

Full Property Eye Build Architecture

Section 1: Overview & Context

1.1 What is Property Eye

Property Eye is a fraud detection and commission recovery platform built specifically for real estate agencies.

It helps agencies **identify, track, and recover commissions** lost when clients or buyers bypass the agency after introductions have been made — for example, when a buyer introduced through an agent later completes a sale privately with the seller.

In essence, Property Eye acts as a **digital watchdog** — continuously monitoring, flagging, and reporting potential fraudulent or bypass transactions — empowering agencies to reclaim lost revenue and safeguard trust in their operations.

1.2 The Core Problem

Real estate agencies invest heavily in **lead generation, marketing, and client relationships**. However, many lose commissions due to:

- Clients going “**behind closed doors**” to close deals directly with sellers.
- Limited visibility into post-introduction buyer-seller activities.
- Manual and fragmented tracking systems (emails, spreadsheets, calls).
- Lack of a unified fraud detection or verification system.

These gaps lead to significant revenue leakage, operational inefficiencies, and poor accountability.

1.3 The Solution (How Property Eye Works)

Property Eye provides a **centralized and automated fraud monitoring system** that integrates with agency workflows and data points (e.g., property listings, introductions, transaction records, etc.) to detect suspicious matches and patterns.

At a high level:

1. **Agencies sign up** and connect their property and client data (e.g., listings, viewing logs, buyer profiles).
 2. **Property Eye monitors** buyer-seller interactions, patterns, and closed property transactions.
 3. **The system flags potential bypass activity**, such as:
 - A property listed as “withdrawn” later reappearing as “sold” but not by the same agency.
 - A buyer from the agency database matching a public transaction.
1. **Alerts are generated** in real time, appearing in dashboards and notifications.
 2. **Agencies can act** — review the alert, verify the case, and initiate recovery or legal steps.

The platform becomes both a **monitoring tool** and a **recovery support system** for lost commissions.

1.4 Target Users

There are three main user groups:

User Type	Description	Primary Needs
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Real Estate Agencies	Businesses listing and managing properties	Fraud detection, alert management, commission recovery data
Admin (Property Eye Team)	Internal platform operators and support team	User management, analytics, fraud case oversight, and reporting
Sandbox/Test Accounts	Developer and beta testing environment	Testing data flows, API integrations, and UI/UX improvements

1.5 Core Objectives

- Detect commission fraud efficiently through automation and data correlation.
- Recover lost earnings by providing structured evidence and visibility.
- Prevent future fraud via transparency and data-driven deterrents.
- Support agencies with a simple, clear interface that promotes trust and usability.

1.6 Design Intent

The platform's UI should communicate **trust, professionalism, and vigilance**.

Visual tone: clean, credible, and data-driven — similar to financial or cybersecurity dashboards.

Primary visual goals:

- Confidence & clarity → Blue/indigo base tones
- Transparency → White and neutral backgrounds
- Alert visibility → Controlled use of red/orange highlights
- Ease of navigation → Intuitive side menu and breadcrumb hierarchy

1.7 High-Level Flow

1. **Homepage** → Introduction and signup entry point.
2. **Signup/Login** → Secure user authentication.
3. **Agency Dashboard** → Displays fraud metrics, alerts, and analytics.
4. **Admin Dashboard** → Controls user management, system analytics, and overall performance.
5. **Case/Alert Detail Page** → Deep-dive into individual fraud alerts.
6. **Settings & Integrations** → Manage connected data sources and preferences.

1.8 Competitive Landscape (for UI/UX benchmarking)

Property Eye's design should borrow best practices from:

- **Zoopla / Rightmove** (for property presentation & trust visuals)
- **Stripe Dashboard** (for data clarity, metric summaries)
- **SaaS analytics dashboards like HubSpot or Datadog** (for clean layout, filters, and activity logs)

These references help ensure usability aligns with modern data platforms — informative, lightweight, and intuitive.

Section 2: User Roles & Permissions

Property Eye has three main user roles with clearly defined access boundaries and UI views:

Role	Description	Dashboard Access	Key Permissions
Admin (Property Eye Internal Team)	Full system control – manages all users, analytics, fraud monitoring, and reporting.	Admin Dashboard	Create, read, update, delete (CRUD) permissions across all modules.
Agency (Registered Real Estate Firm)	The core customer — can monitor potential fraud cases tied to their listed properties.	Agency Dashboard	Create and view agency-specific fraud alerts, view analytics, manage internal team accounts, configure notifications.
Sandbox User / Tester	Used for testing integrations, APIs, and mock data workflows.	Sandbox Dashboard	Limited access — can simulate fraud detection and data flow without impacting production.

2.1 Role Hierarchy Diagram (Conceptual Flow)



2.2 Role Access & Navigation Summary

Feature	Admin	Agency	Sandbox
User management	✓	✗	✗
Agency onboarding	✓	✗	✗
Fraud alerts (all)	✓	Partial (own only)	Mock

Fraud alerts (detailed)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (own only)	Mock
Analytics dashboard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (own data)	Mock
Activity logs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Property database access	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (own listings only)	Mock data only
Email/Alert configuration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sandbox testing tools	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pricing & billing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2.3 Dashboard Overview per Role

A. Admin Dashboard

The Admin Dashboard is the **control center** of Property Eye.

It gives the internal team a complete overview of the system, user activities, fraud reports, and metrics across all agencies.

Core Sections:

- **Overview Cards (Top Row)**

- Total number of agencies onboarded
- Total frauds detected
- Fraud cases detected this month (+% change)
- Active vs inactive agencies

- **Fraud Detection Table**

- Filters: Agency name, property ID, date range, alert status
- Columns: Fraud ID, Agency, Property, Alert Level, Status, Date Detected, Action
- Row click → opens Fraud Detail Page

- **User Management**

- Add/Edit/Delete agencies
- Reset credentials, deactivate accounts
- Role assignment (Admin, Agency Admin, Staff)

- **Analytics**

- Graphs showing fraud frequency by region, agency size, time of year
- Monthly comparison chart
- Export (PDF/CSV)

- **System Activity Logs**

- Tracks who did what and when (auditable trail)

- **Settings**

- API credentials, system integrations, and platform configurations

B. Agency Dashboard

The Agency Dashboard is the **agency's main control panel** – everything revolves around detecting, managing, and acting on

potential fraud cases.

Core Sections:

- **Dashboard Summary**

- Fraud cases detected this month
- Total alerts to date
- Properties under watch
- Commission recovered (optional future feature)

- **Fraud Alerts Feed**

- Dynamic list of flagged transactions
- Sort/filter by property, buyer name, alert date, alert severity
- Click → opens **Fraud Alert Detail Page**

- **Fraud Alert Detail Page**

- Overview: Property name, agency, buyer, date flagged
- Matching logic summary: why this was flagged (basic reason — abstracted logic)
- Evidence summary (data points triggering the flag)
- Action buttons: *Mark as reviewed, Dismiss, Flag for escalation*

- **Reports & Analytics**

- Visual graphs of detected frauds by property type, agent, month, etc.
- Export reports for internal documentation

- **Team Management**

- Add or remove agency staff (with limited roles)
- Assign permissions (view-only, full access)

- **Account & Billing**

- Subscription tier, billing history, renewals

- **Support / Help**

- Submit tickets or contact Property Eye support

C. Sandbox Dashboard

Used for **testing** and API verification — this is where developers, partners, or internal QA teams simulate real-world use cases.

Core Sections:

- **Overview**

- Mock agencies and test data stats
- Latest simulated fraud alerts

- **API Console**

- Test authentication
- Send sample POST/GET requests
- View real-time response logs

- **Mock Fraud Simulation**

- Input fake data to generate a mock fraud alert
- Visualize detection response

- **Documentation**

- API reference
- Webhooks, callback URLs

2.4 Mobile Responsiveness

- **Navigation:** Collapsible side menu, sticky top bar with quick filters.
- **Data Tables:** Collapse into cards for smaller screens (show summary; expand for full details).
- **Charts:** Stacked vertically, swipe-enabled on mobile.
- **Floating Action Buttons (FAB):** For “Add”, “Export”, “Filter”, etc. on smaller devices.
- **Dashboard Cards:** Single-column scroll layout for mobile; 3-column grid for desktop.

Section 3: Page Architecture & Navigation Flow

Property Eye is structured into two environments:

1. **Public Site (Marketing & Conversion)** — for discovery, education, and sign-up.
2. **Platform (Secure App Environment)** — for active users (Admin, Agencies, Sandbox).

The navigation must clearly separate these environments while keeping branding consistent.

3.1 PUBLIC WEBSITE STRUCTURE

Core Pages

1. **Homepage**
2. **About Us**
3. **Pricing**
4. **Contact Us**
5. **Login / Sign Up**

1 Homepage

Purpose:

To introduce Property Eye’s value proposition and convert visitors into users or leads.

