

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	26-05-2025
Team ID	LTVIP2025TMID53011
Project Name	HouseHunt: Finding Your Perfect Rental Home
Maximum Marks	4 Marks

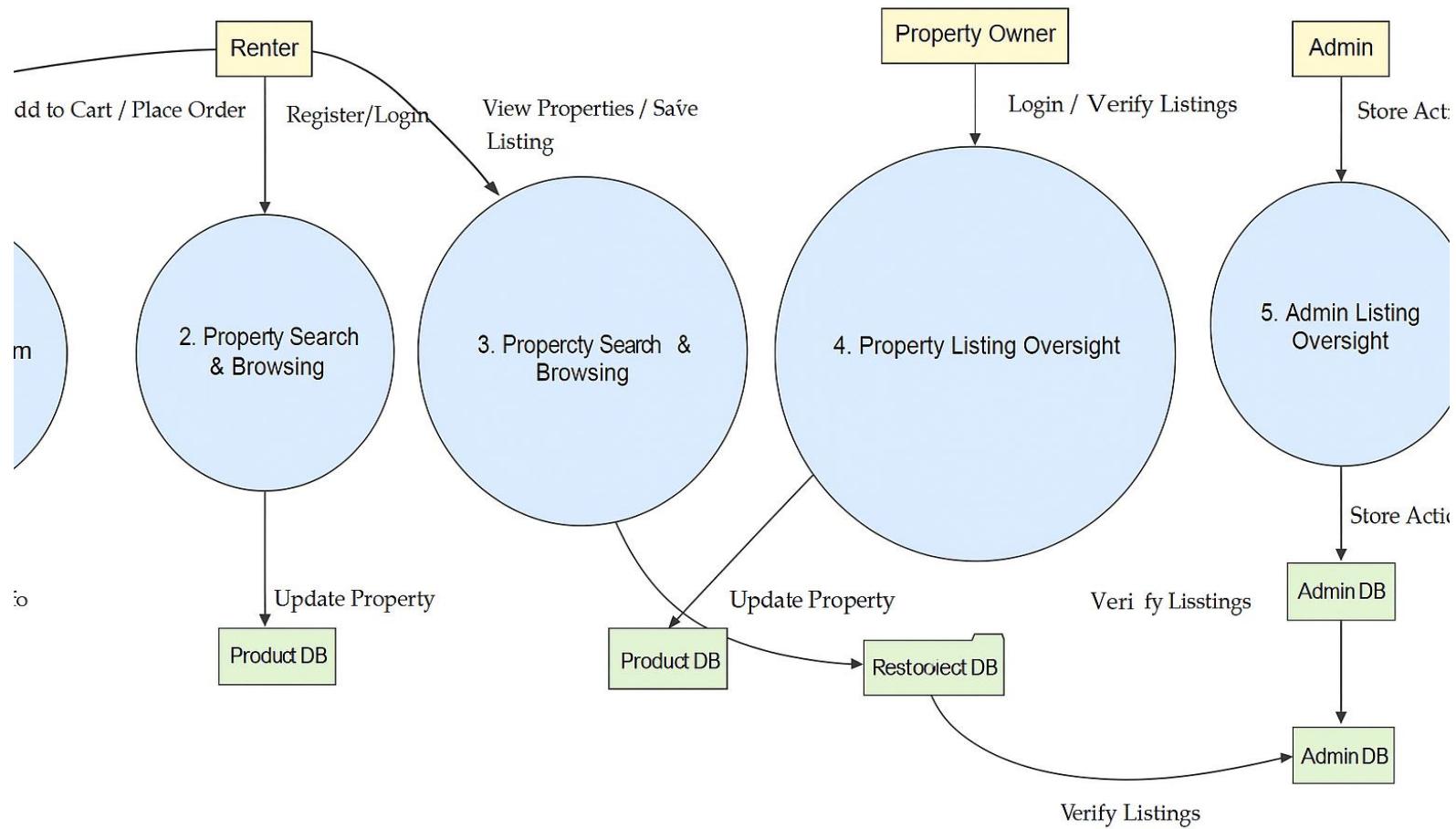
#### Data Flow Diagram (DFD) – HouseHunt

A Data Flow Diagram (DFD) for HouseHunt illustrates how different users—renters, property owners, and admins—interact with the system and how data moves across its core components. It provides a high-level overview of how information flows between user actions, system processes, and data storage.

#### Key Elements Covered in the DFD:

- **User Interactions:**
  - Renters can register/login, search properties, send booking inquiries, and manage saved listings.
  - Property owners can register/login, add or update property listings, and respond to inquiries.
  - Admins can log in, verify listings, manage user activity, and promote trusted properties.
- **Core Processes:**
  - **User Authentication:** Login and role-based access
  - **Property Search & Filter:** Querying listings based on user filters
  - **Booking & Inquiry System:** Sending and managing inquiry requests
  - **Listing Management:** CRUD operations on rental properties by owners
  - **Admin Controls:** Approving listings, managing user roles, and promoting listings
- **Data Stores:**
  - **Users Collection:** Stores renter, owner, and admin accounts
  - **Properties Collection:** Stores all property listings with details

- **Bookings Collection:** Stores inquiries, messages, and booking status



## User Stories

**User Story Table – Freelance Finder**

User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria	Priority	Release
Renter	User Authentication	As a renter, I can sign up and log in securely.	Account created and token issued on login.	High	Sprint-1
Renter	Property Browsing	As a renter, I can view categories and browse rental listings.	Properties shown with categories on homepage.	High	Sprint-1
Renter	Listing Viewing & Favorites	As a renter, I can view details and save listings to favorites.	Saved listings reflected in renter's dashboard.	High	Sprint-2
Renter	Booking Inquiry	As a renter, I can send inquiries to property owners.	Inquiry saved and visible to both renter and owner.	High	Sprint-2
Renter	Inquiry Tracking	As a renter, I can track responses to my inquiries.	Replies from owners shown in dashboard.	Medium	Sprint-2
Property Owner	Dashboard Login	As an owner, I can log in and access my dashboard.	Redirected to dashboard with property list.	High	Sprint-3
Property Owner	Property Management	As an owner, I can add/edit/delete rental properties.	Property data updates in database and reflects in listings.	High	Sprint-3
Property Owner	Inquiry Management	As an owner, I can view and respond to rental inquiries.	Responses sent and shown in renter dashboard.	Medium	Sprint-3
Admin	Admin Login	As an admin, I can log in and view all platform activity.	Admin dashboard loads with user and listing statistics.	High	Sprint-4
Admin	Promote Listing	As an admin, I can promote listings to appear on the homepage.	Promoted listings are shown in "Featured" section on frontend.	Medium	Sprint-4