

Group : 32
Project Name : Estate Locator

TEAM DETAILS

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Project Description : Design a system that finds/locates the potential possible neighbourhood for real estate investment according to users need.

Stakeholders:

1. Property buyer.
2. Property Mediator
3. Property Seller
4. Builders
5. Investors
6. Developers
7. Corporate Occupiers
8. Municipal Corporation/local Authority
9. Support Organization
10. Social and Political Organizations

Users:

1. Buyer
2. Seller
3. Admin

Features:**For USERS/BUYERS**

1. Login Page/SignUp page : It's a basic Login/SignUp page. By logging in users will be redirected to their personalized feed.
2. Profile of user: This will allow the user to see his wishlist, see posted adds, etc.
3. Search property: This is the main feature of the system, it will help the user to find a property according to his search specifications, which are not known currently from the problem statement from the client.
4. Post a property : This feature allows a user to post an advertisement of a property which would be verified by the support organization
5. Discussion forum: This feature will allow the users to connect and discuss about the scope of investment in that property.
6. Explore neighbourhood- MAP view: This feature will allow a user to explore the neighbourhood of a property which is currently viewed.
7. wishList: This feature will allow a user to keep a property under his eye for his future reference.
8. Recommended : The properties would be recommended on the base of past search of the users and also the trending search areas.

FOR ADMIN

1. Manage Users: The admin could add/delete users according to needs of the system
2. Accept payment for each post of property : The admin would be able to accept and confirm a payment for an advertisement and also see all the statistics related to payments.
3. Document Verification: The support organization will manage the property verification and change the status of an advertisement to verified.

Non-Functional Requirements:

1. Availability : The system should be available at any time and at all platforms
2. Maintainability : The algorithm for search and recommendation should be clean and maintainable as most of the cost is used for maintenance.
3. Performance: The search results should be quick and not take a lot of time as the user would not like to wait for a long time.
4. Scalability: The system should be scalable, as in future we could add in new cities and places
5. Security : Security is required for all the transactions performed from the system.
6. Reliability: The search results provided by the system should be reliable as should incorrect results could reduce the customer trust.
7. Usability: The UI should be such that a novice user could also use the system with ease.

UI for each users:

1. Buyer/Seller interface : This could be a webapp, so that it could be used on all platforms and would be easy to use.
2. Admin interface : This would also be a webapp for the admin to use the functionalities listed above.

Open issue:

1. Dummy User
2. Wrong Price
3. Cross verification
4. Property details remove from site when deal done

2. Choose one of the detailed functionality of your project, and explain it in detail.

FR. Search Property by User Requirements**FR 1.1**

The user can search properties by either providing the name of city, or area, or pincode or browsing by map. If a user is interested in a property, he/she can click on the property card, which will open the description of the property. The user can add the property of his choice to his wishlist by just clicking on a button.

FR 1.2

The user enters an area for which no estate is found or the search string is empty then the page would display no results found along with the recommended properties feature.

INCONSISTENCY

On what basis should the properties be ranked in the search results?

There might be inconsistencies in the details of the estate, as the details of the estate may change and not updated in the system.

INCOMPLETENESS

What would be the search result for an empty search request?

The exact radius of a potential neighbourhood is not provided.

INCORRECTNESS

Information provided by seller can be incorrect or no longer be valid which would affect the search results

AMBIGUITY

On what basis would a user perform the search operation?

What is the exact meaning of potential neighbourhood for the client?

A lot of properties could have the same names or details, hence making it difficult for the user to search a specific property

UPDATED FUNCTIONAL SPECIFICATIONS

The search would work in this way.

As there was no information on what a user would search, the user could enter the location or the users budget. The user could enter a string with the name of location in the search with location and in the budget search the user could enter his budget, and search with both the filters at the same time. The search results would be ranked based on the users need like ascending based on price or area of the estate or popularity of an estate, etc. There can be many search filters on which the ranking can be based.

The search result for an empty string would be a message on top of the screen along with some recommended results which would be based on the previous search and the popularity of a property.

The search results would at the moment include only the properties available in the area specified by the search requirements.

By using such functional specifications we should be able to remove all the ambiguities in the problem statement.