Sections & Wireframe Guidance:

1. Hero Section (Top Fold)

- Headline: “Recover Lost Commissions with Intelligent Fraud Detection.”
- Subtext: One-line summary (“Property Eye helps estate agencies detect and prevent commission fraud when clients close deals behind the scenes.”)
- CTA Buttons: “Request Demo” | “Get Started”
- Background: Subtle real estate visual (abstract property grid, blue overlay).

1. How It Works

- 3-Step Graphic Layout (Icons + Text):
 - Step 1: Connect your listings.
 - Step 2: We monitor and flag suspicious transactions.

- Step 3: You recover your commissions.

1. Key Features Grid

- Fraud Detection Intelligence
- Real-time Alerts
- Agency Analytics
- Secure API Integration

1. Case Study / Testimonials Section

- Quotes from early adopters
- Agency logos

1. Call to Action Banner (Bottom)

- “Join top agencies already protecting their commissions.”
- CTA Button: “Create Account”

1. Footer

- Quick links: About, Pricing, Privacy Policy, Terms of Use, Contact

Color Guidance:

- Hero background: Deep blue (#0B1D3A) overlay with white headline text.
- Accent CTA: Vibrant teal (#00C6AE).
- Text: Neutral gray (#4A4A4A) for body, white for hero section.

Mobile Layout:

- Stack sections vertically.
- CTA always visible (sticky bottom button).

2 About Us

Purpose:

Build credibility – explain mission, vision, and leadership behind Property Eye.

Sections:

- “Our Mission” paragraph
- “Why Property Eye Exists” story (commission loss problem)
- “Our Team” (portraits & titles)
- “Our Technology” (light, high-level overview)
- “Contact / Join Us” CTA

Design Notes:

- Clean, human-centric imagery (agency offices, professionals).
- Use secondary color (warm gray background) for contrast.

3 Pricing

Purpose:

Show subscription tiers clearly with transparent feature comparison.

Sections:

- “Choose Your Plan” headline
- Three-column pricing cards:

- Starter (For small agencies)
- Professional (For mid-sized agencies)
- Enterprise (Custom)
- Highlight “Most Popular” tier visually.
- Include link: “View full feature comparison →” (optional modal).

Colors:

- Light background, teal accent buttons, hover state in navy.
-

4 Contact Us

Purpose:

Capture inbound leads or support requests.

Sections:

- Quick intro text (“We’re here to help.”)
- Contact form (Name, Email, Message, Dropdown: Sales/Support/Press)
- Map (optional, company HQ)
- Support email & phone in footer.

UX Notes:

- Instant validation messages.
 - Link: “*Prefer to chat? Visit our Help Center.*”
-

5 Login / Sign Up

Purpose:

Authentication gateway to the Property Eye platform.

Layout:

- Split-screen view: Left side (illustration / tagline), Right side (form).
- Fields:
 - Email, Password, “Forgot Password?”
 - “Create account” link below.

Colors:

- White background, blue accent buttons, teal hover.
-

3.2 PLATFORM (SECURE APP) STRUCTURE

Once logged in, users are redirected to role-based dashboards:

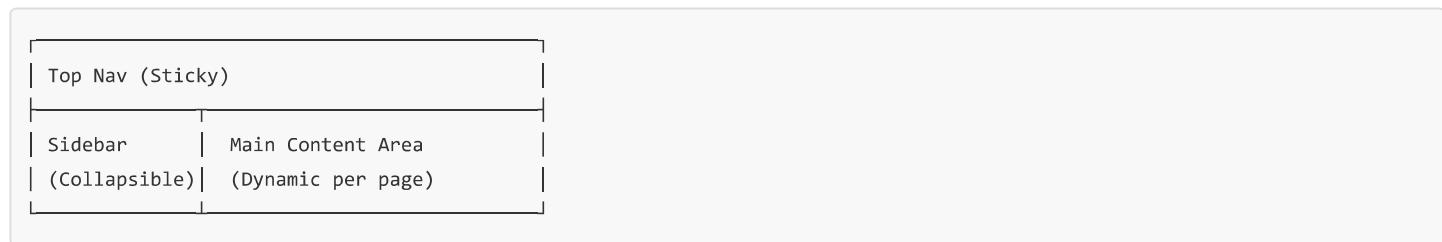
Role	Redirect To	Layout
Admin	/admin/dashboard	Full analytics & management controls
Agency	/agency/dashboard	Fraud monitoring, analytics, reports
Sandbox	/sandbox/dashboard	Mock data, API testing tools

Shared Layout Framework (App Shell)

All dashboards share:

- **Top Navigation Bar:**
 - Left: Logo + Breadcrumb trail
 - Right: Profile avatar, notifications bell, settings dropdown
- **Sidebar Navigation (Collapsible):**
 - Dashboard
 - Fraud Alerts
 - Analytics
 - Reports
 - Team / User Management
 - Billing (for agency)
 - Settings
 - Logout

Wireframe Guidance:



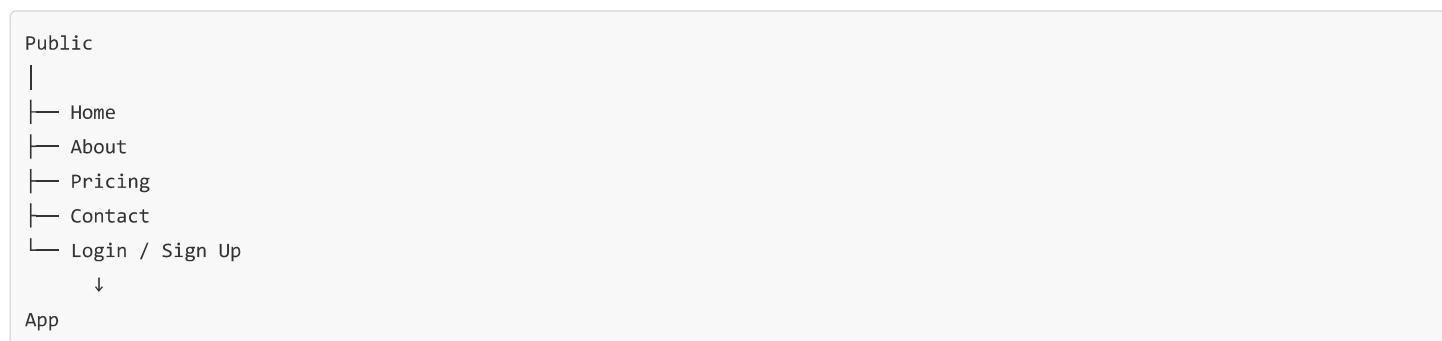
Dashboard Page Flow (Example for Agency)

1. `/dashboard` → Overview cards + fraud summary chart.
2. Click **Fraud Alert Card** → `/fraud-alerts` list view.
3. Click a record → `/fraud-alerts/{id}` → Fraud detail page.
4. From detail page → “Escalate” or “View Property” → `/properties/{id}`.
5. Navigation breadcrumbs allow backtracking.

Cross-Link Examples

- From Fraud Alert Detail → “Related Analytics” → opens filtered analytics view.
- From Analytics graph → click region bar → opens filtered Fraud Alerts list.
- From User Management → click agency name → open profile in modal or new page.

3.3 Navigation Summary Diagram



```
|  
|   └── Admin Dashboard  
|       ├── Users  
|       ├── Fraud Alerts  
|       ├── Analytics  
|       ├── Reports  
|       └── Settings  
|  
|   └── Agency Dashboard  
|       ├── Fraud Alerts  
|       ├── Analytics  
|       ├── Reports  
|       ├── Team Management  
|       ├── Billing  
|       └── Settings  
|  
└── Sandbox Dashboard  
    ├── API Console  
    ├── Mock Data  
    └── Documentation
```

3.4 Mobile Layout Guidelines

- **Navigation drawer** slides from the left (for sidebar).
- **Dashboard cards** stack vertically.
- **Charts** convert to scrollable horizontal cards.
- **Tables** display compact cards (tap to expand).
- **Breadcrumbs** replaced with a dropdown “Back / Home / Section.”

Section 4: Page-by-Page Wireframe & Content Breakdown

4.1 PUBLIC WEBSITE

1 Homepage

Objective

Communicate the brand's value proposition clearly, build trust, and drive users to sign up or request a demo.

Structure & Wireframe

```
| HERO SECTION  
| [Logo] [Navigation] [Login | Sign Up]  
| Headline: "Recover Lost Commissions Fast"  
| Subtext: "We detect off-market deals..."  
| CTA: [Get Started] [Request Demo]  
| Background: gradient overlay on property
```

FEATURES OVERVIEW

- [Icon] Detect Hidden Transactions
- [Icon] Track Client Activity
- [Icon] Analyze Fraud Patterns
- [Icon] Protect Your Agency Revenue

HOW IT WORKS

- Step 1: Connect Your CRM
- Step 2: Monitor Listings
- Step 3: Identify Suspicious Sales

TESTIMONIALS / TRUST SECTION

"Property Eye helped us recover £12,000 in lost fees."

