

No file chosen

My Posts:

Posted by : [John](#)



Bhawarkuan, Indore

Madhya Pradesh, 452001

Flat Type : 3-BHK

Rent : 21000

Rating : 9/10

Posted on : 16-11-2020

Landlord's Nature : very Good

Neighbour's Nature : very Good

Comments : Nice Overall

Furnishing Type : Semi-Furnished

- ☒ Washing Machine
- ☒ Almirah
- ☒ Bed
- ☒ Geyser
- ☒ Sofa Set

- User can rate another user based on his experience with the reviews provided by the user

Home Away From Home

Home Search Reward Post Profile Logout



Sawan Malgaya

203050085@iitb.ac.in

9526053260

Landlord

Rating: 3.5

Coins: 2.1

Rate the user

- ☐ 5 stars
- ☐ 4 stars
- ☐ 3 stars
- ☐ 2 stars
- ☐ 1 star

- User can search for the posts even while he is not logged in. But he cannot check the profile page of the user who posted that post while he is not logged in.

Please fill the details to search

State

Maharashtra

City

Mumbai


Colony

Powai

Search

- User can search as well as apply different filters according to his needs

Posted by : [Sawan Malgaya](#)



Powai, Mumbai
Maharashtra, 400076
Flat Type : 2-BHK
Rent : 25000
Rating : 4/10
Posted on : 15-11-2020
Landlord's Nature : Good, decent
Neighbour's Nature : Good, decent
Comments : Noisy due to banquet hall.
Nearby : Restaurants, Cinema Hall, Banquet Hall, Bank

Furnishing Type : Semi-Furnished

- ☒ Air Conditioner
- ☒ Bed
- ☒ Sofa Set

Apply Filters

Please select range of rent:

Minimum rent: Maximum rent:

1000 50000

No. of bedrooms

- ☐ 4-BHK
- ☐ 3-BHK
- ☐ 2-BHK
- ☐ 1-BHK

Fully-Furnished


- ☐ Fully-Furnished
- ☐ Semi-Furnished
- ☐ Not furnished

Furniture, Appliances & Electronics:

- ☐ Refrigerator
- ☐ Washing Machine
- ☐ AC
- ☐ Almirah
- ☐ Bed
- ☐ Geyser
- ☐ Gas Stove
- ☐ Sofa Set

Minimum Rating: 1

Posted by : [Sawan Malgaya](#)



Powai, Mumbai


Furnishing Type : Fully-

- User can see different rewards specified on the reward page of the website.


Home Away From Home

HomeSearchRewardPostProfileLogout


Yaay!! Help other tenants and get rewards or win something cool..

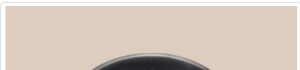


Get iPhone using 10,000 coins*



Get Laptop using 5,000 coins*





More about Rewards

- You should have atleast 200 coins to get any* rewards.
- You should have atleast 800 coins to get one of the shown rewards.
- You can get boAt-235 wireless bluetooth earphones using 400 coins.
- You can get 200 INR using 200 coins.

* Currently available in our reward list.

How to get your Rewards

- Email us at Mindbenders4.0@gmail.com when you have minimum 200 coins

6 Future scope

This website can be very helpful to meet the exact requirements of different users. Users can easily find a place according to their personal needs and that too without paying the brokerage. Users can shift to the new place without spending much time on the property's whereabouts. The user who posts regarding the property can earn coins and later redeem it to win exciting offers.

In the future, there can be many other functionalities that can be added such as:

- The rent agreement can be provided by the tenants before posting any post so that the post can be more legitimate(document provided should also be verified using different tools)
- A message chatbox can be added to chat with the person who posted about the property
- Comments and like option can be added on the post.
- Machine Learning can be used to show more specific posts.