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Project Proposal

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1. Project Introduction

This is a real estate web platform where users can buy, sell, and bid on properties. It offers three types of property sections:

1. **General Marketplace** – Open listings where buyers and sellers deal at their own risk.
2. **Verified Properties** – Sellers upload ownership documents. Admin verifies and approves listings. These are safer and tracked.
3. **Bidding Section** – Properties listed with a starting price and deadline. Buyers place bids. Highest bidder wins after deadline.

The platform includes user roles (**Admin, Seller, Buyer**), guest access, chat system, and admin-controlled verification to reduce scams.

2. Stakeholders

- **Admin** – Manages users, listings, documents, and platform safety.
- **Seller** – Posts properties, uploads documents, and chats with buyers.
- **Buyer** – Searches, filters, bids, and chats with sellers.
- **Guest User** – Can view listings but cannot interact or post.
- **System** – Sends notifications, enforces, deadlines and ensures platform rules.

3. Functional Requirements

1. Admin

FR1.1: Admin should be able to register and log in securely.

FR1.2: Admin should be able to manage all user accounts and permissions.

FR1.3: Admin should be able to approve or reject property listings.

FR1.4: Admin should be able to verify ownership documents and assign a “Verified” badge.

FR1.5: Admin should be able to monitor bidding activity and finalize winners after deadlines.

FR1.6: Admin should be able to track and moderate chats between buyers and sellers.

FR1.7: Admin should be able to view reports, user activity, verification status, and system health.

2. Seller

FR2.1: Seller should be able to register and log in securely.

FR2.2: Seller should be able to add, edit, and delete property listings.

FR2.3: Seller should be able to upload images, videos, and ownership documents.

FR2.4: Seller should be able to post properties for bidding with a starting price and deadline.

FR2.5: Seller should be able to chat securely with buyers.

FR2.6: Seller should be able to receive notifications about bid updates, chat messages, and listing approvals.

FR2.7: Seller should be able to manage property listings, bids, and chats from their dashboard.

3. Buyer

FR3.1: Buyer should be able to register and log in securely.

FR3.2: Buyer should be able to search and filter listings by location, price, type, and verification status.

FR3.3: Buyer should be able to place bids on properties before the deadline.

FR3.4: Buyer should be able to chat securely with sellers.

FR3.5: Buyer should be able to receive notifications about bid updates, seller messages, and admin approvals.

4. Guest User

- **FR4.1:** Guest user should be able to browse property listings without registration or login.
- **FR4.2:** Guest user should not be able to place bids, chat, or post listings.

5. System Functional Requirements (SFR)

- **SFR5.1:** The system should be able to send notifications about listing approvals, bid updates, and chat messages.
- **SFR5.2:** The system should be able to automatically track bidding deadlines and close auctions at the end time.
- **SFR5.3:** The system should be able to ensure fair bidding by enforcing time synchronization.
- **SFR5.4:** The system should be able to securely store user data, documents, and chats.
- **SFR5.5:** The system should be able to provide real-time updates for chats and bidding activities.