[Agency Logo Carousel]

CTA BANNER

Join 100+ agencies already using Property Eye

[Create Account] [Contact Sales]

Design Guidance

- **Primary color:** Deep navy (#0B1D3A)
- **Accent color:** Teal (#00C6AE)
- **Supporting:** Soft gray backgrounds (#F8FAFB)
- **Fonts:** Sans-serif (e.g. Inter or Manrope) for modern clarity
- **Imagery:** Real-world properties, agents collaborating
- **CTA Buttons:** Consistent pill shape, teal primary, navy secondary

Mobile Layout

- Stack hero vertically
- Sticky bottom CTA ("Get Started")
- Swipeable feature cards

2 About Us

Objective

Build trust and humanize the brand.

Structure

HERO: "Who We Are"
Mission: "We exist to protect estate agents from commission fraud."
Story Section: "It started with one agency losing £40,000..."
Team Grid: Photos, names, short bios
Tech Highlight: Infographic showing how Property Eye works
CTA: "Join us in redefining real estate transparency."

Design Guidance

- Light layout, plenty of white space

- Warm accent photography
 - Color accent: Pale teal background block under the mission statement
 - Use subtle animation (fade-in team cards on scroll)
-

3 Pricing

Objective

Convert interest into sign-ups.

Structure

Header: "Simple pricing for every agency"

Subtext: "No hidden fees. Cancel anytime."

3 Pricing Cards:

[Starter] £49/mo – For small teams

[Pro] £99/mo – Most Popular

[Enterprise] Custom quote

Feature Comparison Table

FAQ Accordion

Bottom CTA: "Still unsure? Book a quick demo."

Design Guidance

- Highlight Pro with a teal border
 - Show monthly/yearly toggle
 - Use card shadows to separate tiers visually
 - On mobile: Cards in vertical scroll carousel
-

4 Contact Us

Structure

Header: "We'd love to hear from you."

Form: Name, Email, Message, Dropdown (Sales/Support/Other)

Left column: Contact info, email, phone, map

Design Guidance

- Two-column layout desktop → stacked on mobile
 - Submit button: teal background, success checkmark animation
-

5 Login / Sign Up

Structure

- Split screen: Left – tagline & illustration, Right – form
- Login form: email, password, forgot password
- Sign-up form: full name, agency name, email, password, confirm password
- Footer links: Terms, Privacy

Design Guidance

- Minimal, professional aesthetic
- Use subtle input animations
- Maintain visible logo top-left for brand continuity

4.2 PLATFORM DASHBOARD ENVIRONMENT

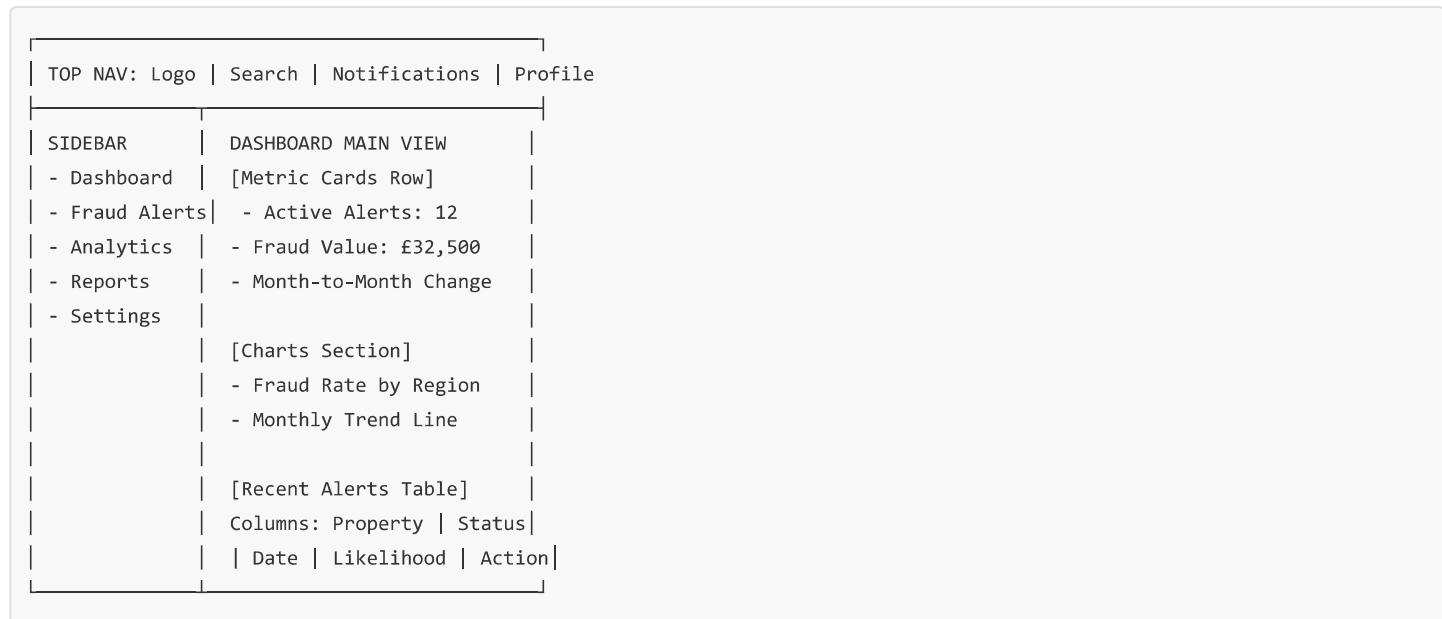
After login, users enter the web app environment.

1 Dashboard (Agency User)

Objective

Give a quick overview of agency performance and fraud detection metrics.

Layout & Wireframe



Design Guidance

- Use 3–4 summary cards at top.
- Fraud Alerts Table clickable → leads to [/fraud-alerts/{id}](#).
- Filters (top-right): Date Range, Fraud Likelihood, Status.
- Color hints for fraud likelihood:
 - High → Red (#E63946)
 - Medium → Amber (#F4A261)
 - Low → Green (#2A9D8F)

Mobile

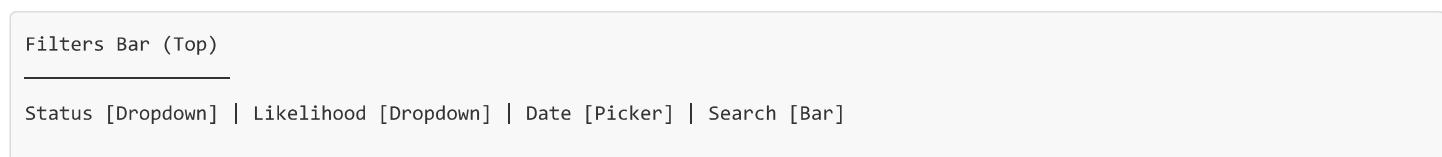
- Cards stack vertically.
- Table becomes scrollable list of expandable tiles.

2 Fraud Alerts Page

Objective

Allow detailed review and action on potential fraudulent listings.

Layout



Alerts Table

Property Address | Client | Fraud Score | Date | Status | Action [View →]

Detail Modal (On Click)

Property details

Fraud likelihood meter

Linked client history

“Mark as Resolved” | “Escalate” | “Add Note”

Design Guidance

- Table rows color-coded by fraud risk.
- Detail modal slides in from right on desktop; full-page overlay on mobile.

3 Analytics Page

Objective

Provide deeper insight into fraud trends across clients, properties, and time.

Layout

- Top filters: Date range, Property Type, Region.
- Charts grid:
 - Line: Fraud trend over time.
 - Bar: Top regions by fraud activity.
 - Pie: Fraud likelihood distribution.
 - Map (optional): Visualize activity density.
- Export as PDF/CSV.

Mobile

Charts stack, filter bar collapses into a dropdown panel.

4 Reports Page

Objective

Centralized place for generated reports.

Layout

- Table: Report name | Created date | Type | Download | Regenerate
- Button: “Generate New Report”
- Modal: Select timeframe and parameters.

5 Team Management (Agency Only)

Layout

- Table of users (Name | Role | Status)
- Buttons: Add Member | Change Role | Suspend
- Roles: Admin, Analyst, Viewer.

6 Settings / Billing

Tabs

- Profile Settings
 - API Integration (view AgencyRef key)
 - Billing & Invoices
 - Notification Preferences
-

7 Admin Dashboard (Super Admin Only)

Overview

- Global stats cards (Total Agencies, Total Alerts, Active vs Inactive)
- Charts showing platform usage, top agencies by fraud detection.
- Deep filters (time period, region, agency size).

Subpages

- User Management (CRUD on all accounts)
 - Fraud Logs (global history)
 - Analytics (platform-level insights)
 - Reports & Audit Logs
-

8 Sandbox Dashboard

Purpose

Test environment for integration and QA.

