

## **DATABASE PROJECT - Online Real Estate Listing System**

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### **Objective:**

The designed and implemented database is the backbone of an online platform where property owners can efficiently list their properties for sale, and interested buyers can easily find their desired properties and directly approach the listing party. By organizing user data, property details, and user requirements, the database streamlines interactions between owners and buyers, facilitating seamless communication. This platform eliminates the need for middlemen, allowing multiple property owners to sell their properties efficiently while ensuring a smooth deal between the parties involved.

Let the website be called "**PropertyElysium.com**".

### **Application Users: -**

1. Landlords
2. Buyers
3. Property Sellers (Private owners / Real Estate Organizations)
4. Tenants
5. Surfers

### **Use Cases - Landlords: -**

These are the users who want to sell their property or want to give their properties for rent. These people have their specific identification after authentication.

1. Register
2. Modify Property details

3. Add new property
4. View recent interests

### **Landlord login details**

Landlords are required to register on the website. Upon registration, each landlord is provided a unique ID. For landlords, we capture the following details through the online registration:

- 1) Name
- 2) Profession
- 3) Contact Number
- 4) Email

### **Property details**

Landlords are required to upload their property details and are required to register on the site before doing any activity. Each property is assigned a unique ID. Each property must be registered and have a valid ULPIN / RERA ID.

We capture the following property details upon registration:

Detailed address, property description, landmark(s), property size(in sqft), average price per sqft, property price.

### **Modify property details:**

Users can update the property details, for example, update the property price, and update the availability.

### **Add a property:**

Users can register a new property by providing the essential details. property on their wishlist.

### **Use Cases - Buyers: -**

These are the users who want to purchase lands, houses, or properties such as houses or shops based on their financial conditions and requirements. They have logged in properly. After they logged in they got their Buyers ID which is Unique for all Buyers.

1. Register or Login & Unique ID
2. Search properties based on their requirements
3. Contact the owner for inquiry
4. Maintain a wishlist of properties of interest.

### **Buyer login details**

Buyers are required to give the following details upon entering the website:  
Name, email, phone number, age, and address(optional).

### **Search properties based on their requirements**

Buyers can provide their specific area, landmark, budget, and property type requirements.

Users can filter the properties according to different criteria such as budget, rating, and locality.

### **Contact owner for inquiry**

Registered buyers will be provided the contact details of the owner such as mobile number or email.

### **Maintain a wishlist of properties of interest**

Buyers will be able to shortlist/bookmark the properties of their interest so that they may be notified of the property status (sold/unsold) or price drop in those properties.

### **Use Cases - Property Sellers ( Private owner / Real Estate Organizations): -**

These users intend to list their properties for sale, which can be categorized into two types: private properties or real estate projects. They log in accordingly to initiate the sales process.

1. Update property inventory
2. Mention Contact details
3. View recent interests

### **Private seller login details**

Sellers are required to register on the website. Upon registration, each seller is provided a unique seller ID. For sellers, we capture the following details through online registration:

Name, property details, contact number, email

### **Property details**

Sellers are required to upload their property details and are required to register on the site before doing any activity. Each property is assigned a unique ID. Each property must be registered and have a valid ULPIN / RERA ID.

We capture the following property details upon registration:

Detailed address, Property description, Landmark(s), Property size(in sqft), Average price per sqft, Property Price.

### **Update property inventory:**

Sellers can update the property details, for eg: Update the property price, update availability or remove the property once it is sold.

Sellers can add a new property by providing the essential details.

### **Organizational seller's login details**

Organizational sellers are required to upload their property details and are required to register on the site before doing any activity. Each property is assigned a unique ID. Each property must be registered and have a valid ULPIN / RERA ID.

We capture the following property details upon registration:

Detailed address, Property description, Landmark(s), Property size(in sqft), Average price per sqft, Property Price, and quantity of different properties to be put on sale.

### **Update property inventory:**

Sellers can update the property details, for eg: Update the property price, update availability or remove the property once it is sold.

Sellers can add a new property by providing the essential details.

### **Use Cases - Tenants:-**

These are the users who want to occupy a property for rent. They search the properties based on their short-term requirements, mainly monthly basis.

1. Register or Login & Unique ID
2. Search properties based on their requirements
3. Contact owner for inquiry
4. Maintain a wishlist of properties of interest.

#### **Register or Login & Unique ID**

Buyers are required to give the following details upon entering the website:

Name, email, phone number, age and address(optional), marital status, gender, caste, religion.

#### **Search properties based on their requirements**

Same as listed under buyers

#### **Contact owner for inquiry**

Registered tenants will be provided the contact details of the landlords such as mobile number, email, or address.

#### **Maintain a wishlist of properties of interest**

Tenants will be able to shortlist/bookmark the properties of their interest so that they may be notified if the property status (available/already given for rent) or price drop in those properties.

### **Use Cases - Surfers( Unlogged Users ) :-**

These are the users who can visit the database without any login details and search for all their queries.

1. Search Lands or Houses or Shops without any login details.
2. Maintain a wishlist of properties of interest.

### **Search Lands or Houses or Shops without any login details**

Surfers would be able to search, and filter houses/flats for buying or renting without being able to access the contact details of the owner.

### **Maintain a wishlist of properties of interest**

Surfers will be able to shortlist/bookmark the properties of their interest.

### **Search(Buyers/Surfers)**

Buyers/surfers can search for homes that they want to buy or rent based on area, type of home, city, budget, landmarks

### **Maintain wishlists**

Buyers/surfers can make a wish list based on their properties of interest

### **Search( Tenants)**

Tenants can search available land that they want to buy or lease for a short term based on their budget, type of land, area of land, place

### **Tentative list of reports(Queries)**

For General Buyers [BUYER QUERIES]

- 1) List of properties [X BHK] for sale or rent in [City] **under budget** of [Budget]
- 2) List of properties **categorized** by their **status** (e.g., available, under contract, sold, off-market, etc.).
- 3) List of rental properties [X BHK] with **24/7 security services** in [City].
- 4) List of **top most** affordable properties[X BHK] on sale in [City].
- 5) List of properties[X BHK] available **for rent** without [Specific **Rental Restriction**] in [City].

- 6) List of **furnished** or **unfurnished** rental properties[X BHK] in [City].

#### For Organization Buyers [BUYER QUERIES]

- 1) Give the **average cost** of [This No. of Flats] available in [This City].
- 2) List of **top N number** of facilities available near the property in [This City].
- 3) List of properties[X BHK] with **proximity to specific company** and public transportation hubs in [City].
- 4) List of properties with **high foot traffic potential** in [City].

#### For Tenants

- 1) List of rental properties [X BHK] that allow pets and **late night entries**.
- 2) List of properties [X BHK] available on a **sharing basis** in [This City].
- 3) List of properties available with/without **gender restriction**.
- 4) List of properties [X BHK] with **specific amenities** (e.g., swimming pool, gym, parking) in [City].

#### For private/organization sellers

- 1) **Add** new properties ready for sale along with their details(eg type of property, avg price, area, date after which possession starts, RERA Id, launch date, amenities, total quantity of same/similar properties available for sale, place/locality).
- 2) **Update** property details
- 3) **Remove** properties that are sold
- 4) **View** properties that are similar so competitive prices can be determined

#### Admin Queries

- 1) **Delete** property info once the owner informs that it's sold.
- 2) If any user is reported as fraud more than three times , **block/delete** the user.

- 3) **View** all searches made by the users.
- 4) **Add/Remove** any user.
- 5) Delete all users that have been inactive for longer than a specified period