

Real Estate Agency Website

RealEstateHub :

RealEstateHub is a real estate management website that connects property buyers, renters, sellers, landlords, and agents.

Users can browse listings, schedule viewings, make offers, and manage transactions online. The platform streamlines the real estate process by enabling direct communication between users and agents, document sharing, and secure management of contracts and payments. It supports multiple user roles (Buyer, Renter, Seller, Landlord, Agent, Admin) and ensures smooth coordination of property listings, viewings, and offers through an intuitive interface.

User

A user represents any user of the RealEstateHub application and is defined by the following data:

- a user ID and username that should both be unique throughout the application,
- a password,
- a first name and a last name,
- an email address,
- role (Buyer | Renter | Seller | Landlord | Agent | Admin))
- a list of preferred locations,
- a list of saved listings.
- messages

A user can perform the following actions:

- search properties based on criteria like location, price, or type,
- display a list of available properties,
- save a listing,
- remove a saved listing,
- add a preferred location,
- remove a preferred location.
- send/receive messages
- Upload identity documents (KYC)
- Manage profile & preferences

Buyer

A buyer is a user who wants to purchase properties and is defined by the following additional data:

- property types of interest (e.g., apartment, house).

- desired locations
- budget
- documents

A buyer can perform the following actions:

- add/remove a property type of interest,
- find agents who manage properties matching their interests,
- Request/schedule property viewings
- Place/withdraw purchase offers
- Upload required documents
- Review/rate the agent post-transaction

Seller

A seller is a user who lists properties for sale and is defined by the following additional data:

- list of listed properties (owned properties)
- selling history,
- property ownership documents.
- listing preferences (min price, staging...)

A seller can perform the following actions:

- create/publish a property listing,
- edit/suspend/close a property listing,
- respond to viewing requests,
- receive & negotiate offers,
- upload property ownership documents,
- review/rate the agent post-transaction.
- sign sale agreement

Renter

A renter is a user who wants to rent properties and is defined by the following additional data:

- rental preferences (e.g., duration, budget),
- desired locations,
- documents (e.g., proof of income).

A renter can perform the following actions:

- add/remove a rental preference,
- find agents who manage rental properties matching their interests,
- request/schedule property viewings,
- submit rental applications,
- negotiate lease terms (duration, rent amount),
- upload required documents,

- review/rate the agent post-transaction.

Landlord

A landlord is a user who owns properties to rent and is defined by the following additional data:

- rental policies
- owned properties,
- rental history,
- property ownership documents,
- interested users

A landlord can perform the following actions:

- create/publish a rental listing,
- edit/suspend/close a rental listing,
- approve/reject rental applications,
- schedule/confirm/cancel viewings,
- generate & share lease agreements,
- Manage rent collection settings,
- request documents (proof of income, ID, etc.).

Property

A property represents a real estate listing (physical asset) that can be bought or rented. It is defined by the following data:

- title,
- propertyId
- ownerId
- description
- location (address),
- price (or rent amount),
- size (square meters),
- type (e.g., apartment, house, land),
- list of features (e.g., bedrooms, bathrooms),
- status (e.g., for sale, for rent, sold, rented).

A property can have the following actions performed on it:

- Attach/detach media & documents
- Update property details
- Compute derived stats (price per m², energy score label)

Listing

A listing represents a property available for sale or rent on the RealEstateHub application and is defined by the following data:

- listing ID (unique),
- title,
- description,
- location (address),
- price (or rent amount),
- size (square meters),
- type (e.g., apartment, house, land),
- list of features (e.g., bedrooms, bathrooms),
- status (e.g., active, pending, sold, rented),
- available from
- owner (Seller or Landlord),
- agent (if assigned),
- images.

A listing can have the following actions performed on it:

- publish (make available on the platform),
- edit (update details),
- suspend (temporarily remove from visibility),
- close (mark as sold or rented),
- add/remove images,
- request verification (by admin).

Viewing

A viewing represents a scheduled appointment to see a property and is defined by the following data:

- time slot,
- property,
- listing
- user (buyer/renter),
- agent/landlord.
- location
- status

A viewing can have the following actions performed on it:

- book
- cancel
- confirm
- reschedule
- Send reminders/notifications
- Attach feedback after visit

Inquiry/Conversation

Message thread related to a listing/property and is defined by the following data:

- user
- subject
- messages

An inquiry can have the following actions performed on it:

- send/receive messages
- Attach files (ID docs, floorplans)
- Mark as resolved

Offer/Application (purchase)

An offer/application represents a bid or rental request on a property and is defined by the following data:

- user (buyer/renter),
- property,
- offered price/rent amount,
- status (e.g., pending, accepted, rejected),
- terms (e.g., contingencies, lease duration).
- proposed closing date

An offer can have the following actions performed on it:

- Submit/withdraw offer
- Counter/accept/decline
- Generate sale agreement draft
- Track deadlines (contingency periods)

Review

- subject type (agent/properties)
- rating
- comments

A review can have the following actions performed on it:

- Submit/edit/delete review (with policy constraints)

User Interface

The user interface is where interactions between human users and the RealEstateHub application occur. Upon starting the application, users are presented with a main page where they can either log in or create an account as a Buyer, Renter, Seller, Landlord, Agent, or Admin.

After logging in, a Buyer or Renter will be presented with a page where they can search properties, manage saved listings, and schedule viewings. In the "Profile" section, they can update their details and upload documents.

Similarly, an Agent or Landlord will be presented with a page to manage listings, viewings, and applications, with a "Profile" section to update their details and ratings. An Admin will have a dashboard to manage users and listings.

User Story

As a Renter, I want to search for rental properties by location and budget so that I can find a place to live that fits my needs. I log in, go to the Browsing tab, enter my criteria, and view the results. I then save a listing of interest, schedule a viewing with the agent, and submit a rental application with my documents.

As a seller, I want to list my property for sale and manage offers from potential buyers .I create a listing with photos and a description, respond to viewing requests, and negotiate offers directly on the platform.

As a buyer, I want to look for properties that match my budget and preferred locations so that I can find a home that fits my needs.I log in, use filters like price and property type, save interesting listings, schedule a visit with the agent, and place an offer when I'm ready.

As a landlord, I want to manage my rental properties and tenants in one place. I post my rental listings, review applications, approve or decline tenants, and generate lease agreements.

As an agent, I want to organize my listings, viewings, and clients efficiently. I create and manage listings for my clients, confirm viewing requests, negotiate offers, and handle documents and contracts.