Layout

- API Console Panel (input request, view JSON response)
 - Mock Data Table (Sample Listings)
 - Documentation Links (API Reference, Webhook Examples)
 - “Reset Sandbox” button.
-

Navigation Flow Summary

- Top bar persists globally across dashboard.
- Sidebar collapsible (icons only on compact view).
- Breadcrumbs: “Dashboard / Fraud Alerts / [Property Name]”
- Contextual CTAs (e.g. “Export”, “Mark Resolved”) appear top-right per page.

Section 5: Visual Design System

5.1 Brand Identity Overview

Brand Essence:

Trust, Intelligence, Transparency.

Property Eye embodies a professional and data-driven personality. It's built to protect real estate agencies from fraud, so the design language must reflect **authority, clarity, and reliability**, while also being **modern and digital-first**.

5.2 Color Palette

Purpose	Color	Hex	Usage
Primary (Brand)	Deep Navy	#0B1D3A	Header backgrounds, text emphasis, primary navigation
Accent	Teal	#00C6AE	CTAs, links, icons, highlights
Secondary	Slate Gray	#465366	Body text, muted labels
Background Light	Soft Gray	#F8FAFB	Page backgrounds
Card Background	White	FFFFFF	Containers, components
Warning / Alert	Amber	#F4A261	Caution messages, mid-level fraud
Error / High Risk	Red	#E63946	Fraud detection high-risk visuals
Success / Low Risk	Green	#2A9D8F	Successful actions, resolved statuses
Info / Neutral	Blue Gray	#607D8B	Tooltips, informational badges

Color Use Hierarchy

- Navy anchors trust; should be the dominant background for header and navigation.
- Teal is action-driven — reserved for all key CTAs.
- Use white and soft gray for space and contrast.
- Risk colors (red, amber, green) appear **only in analytics or alerts**.

Accessibility

- Minimum contrast ratio: 4.5:1 for text.
 - Button text and icons always appear in white over teal or navy.
 - Hover and focus states must maintain visible contrast difference.
-

5.3 Typography

Type	Font	Weight	Use
------	------	--------	-----

Heading	Inter	700	Titles, Dashboard cards
Subheading	Inter	600	Section headers
Body Text	Inter	400	General content
Labels / UI Text	Inter	500	Buttons, table headers

Font Sizes (Desktop First)

- H1: 32px
- H2: 24px
- H3: 20px
- Body: 16px
- Caption / Label: 14px

Mobile Scaling

- H1: 24px
- H2: 20px
- Body: 15px
- Label: 13px

Line Height

- 1.5x body text height for readability.
 - Use consistent padding above and below headings (16px minimum).
-

5.4 Iconography

- **Style:** Outline + Filled hybrid (consistent with Lucide or Feather icons).
- **Primary color:** Teal or Navy (depending on background).
- **Functional meaning:**
 - Fraud / Detection → Magnifying glass or eye symbol.
 - Agency → Building or briefcase.
 - Analytics → Bar chart or graph.
 - Alerts → Triangle warning icon.
 - Settings → Gear icon.
 - Users → Profile outline.

Icon Size Guide

- 24px base for interactive icons.
 - 16px for inline labels (tables, dropdowns).
 - Maintain uniform stroke weight across all icons.
-

5.5 Buttons

Variant	Background	Text	Border	Usage
---------	------------	------	--------	-------

Primary	Teal	White	None	Main CTAs (Sign Up, Save, Submit)
Secondary	Transparent	Teal	1px Teal	Secondary actions (Cancel, Learn More)
Destructive	Red	White	None	Deletion or irreversible actions
Disabled	Soft Gray	#A0A0A0	None	Inactive state

States

- Hover → Slight darken (-5% brightness).
- Active → Slight shadow inset for depth.
- Focus → Teal border glow (outline: 2px solid #00C6AE).

Shape

- Rounded corners (border-radius: 8px).
 - Padding: 12px 24px desktop, 10px 16px mobile.
-

5.6 Cards & Containers

General Card Style

- Background: White
- Border-radius: 12px
- Shadow: 0 2px 8px rgba(0,0,0,0.05)
- Padding: 20px
- Header text weight: 600
- Optional icon on left/top

Metric Cards (Dashboard Overview)

Example:

```
Fraud Alerts Detected
32 ↑ 12% this month
```

- Title: Gray text (14px)
 - Value: Bold (28px)
 - Trend: Green/Red indicator
 - Clickable → leads to detail view
 - Hover: Lift shadow effect
-

5.7 Tables

- Header background: Soft gray (#F8FAFB)
- Row hover: Subtle tint (#F1F5F9)

- **Font size:** 14px
- **Row height:** 56px
- **Border:** `1px solid #EAEAEA`
- **Clickable row:** Cursor pointer, highlight on hover.

Fraud Status Tag Styles

Status	Background	Text
High Risk	#FFE5E5	#E63946
Medium	#FFF3E0	#F4A261
Low	#E6F4F1	#2A9D8F
Resolved	#E8F5E9	#2E7D32

5.8 Modals & Panels

- Rounded corners (16px)
- Overlay: semi-transparent navy (`rgba(11, 29, 58, 0.4)`)
- Slide-in from right for detail panels (fraud details)
- Close button: top-right, teal hover
- Support scroll for mobile and long content

5.9 Forms & Inputs

Element	Style
Input Fields	White background, teal border on focus
Labels	14px, gray
Placeholders	#9E9E9E
Checkbox / Toggle	Teal when active
Error Message	Red, appears under field
Success State	Green border flash
Button alignment	Right-justified, consistent bottom margin

5.10 Data Visualization (Charts)

Library Suggestion: Recharts or Chart.js

Chart Colors

- Fraud Rate → Red gradient
- Detection Trend → Teal line
- Region Comparison → Navy + Gray tones
- Pie Segments → Red, Amber, Teal

Design Guidance

- Use light gray grid lines.
- Smooth curves (no harsh lines).
- Labels should use short formats ("12.5k" instead of "12,500").

5.11 Layout Grid & Spacing

View	Columns	Gutter	Margin
Desktop	12	24px	40px
Tablet	8	20px	24px
Mobile	4	16px	16px

Spacing System

- Base unit: 8px
- Small = 8px, Medium = 16px, Large = 24px, XL = 40px
- Maintain consistent vertical rhythm across all pages.

5.12 Responsive Behavior

Component	Mobile Behavior
Navbar	Collapses to hamburger menu
Sidebar	Becomes bottom nav drawer
Tables	Convert to collapsible lists
Charts	Stack vertically
Metric cards	Single-column grid
Modals	Expand full-screen overlay

5.13 Microinteractions

- Button hover → subtle lift (translateY(-2px))

- Page load → fade in sections
 - Alert detection event (in-app) → small teal pulse animation
 - Toast notifications: top-right, auto-dismiss 4s, color-coded
-

5.14 Accessibility & UX

- All interactive components must have visible focus states.
- Tab order must follow logical visual hierarchy.
- ARIA labels for icons.
- Avoid text embedded in images.
- Animations < 200ms for snappy feedback.

Section 6: Dashboard Information Architecture & Interaction Flow

6.1 Dashboard Overview

Property Eye has **three core dashboard environments**, each tailored to specific user roles:

1. **Admin Dashboard** – Used by Property Eye administrators to oversee all activity, manage agencies, track fraud analytics, and handle system configuration.
2. **Estate Agency Dashboard** – Used by registered real estate agencies to monitor their own listings, fraud detection alerts, and case resolutions.
3. **Sandbox Dashboard** – A testing environment where developers or partner integrations can simulate fraud detection workflows before production rollout.

Each dashboard inherits a **shared design structure** (navigation, layout grid, typography) but has **role-specific features and data visibility**.

6.2 Shared Layout Structure

Section	Placement	Description
Header Bar	Top-fixed	Contains logo, search bar, notification bell, user profile dropdown
Sidebar Navigation	Left (collapsible)	Houses all main navigation links, icons + labels
Main Content Area	Center	Dynamic area where dashboard content loads based on navigation
Utility Panel (optional)	Right slide-in	Appears when viewing fraud

		details, agency profiles, or analytics breakdown
Footer	Minimal, global policies & version info	

Wireframe Guidance

[Header Bar: Search + Notifications + Profile]

[Sidebar Nav] | [Main Content] | [Slide-in Details]

Responsive Behavior

- On mobile, sidebar collapses into a bottom tab navigation.
- Header condenses into a top bar with hamburger menu.
- Slide-in panels become full-screen overlays.

6.3 Admin Dashboard

Primary Purpose: Centralized oversight of the entire Property Eye system.

Navigation Menu Items

1. Overview
2. Agencies
3. Fraud Detections
4. Analytics
5. User Management
6. Notifications / Reports
7. System Settings

6.3.1 Overview (Home)

Purpose: Summarize system health and activity.

Sections:

- Metrics Cards (Top Row)
 - Total registered agencies (clickable → Agencies page)
 - Total frauds detected (clickable → Fraud Detections)
 - Fraud detections this month (+/- % from last month)
 - Average fraud resolution time
 - Revenue recovered (if applicable)
- Charts Section (Mid Row)
 - Monthly fraud detection trend (line graph)
 - Top 5 agencies by fraud cases (bar chart)
 - Regional fraud heatmap (interactive map view)
- Recent Activity Feed (Bottom Row)
 - Latest detections, alerts sent, case updates, or agency signups.

