

# Product Requirements Document

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# Names

## Suggested names

1. Be8flat
2. rentbridge.in
3. getrented.in
4. gogetrented.com
5. Staybrok.com
6. Rentzo.in-
7. RentVia.in
8. RentBrokerly.com
9. Zentrilla.com
10. Rentiva

# New PRD

## Assumptions

- **Timeline:** 4 weeks (1 month)
  - **Scope:** Broker-first MVP with lead management, basic AI assistance, and panoramic / virtual tours
  - **Team:** Ideally 2-3 developers + 1 product/UX working in parallel
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## Week 1 – Product, Architecture, and Core Skeleton

### Product & UX

- Lock final scope with **broker-first focus**:
  - Brokers as the primary entity
  - Properties discovered only through brokers
  - Controlled visibility (public / sneak-peek / private)
- Define end-to-end user journeys for:
  - Broker Admin
  - Broker Employees (manager, agent, viewer)
  - End users (renters/buyers)
- Create low-fidelity wireframes for:
  - Broker public profile page
  - Broker dashboard:
    - Employees
    - Properties
    - Leads
  - User broker discovery flow
  - Broker detail page with:
    - Public listings
    - Sneak-peek listings
  - Lead/contact creation flow
  - Property viewing (public and shared/private)
  - AI assistance entry point (broker side)
  - Panoramic / virtual tour viewer

# Architecture & Setup

- Choose tech stack:
  - **Frontend:** React / Next.js
  - **Backend:** Node.js (NestJS or similar)
  - **Database:** PostgreSQL
  - **Cache:** Redis
  - **Vector search:** pgvector (or equivalent)
  - **Storage:** Object storage for images and 360° media
- Set up:
  - Repositories and basic CI
  - Dev and staging environments
  - Authentication base (email + password, roles stubbed)
- Define initial data models & API contracts:
  - **Entities:**
    - User
    - Broker / Agency
    - Employee
    - Property
    - Property Privacy Level (Public / Sneak-Peek / Private)
    - Lead
    - Media (images, 360° tours)
    - Location
    - Activity Log
  - **APIs:**
    - Auth
    - Broker & employee management
    - Property CRUD
    - Lead creation
    - Broker public pages
    - Media upload & access

## Goal (Week 1):

Clear UX flows, finalized data models, API contracts defined, and frontend + backend skeletons running with auth stubbed or implemented.

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# Week 2 – Core Broker & User MVP

## Backend Implementation

- Implement models & migrations for:

- Users, brokers/agencies, employees
- Properties with privacy levels
- Leads with basic statuses
- Locations
- Implement core APIs:
  - Authentication (signup, login, session handling)
  - Broker creation and profile management
  - Employee invite, role assignment, and access control
  - Property lifecycle:
    - Draft → Pending Review → Published / Rejected
  - Lead creation and assignment to broker/employees
- Integrate geocoding:
  - Address → latitude/longitude during property creation
  - Store and index location data

## Frontend Implementation

- Broker dashboard:
  - Employee management (invite, role view)
  - Property creation and editing
  - Property approval workflow
  - Lead list (basic)
- User flows:
  - Browse brokers
  - Broker public profile page
  - View public and sneak-peek listings
  - Contact broker form
- Access control:
  - Anonymous browsing with limits
  - Signup wall after limit exceeded

### Goal (Week 2):

- Brokers can fully manage inventory and employees
  - Users can browse brokers and submit leads
  - Property approval and RBAC work end-to-end
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## Week 3 – AI Assistance & Panoramic / Virtual Tours

# AI Assistance (Broker-Focused)

- Implement embeddings + vector search over broker inventory
- Index:
  - Property title and description
  - Location text
  - Key attributes (rent, type, size, amenities)
- AI capabilities:
  - Match lead requirements to broker properties
  - Rank properties for a specific lead
- API:
  - **Input:** lead context or free-text query
  - **Output:** ranked list of broker properties

## Panoramic / Virtual Tours

- Define minimal v1 support:
  - 360° images and/or external virtual tour links
- Backend:
  - Media upload and association with properties
  - Storage and access control for tours
- Frontend:
  - Integrated 360° viewer on property pages
  - View available tours for public and shared properties

## Controlled Property Sharing

- Allow brokers to:
  - Share private properties with specific users
  - Track which leads can view which properties
- User can view shared properties only within the platform

### Goal (Week 3):

- Brokers can shortlist properties using AI
  - Users can view panoramic tours for shared properties
  - Private property sharing works securely
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# Week 4 – Hardening, Analytics, and Launch Prep

# UX & Polish

- Improve validation and error handling
- Add loading and empty states
- Responsive layouts for mobile and tablet
- Refine broker public pages:
  - Branding
  - Public inventory
  - Contact actions

# Security & RBAC

- Finalize permission enforcement for:
  - Broker Admin
  - Manager
  - Agent
  - Viewer
  - User
  - Platform Admin
- Security hardening:
  - Rate limiting
  - Input validation
  - Secure sessions and cookies

# Analytics

- Broker dashboard metrics:
  - Leads received
  - Properties shared
  - Property views per lead
- Platform admin metrics:
  - Active brokers
  - Total leads
  - Active properties
- Activity/event tracking:
  - Broker profile views
  - Property views
  - Lead creation
  - Property sharing actions

# Testing & Stabilization

- Unit tests for core services

- End-to-end tests:
  - Broker signup
  - Property approval
  - User contact flow
  - Private property sharing
- Manual QA across major devices and browsers

## Launch Readiness

- Seed demo brokers and sample properties
- Document:
  - Known limitations
  - Technical debt
  - Post-MVP roadmap
- Prepare deployment and rollback plans

### **Goal (Week 4):**

- Stable broker-first MVP
- All core workflows verified
- Ready for pilot users