

# ProperView – Real Estate Listing & Management Platform Coding Challenge

## Overview

You're building **ProperView**, a real estate listing and management platform used by agents to:

- Add and manage property listings
- Track inquiries from potential buyers
- View basic analytics on listing performance

This challenge is designed to assess your ability to design and implement a full stack application using modern technologies, for example React, Next.js, Node.js, and TypeScript. Your solution should emphasize clean architecture, maintainability, and a professional-grade developer experience.

Utilizing an AI powered IDE is optional but preferred.

## Requirements

### Agent Dashboard

- Login as a mock “agent” (no full auth system required, just simulate login)
- View all property listings created by the agent
- Create a new property listing with the following fields:
  - Title
  - Price
  - Address
  - Bedrooms
  - Bathrooms
  - Description
  - Status (`active`, `pending`, `sold`)
  - Edit or delete property listings

### Public Listings Page

- Visitors can browse publicly available ("active") listings
- Filter by:
  - Price range
  - Bedrooms
  - Location
  - View property details
  - Submit an inquiry

## Backend

### Endpoints:

- `GET /properties` – List all public properties
- `GET /agent/properties` – List all agent-owned properties
- `POST /properties` – Create new property
- `PUT /properties/:id` – Update property
- `DELETE /properties/:id` – Delete property
- `POST /inquiries` – Submit a buyer inquiry

### Database:

- Provide a seed script to populate 5–10 sample listings

## Submission Instructions

- Submit a GitHub repo link (preferred) or a ZIP file
- Ensure your README includes clear setup instructions
- Feel free to include a short note on what you'd improve with more time

## Interview followup

### You'll be invited to:

- Walk through your solution with our engineering team
- Discuss your approach, tradeoffs, and reasoning
- Potentially implement a small change live