Navigation Flow:

- Clicking a metric card → opens filtered view of related data (e.g. all frauds in that month).
 - Hovering on charts shows tooltips with agency or region names.
-

6.3.2 Agencies Page

Purpose: Manage all estate agencies and monitor their status.

Sections:

- **Agencies Table View**
| Agency Name | Registration Date | Subscription Status | Fraud Cases | Active Listings | Last Activity |
- Search and filter options (by region, date, activity level)
- Quick action buttons:
 - “View Details” → opens slide-in agency profile
 - “Suspend Account” → admin confirmation modal
 - “Message Agency” → opens chat or email dialog

Agency Detail Panel:

- Basic info (logo, name, contact person)
 - Subscription details (plan, expiry)
 - Fraud history summary
 - Integration status (active/inactive)
 - Button: “View in Analytics” → jump to filtered analytics page
-

6.3.3 Fraud Detections Page

Purpose: System-wide view of all fraud cases detected.

Sections:

- **Filters:**
 - Date range, Agency, Fraud Type, Status (Open/Resolved), Severity (High/Med/Low)
- **Table:**
| Case ID | Agency | Property | Date Detected | Severity | Status | Alert Sent |
- **Detail View Panel (on click):**
 - Fraud summary
 - Property details (image, address, valuation)
 - Matched client information (partially masked for privacy)
 - Timestamps (detected, notified, resolved)
 - Timeline of events
 - Admin actions: Resolve / Escalate / Comment

Navigation Flow:

- Clicking a case opens a right slide-in detail panel.
 - “Escalate” opens modal to assign to internal fraud team.
 - “Resolve” changes case status with confirmation.
-

6.3.4 Analytics Page

Purpose: Deep visual insight into fraud patterns.

Sections:

- Overview Filters (Agency, Region, Date)
- Fraud Trend Charts (Line)
- Recovery Value Chart (Bar)
- Top Agencies by Detection Rate
- Geo Heatmap for fraud frequency

Interactions:

- Hover to reveal tooltips.
 - Click chart elements → deep-link to case tables.
 - Export data → CSV / PDF.
-

6.3.5 User Management

Purpose: Manage internal users and agency logins.

Column	Description
Name	User full name
Role	Admin / Analyst / Support
Status	Active / Inactive
Last Login	Timestamp
Actions	Edit / Suspend / Delete

- Add New User modal → role-based access configuration
 - Role Matrix: determines which dashboard sections are visible
-

6.3.6 System Settings

Purpose: Manage platform-level configurations.

- API Integrations (Alto, Reapit, etc.)
 - Subscription plan rules
 - Email/notification templates
 - Security (2FA, password reset policies)
 - System logs and audit trail
-

6.4 Estate Agency Dashboard

Primary Purpose: Help agencies monitor their own portfolio and fraud detection results.

Navigation Menu Items

1. Overview
2. Properties
3. Detections
4. Analytics
5. Notifications

6.  Billing

7.  Account Settings

6.4.1 Overview (Home)

Sections:

- Metrics:
 - Active listings
 - Fraud alerts this month
 - Resolved vs unresolved cases
 - Recovery success rate
- Fraud Trend Chart (30-day window)
- “Recent Detections” table preview (Top 5)
- Shortcut: “Report Unresolved Case” button

Navigation Flow:

- Clicking on fraud preview → opens full detail in Detections page.
 - Chart click → filters by property or time window.
-

6.4.2 Properties

- Table: | Property | Address | Status | Date Listed | Fraud Alerts |
- Button: “View Property” → full details (property page)
- Property detail includes:
 - Description, price, agent
 - Linked detections (if any)
 - Integration status (API sync health)

6.4.3 Detections

Purpose: Agency-specific fraud monitoring.

- Filters: Status, Severity, Date
- Table similar to admin but scoped to agency's data only
- Fraud detail panel includes:
 - Matched buyer/seller (masked)
 - Evidence link (PDF, screenshots)
 - Resolution notes
 - Communication log with admin

6.4.4 Analytics

Purpose: Self-performance tracking.

- Detections over time
- Revenue recovered
- Response time metrics
- Property performance comparison

6.4.5 Billing

- Subscription status and plan info
 - Payment history
 - Download invoices
 - Upgrade/downgrade plan
-

6.4.6 Notifications

- System alerts (fraud cases, payment updates)
 - Admin communication
 - Filter by type (fraud, account, billing)
-

6.4.7 Account Settings

- Agency profile
 - Team members management
 - API credentials (regenerated manually)
 - Integration guide links
-

6.5 Sandbox Dashboard

Purpose: Safe testing environment for API and fraud workflows.

Sections:

- API Credential Generator (Client ID, Secret)
 - Dummy property listings
 - Mock fraud detection results
 - Reset sandbox data button
 - Log viewer for API request/response
-

6.6 Cross-Dashboard Navigation Flow

From	To	Action
Admin → Agency Details	Click agency name in table	
Admin → Fraud Detail	Click case ID	
Agency → Fraud Detail	Click alert row	
Sandbox → API Docs	Click “View API Documentation”	
Any → Notifications	Header bell icon	
Any → Profile Settings	Header user icon	

6.7 Interaction Flow Example: Fraud Detection Lifecycle

1. Detection Event → system flags property with potential fraudulent match

2. Alert Generated → visible in Admin + Agency dashboards
3. Admin Review → views evidence, verifies alert
4. Agency Notified → sees alert in dashboard + email
5. Resolution Logged → agency responds / admin marks resolved
6. Analytics Updated → dashboards reflect changes in fraud rate and recovery metrics

Section 7: Component Wireframe Guidance

This section provides **page-by-page wireframe direction**, component breakdowns, and **mobile responsiveness notes**, ensuring visual consistency and user flow cohesion across the entire Property Eye platform.

7.1 General Design Principles

Grid System

- **Desktop:** 12-column grid (1140px container width)
- **Tablet:** 8-column grid
- **Mobile:** 4-column grid
- **Spacing:** 24px gutters, 16px card padding, 32px section spacing

Visual Hierarchy

- Primary actions → bold accent buttons (e.g., “Resolve Fraud”, “Add Agency”)
- Secondary actions → outline or subtle gradient buttons
- Cards use shadows and color intensity to show importance level

Typography

- Header: Inter / Poppins Bold
- Body: Inter Regular
- Numeric Data: Roboto Mono (for analytics consistency)
- Line height: 1.4–1.6

UI Components (Core Library)

- Cards (metric, data, and chart)
- Tables (sortable, filterable)
- Tabs (for detail sub-sections)
- Slide-in Detail Panels
- Modals (confirmation, form entry)
- Notifications Drawer
- Chart components (line, bar, donut, heatmap)
- Toast alerts (for confirmations & updates)

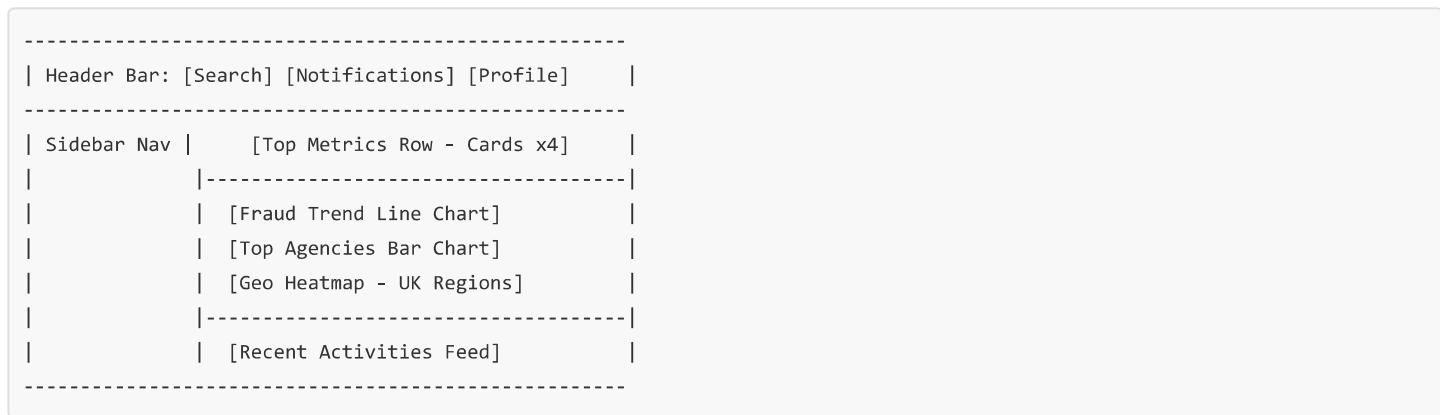
7.2 Admin Dashboard Wireframes

7.2.1 Overview Page

Page Objective:

Summarize platform-wide performance and key fraud statistics at a glance.

Desktop Layout Structure:



Components:

- **Metric Cards (4-up grid):**
 - "Total Agencies", "Frauds Detected", "This Month's Fraud Increase (%)", "Avg. Resolution Time"
 - Icons for each, trend arrows (▲▼)
 - Click opens filtered subpage view
- **Fraud Trend Chart:**
 - Time series of detections/month
 - Hover tooltip: count + percentage change
- **Top Agencies Chart:**
 - Horizontal bars → Top 5 agencies by fraud frequency
- **Geo Heatmap:**
 - Color-coded UK map showing fraud density
- **Recent Activities Feed:**
 - Scrollable list (case detection, agency added, etc.)

Mobile Layout:

- Collapsible sidebar → bottom nav (icons only)
- Cards → single column scroll
- Charts → stacked vertically
- Feed → collapsible accordion

7.2.2 Agencies Page

Objective: Manage agencies, monitor activity, and access details.

Desktop Layout:



Components:

- Search field (left), Filters (right)
- Table: agency name clickable → detail drawer slides from right
- Slide-in Agency Detail Panel includes:
 - Header with logo + basic info
 - Tabs: "Overview", "Frauds", "Subscription", "Integration"
 - Overview tab shows summary stats (listings, frauds, activity timeline)
- CTA: "Suspend", "Message", "View Analytics"

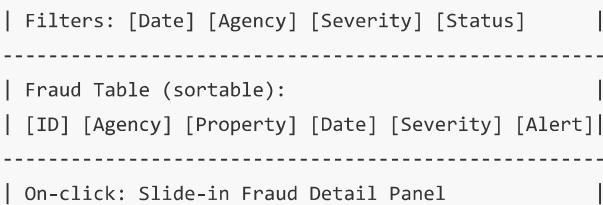
Mobile Layout:

- Table → Card list
- Each card shows key stats and "View Details" CTA
- Slide-in drawer becomes full-screen modal

7.2.3 Fraud Detections Page

Objective: Allow admins to review and manage all detected frauds.

Desktop Layout:



Fraud Detail Panel:

- **Top:** Property image + summary
- **Middle Tabs:**
 - a. Overview → Summary + timestamps
 - b. Property Info → Address, price, agency
 - c. Evidence → Linked documents, screenshots
 - d. Timeline → Detection, Alert, Resolution
- **Bottom Action Bar:**
 - [Resolve] [Escalate] [Comment]

Visual Cues:

- Severity level = color tag
 - Red = High
 - Orange = Medium
 - Yellow = Low

Mobile Layout:

- Filters collapse under "Filter" button
- Table → vertical card list

- Slide-in panel → full-screen view with swipe tabs
-

7.2.4 Analytics Page

Objective: Visual insight into overall fraud activity and recovery patterns.

Layout Structure:

```
-----|-----|-----  
| Filter Bar: [Date Range] [Agency] [Region] |  
-----|-----|-----  
| Row 1: Line Chart (Frauds Over Time) |  
| Row 2: Bar Chart (Recovered Value by Month) |  
| Row 3: Donut Chart (Fraud by Type) + Heatmap |  
-----|-----|-----  
| Export Buttons: CSV | PDF |
```

Interactions:

- Charts interactive: clicking data point deep-links to Fraud Detections page with filters applied.
- Export options: visible top-right

Mobile Layout:

- Charts stacked vertically
 - Filter collapses to dropdown
 - Export buttons move under charts
-

7.3 Estate Agency Dashboard Wireframes

7.3.1 Overview Page

Layout:

```
-----|-----|-----  
| Header: Welcome Message + Agency Logo |  
-----|-----|-----  
| Metrics Row: [Active Listings] [Fraud Alerts] [Resolved] [Recovery Rate] |  
-----|-----|-----  
| Chart: Fraud Alerts Over Time |  
-----|-----|-----  
| Table: Recent Detections (top 5) |  
-----|-----|-----  
| CTA: [Report Unresolved Case] |  
-----|-----|-----
```

Notes:

- Simplified compared to Admin dashboard.
- Focused only on agency's data.
- Fraud Trend Chart uses color-coded lines by severity.

Mobile:

- Cards stacked
 - Chart full-width
 - Table → scrollable with horizontal swipe
-

7.3.2 Detections Page

Layout:

Filters: [Status] [Date] [Severity]	
Table/List of Detections:	
[ID] [Property] [Severity] [Date] [Status]	

Detail View Tabs:

1. Overview
2. Evidence (with upload option)
3. Communication Log (with admin)
4. Resolution

CTA Buttons:

- “Acknowledge”
- “Submit Evidence”
- “Mark Resolved”

7.3.3 Billing Page

Layout:

- Subscription summary card
- Plan comparison grid
- Payment history table
- CTA: “Upgrade Plan” (highlighted)

Mobile:

- Collapse payment history into accordion list

7.4 Sandbox Dashboard Wireframe

Layout:

Header: Sandbox Environment Info Banner	
Cards: [Client ID] [Client Secret] [Agency Ref]	
Section: API Test Console (Code Editor Style)	
Response Panel below	

Logs Table: [Time] [Endpoint] [Response Code]	
---	--

Notes:

- Color-coded warning banner (“Test data only – reset nightly”)
- “Reset Sandbox” button top-right

- Light terminal aesthetic
-

7.5 Global Mobile Layout Rules

Component	Desktop → Mobile Conversion
Sidebar Nav	Converts to bottom nav bar (icons only)
Slide-in Panels	Become full-screen modals
Data Tables	Convert to scrollable cards
Charts	Stack vertically, reduce labels
Filters	Collapse into dropdown overlay
Header	Collapsible hamburger menu
Notifications	Appear as bottom sheet

7.6 Consistency Checklist

Element	Consistency Rule
Primary Action Buttons	Use same gradient / brand accent
Card Corners	Uniform radius (12px)
Shadows	Subtle elevation levels (card < modal < overlay)
Icons	Same library (Lucide / Feather)
Loading States	Skeleton loaders for tables and charts
Empty States	Illustrated placeholders with CTA ("No frauds detected yet")

Section 8: Visual Design System & Brand Styling

8.1 Brand Design Intent

Core Concept:

Property Eye is a **trust-tech platform** — analytical, reliable, and quietly powerful. Its visual identity should express *intelligence, transparency, and precision*. It should feel modern and data-driven while remaining simple and intuitive for everyday agency staff.

Design Keywords:

- Intelligent
- Trustworthy
- Analytical
- Professional
- Sleek Minimalism

Design Personality:

Think “Fintech precision meets PropTech reliability.”

8.2 Brand Colour Palette

The color scheme is designed to convey **confidence, sophistication, and clarity**, while using accent colors to draw attention to fraud alerts and key actions.

Type	Colour	Hex	Usage
Primary Brand Colour	Deep Blue	#1E3A8A	Header, buttons, highlights, charts
Primary Accent	Electric Cyan	#06B6D4	Interactive hover, data highlights
Secondary Accent	Indigo Purple	#4338CA	Complementary gradients, callouts
Alert (High Severity)	Crimson Red	#DC2626	Fraud alerts, warnings
Alert (Medium Severity)	Amber	#F59E0B	Warnings, status indicators
Alert (Low Severity)	Lime Green	#84CC16	Minor issues, resolved tags
Background	Snow White	#F9FAFB	Global background
Surface (Cards)	White	#FFFFFF	Card backgrounds, modals
Text Primary	Charcoal Gray	#1F2937	Main content text
Text Secondary	Slate Gray	#6B7280	Descriptive text
Lines / Borders	Soft Gray	#E5E7EB	Dividers, tables, input borders

Gradients Example (Primary CTA):

From `#1E3A8A` → `#4338CA`

Used for primary buttons, hover states, and call-to-action sections.

8.3 Color Application by Page Type

Page	Primary Use	Highlight / Accent	Notes
Homepage	Deep Blue (header, hero)	Cyan (buttons, icons)	Hero section: white-on-blue contrast
About / Contact	White background	Indigo headings	Clean and content-focused
Pricing Page	White with blue panels	Cyan highlights	Pricing tiers boxed with subtle shadows
Login / Signup	Blue background	White cards	Emphasize focus on forms
Admin Dashboard	White background	Blue accents on active cards	Alerts use red/amber/green chips
Agency Dashboard	White / light gray background	Cyan & green accents	Emphasize productivity, not warnings
Sandbox	Dark navy background	Cyan text highlights	"Developer console" feel

8.4 Typography System

Type	Font	Weight	Use
Primary Font	Poppins	400 / 600 / 700	Titles, UI headings
Secondary Font	Inter	400 / 500	Body text, labels
Numeric / Data	Roboto Mono	500	Metrics, analytics, fraud stats

Sizes & Hierarchy:

Element	Font Size	Weight
H1	36px	700
H2	28px	600

H3	22px	600
Body	16px	400
Small	14px	400
Caption	12px	400

Line Spacing:

1.4–1.6 for readability.

Letter Spacing:

- Headings: -1%
- Body: Normal

Mobile Adjustments:

Reduce all sizes by 2px across heading hierarchy.

8.5 Iconography

Style:

- Line-based (Lucide / Feather icons)
- Minimal, geometric consistency
- Stroke width: 1.5px
- Corner radius: 2px

Usage Examples:

- Fraud Detection → `AlertTriangle`
- Property → `Home`
- Agency → `Building`
- Analytics → `BarChart`
- Settings → `Sliders`
- Sandbox → `Code`
- Notifications → `Bell`

Color Rules:

- Active icons → brand blue or cyan
 - Inactive → slate gray
 - Alert icons → severity color (red/orange/green)
-

8.6 UI Components Theming

Buttons

Type	Background	Text	Border	Example Use
Primary	Gradient Blue → Indigo	White	None	"Add Agency", "Resolve Fraud"

Secondary	Transparent	Blue	Blue border	"Cancel", "Edit"
Destructive	Red	White	None	"Delete Case", "Suspend Account"
Disabled	Gray	Light Gray	None	Disabled actions

Hover State:

Increase contrast by +5% brightness or show subtle shadow.

Active State:

Pressed effect (inner shadow, opacity 0.9)

Cards

Type	Style	Use
Metric Cards	Shadow-sm, bold title, icon top-right	KPIs, analytics highlights
Data Cards	Table summary + CTA link	Agency/fraud previews
Interactive Cards	Slight hover lift + highlight border	Clickable links to detail pages

State Indicators:

- Active → blue border
 - Warning → amber top bar
 - Alert → red badge
-

Tables

- Zebra rows for readability
 - Header row fixed on scroll
 - Hover row = light blue tint
 - Sort icon (ascending/descending) active in cyan
 - Compact mode (mobile) → card view with stacked labels
-

Modals

- White background
 - Rounded corners (12px)
 - Header = solid brand blue
 - Button alignment: right-aligned bottom row
 - Use backdrop blur for focus
-

Charts

- Library: Recharts / Chart.js
- Line chart: brand blue

- Bar chart: indigo/cyan mix
 - Donut: fraud severity segmentation (red, amber, green)
 - Tooltip: dark translucent background with white text
 - Animation: easeInOutCubic (200ms)
-

8.7 Illustrations & Imagery

Illustration Style:

- Flat, minimal, vector-based
- Use blue/cyan gradients
- Abstract geometric patterns for background
- No stock photo overload — prefer symbolic imagery (shield, network lines, building silhouettes)

Dashboard Imagery:

Use icons + subtle color-coded badges for clarity instead of real estate photos (except when showing actual property fraud cases).

8.8 Animation & Interaction Principles

Interaction	Behavior	Duration	Notes
Hover (buttons, cards)	Subtle lift or shadow	200ms	Use easing curve
Slide-in panels	From right	250ms	Smooth transition
Chart animations	Line draw / bar grow	400ms	Ease-in-out
Toasts	Fade in/out	250ms	Appear top-right
Modal overlay	Fade + blur	200ms	Prevent scroll

All animations must be *functional* — to guide user attention, not for decoration.

8.9 Accessibility & Contrast

- Minimum color contrast ratio: **4.5:1** for text
 - All buttons must have **hover + focus states**
 - Tab navigation supported
 - Tooltip for all icons with no label
 - Responsive type scaling for mobile readability
-

8.10 Thematic Concept Summary

Area	Style Direction
Overall Aesthetic	Modern fintech-like dashboard

Primary Emotion	Trust, safety, professionalism
Secondary Emotion	Data-driven confidence
Moodboard References	Stripe Dashboard, Plaid Console, Notion UI minimalism
Light/Dark Mode	Start with light theme; dark mode optional phase 2

Section 9: User Flow Architecture & Page Interlinking

9.1 Core User Roles & Access Scope

User Role	Access Level	Primary Objective	Example Actions
Admin	Full access (platform-level)	Manage system, users, fraud data	View analytics, detect frauds, manage agencies
Real Estate Agency (Agent)	Limited to agency-owned data	Monitor property matches & fraud alerts	Register listings, view alerts, manage cases
Sandbox / Tester	Isolated testing environment	Test integrations with dummy data	API calls, simulate property matches

9.2 Global Navigation Structure

Primary Navigation (Visible After Login):

- Dashboard
- Fraud Cases
- Agencies (Admin only)
- Properties
- Analytics / Insights
- Notifications
- Settings
- Help / Support
- Logout

Top Navigation (Persistent Header):

- Logo (home shortcut)

- Quick search bar
- Notification bell (fraud alerts, agency updates)
- Profile dropdown (user settings, switch dashboard, logout)

Breadcrumb Navigation Example:

Dashboard → Fraud Cases → Case #PE-2319

9.3 Pre-login User Flow

A. Homepage → Signup/Login Journey

1. Homepage → CTA "Start Detecting Fraud"
↓
 2. Sign Up Page
 - User selects: "Register as Admin" or "Register as Agency"
 - Fills required details → creates account
↓
- Verification Page
 - Email verification confirmation
 - Redirect to login
 - Login Page
 - User enters credentials
 - System authenticates
 - Redirects based on role

Conditional Routing Logic:

- If Admin → `/admin/dashboard`
 - If Agency → `/agency/dashboard`
 - If Sandbox User → `/sandbox`
-

9.4 Post-login Flows

A. Admin Journey Overview

Goal: Monitor the platform's performance, manage agencies, and oversee fraud detection.

Navigation Path Example:

Dashboard → View Fraud Report → Investigate Case → Send Alert → Mark as Resolved

Flow Details:

- Dashboard (Default Landing Page)
 - KPIs: Active agencies, frauds detected, detection rate
 - Quick links: "View Fraud List", "Add New Agency", "System Analytics"
- Fraud Cases
 - Table view of all fraud instances
 - Filters: date range, agency, property type, fraud severity
 - Clicking a case → Fraud Details Page
- Fraud Details Page
 - Property information
 - Agency involved
 - Detection timestamp

- Fraud pattern summary
- “Notify Agency” button → triggers in-app + email notification
- “Resolve Fraud” → updates case status

- **Agencies Management**

- Table: registered agencies, subscription type, active listings
- Actions: view profile, suspend, edit plan, contact
- Cross-links to agency dashboard preview

- **Analytics**

- Trend charts (monthly fraud rate, agency engagement, commission recovery trends)
- Drill-down view (clicking a chart element → filtered fraud case list)

- **Settings**

- Manage API keys
 - Update admin profile
 - System configuration toggles (alert thresholds, sandbox resets)
-

B. Real Estate Agency Journey

Goal: Identify possible commission frauds, monitor listings, and respond to alerts.

Navigation Path Example:

Dashboard → View Alerts → Open Fraud Case → Confirm or Dismiss

Flow Details:

- **Dashboard**

- Overview cards: Active listings, frauds under review, resolved cases
- Fraud Alert widget → quick view of recent detections

- **Fraud Cases**

- Each row = fraud match (with status: *Detected*, *Notified*, *Resolved*)
- Filters: time, property location, client email, sale date
- “View Details” → opens Fraud Detail Page

- **Fraud Detail Page**

- Summary of property listing and suspected duplicate sale
- Fraud likelihood score (e.g., 92%)
- Timeline of interactions
- Resolution actions: “Confirm Fraud”, “Dismiss Alert”, “Request Review”

- **Properties**

- List of agency's registered listings
- Add / Edit / Archive property
- Cross-links to fraud detection module → “Check Property Match”

- **Analytics / Insights**

- Fraud trends for that specific agency
- Recovery performance graph
- Top-performing agents

- **Settings**

- Subscription management
- Manage API integrations (CRM, MLS feed, Alto, etc.)

- Notification preferences
-

C. Sandbox / Tester Journey

Goal: Simulate property listings, test detection API endpoints, validate fraud alerts.

Flow:

Dashboard → Add Test Property → Simulate Sale → Observe Detection Log

Key Screens:

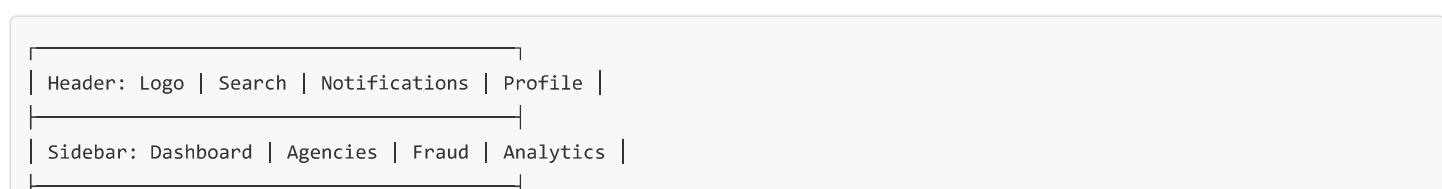
- **Sandbox Dashboard**
 - Test summary cards: Listings tested, fraud matches, API response time
 - Button: "Create New Simulation"
 - **Simulation Screen**
 - Add property details manually
 - Set mock parameters (buyer email, seller ID, listing date)
 - Run simulation → trigger fraud API check
 - **Result Log Page**
 - JSON response view
 - API latency metrics
 - Success/failure indicator
-

9.5 Cross-linking Architecture

Source Page	Destination	Trigger / Intent
Fraud Card	Fraud Details	Click on card or "View Details"
Agency Profile	Fraud Cases	"View all frauds for this agency" link
Dashboard KPI ("Frauds Detected")	Fraud Case Table	Click metric
Chart Data Point (Analytics)	Fraud Case Table	Click bar/line node
Property Listing	Fraud Case (if flagged)	Auto cross-link via property ID
Notification Alert	Fraud Details	Click alert notification
Admin → Sandbox	API test link	"Run test on sandbox" button

9.6 User Flow Maps (Wireframe Guidance)

A. Admin Dashboard Layout (Desktop)



Row 1: KPI Cards (Agencies Frauds Growth %)
Row 2: Fraud Chart Recovery Rate Graph
Row 3: Table - Recent Frauds

Mobile View:

- Sidebar collapses into hamburger menu
- KPI cards stack vertically
- Charts toggle via swipeable tabs

B. Agency Dashboard Layout (Desktop)

Header: Logo Alerts Profile
Sidebar: Dashboard Properties Alerts Analytics
Row 1: Fraud Alerts (with severity color badges)
Row 2: Table - Property Status
Row 3: Line Graph - Fraud Trend

Mobile View:

- Alerts shown first (priority order)
- Collapsible analytics section
- Swipe cards for key stats

9.7 Error & Empty States

Context	Example Message	Action
No frauds detected	"No suspicious activity yet — all clear!"	"Run new check"
API failed	"We couldn't connect to fraud service."	"Retry"
Empty dashboard	"Start by adding your first property listing."	"Add Property"
Missing permissions	"You don't have access to this page."	"Request Access"

9.8 Key Interaction Notes

- Notifications should **always link to contextually relevant pages** (e.g., clicking a fraud alert → Fraud Details).
- **Breadcrumbs** persist on all non-dashboard pages for orientation.
- **Charts and cards are interactive** — clicking metrics reveals filtered tables or details.

- **Modals** always allow navigation continuity (no forced reloads).

This section ensures the UI/UX designer builds a consistent multi-device experience.

Section 10: Mobile-Responsive Design Notes

10.1 Core Responsive Design Philosophy

Property Eye must maintain a **data-first, clarity-driven layout** across all devices — ensuring users can easily **track frauds, review properties, and view alerts** even on smaller screens. The philosophy follows:

- **Progressive Disclosure:** Only show key metrics upfront; allow deeper data via modals or expandable panels.
 - **Hierarchy Consistency:** Prioritize alerts → KPIs → tables → secondary navigation.
 - **Touch-first Design:** All interactions (buttons, filters, charts) must be thumb-friendly and gesture-optimized.
 - **Adaptive Charts:** Use collapsible or swipeable visualizations that adjust based on available screen width.
-

10.2 Responsive Grid Framework

Base Framework:

- Use a **12-column grid system** (CSS Grid or Tailwind Flex Grid).
- Content should collapse from **3-column desktop** → **2-column tablet** → **1-column mobile**.
- Minimum supported mobile width: **360px**.

Breakpoints:

Device	Width Range	Layout Behavior
Desktop	≥1200px	Full analytics view with sidebars
Tablet	768–1199px	Collapsed sidebar, stacked KPIs
Mobile	≤767px	Vertical scroll layout, floating nav buttons

10.3 Navigation Responsiveness

Header

- **Desktop:** Logo left, search center, profile + notifications right.
- **Mobile:**
 - Logo + hamburger menu top-left.
 - Notifications icon + profile dropdown top-right.
 - Search becomes a collapsible icon → opens overlay search modal.

Sidebar

- **Desktop:** Fixed vertical menu on the left.
- **Tablet:** Collapsible sidebar; expands on hover or tap.
- **Mobile:** Hidden by default → accessible via hamburger.
- Active pages indicated by vertical highlight bar or icon color change.

Breadcrumb Navigation

- Collapses to last node on mobile.
- Example:
 - Desktop: `Dashboard → Fraud Cases → Case #PE-2309`
 - Mobile: `← Case #PE-2309` (Back button replaces breadcrumb).

10.4 Dashboard Responsiveness

Admin Dashboard

- **Desktop View:**
 - Top row: KPI cards (3–4 across)
 - Middle: Dual charts (Fraud Trends, Recovery Rates)
 - Bottom: Fraud Case Table
- **Tablet View:**
 - KPIs reduce to 2 per row.
 - Charts stack vertically.
 - Fraud Case Table scrolls horizontally.
- **Mobile View:**
 - KPIs appear as **swipeable cards**.
 - Charts collapse into **accordion-style toggles** (“Fraud Trend ▼”, “Recovery ▼”).
 - Table view replaced by a **card list view**, each showing key fraud info:

```
[Fraud ID] #PE-2312
Agency: Sun Estates
Property: 12 High Road, Bristol
Status: Pending Review
Likelihood: 87%
```

- Action buttons (“View”, “Notify”, “Resolve”) appear as icons at the bottom.

Agency Dashboard

- **Desktop View:**
 - Cards: Active Listings | Detected Frauds | Fraud Rate % | Revenue Lost (Est.)
 - Table: Fraud Alerts + Property Listings
 - Chart: Fraud Over Time
- **Mobile View:**
 - Dashboard becomes **scrollable vertical stack**:
 - Alerts (always top priority)
 - Active listings
 - Fraud Trend (as compact line chart)

- Table → collapsible cards:
 - Tap card → opens modal with property + fraud detail.
-

10.5 Forms & Data Entry Responsiveness

Element	Desktop	Mobile
Input Fields	Inline labels, horizontal layout	Stacked vertically
Date Pickers	Inline dropdowns	Modal pop-up date picker
Multi-select Filters	Checkbox grid	Scrollable dropdown or chips
Action Buttons	Right-aligned toolbar	Floating action button (FAB) bottom-right
Confirmation Modals	Centered pop-up	Full-screen overlay modal

FAB Examples:

- “+ Add Property”
 - “Run Fraud Check”
 - “Export Report”
-

10.6 Tables, Charts, and Analytics Responsiveness

Tables

- **Desktop:** Full table with headers, sort, filter, pagination.
- **Mobile:**
 - Transforms into card stacks.
 - Each card shows 3–4 key metrics with “More” toggle.
 - Optional “Expand Table” to view in landscape mode.

Charts

- **Desktop:**
 - Dual or triple chart grid layout.
 - Hover tooltips and filter toggles.
- **Mobile:**
 - Charts become **carousel/swipeable**.
 - Simplified legends below charts.
 - Tap data point → opens detail modal.

Analytics KPIs

- Auto-resize font & padding for readability.
- Compact badges for percentage deltas ($\uparrow 12\%$ or $\downarrow 4\%$).
- Always maintain consistent color semantics:
 - Green = Positive trend

- Red = Negative trend
 - Amber = Neutral/Warning
-

10.7 Alerts, Notifications, and Toasts

- **Desktop:** Right-side slide-in notification tray.
 - **Tablet/Mobile:**
 - Top-center toasts (auto-dismiss after 5s).
 - Long alerts → “View Details” CTA leading to Fraud Case page.
 - Use icons to denote alert type:
 - = New Fraud Detected
 - = Fraud Resolved
 - = New Subscription Update
-

10.8 Interactivity and Gesture Notes (Mobile)

Gesture	Action
Swipe left on fraud card	Reveal options: “View”, “Dismiss”, “Notify”
Pull down	Refresh dashboard data
Long press	Mark as reviewed
Tap KPI card	Drill down to analytics detail
Double tap chart	Toggle data aggregation (weekly/monthly)

10.9 Performance & Accessibility

- **Lazy load** all analytics and tables for faster mobile performance.
 - **Skeleton loaders** for heavy data views.
 - **Touch target size:** Minimum 44px.
 - **Font scaling:**
 - Headings: 20–24px (desktop), 18px (mobile)
 - Body text: 16px (desktop), 14px (mobile)
 - **Contrast ratio:** Maintain WCAG AA compliance ($\geq 4.5:1$).
-

10.10 Visual Consistency Across Devices

- **Theme Adaptation:** Maintain Property Eye’s core color palette consistently:
 - Dark Blue (#0E1D34) – header, sidebar background
 - Teal (#00B7B7) – primary CTA
 - Light Gray (#F4F6FA) – background for content areas
 - Red (#E94E3C) – fraud alerts and error states

- Green (#3DBE74) — success / resolved cases

- **Light/Dark Mode Support:**

- Default: Light mode
 - Optional toggle for dark mode (especially for analysts working long hours).
 - Charts adapt line color automatically for both themes.
-

10.11 Responsive Layout Summary Table

Component	Desktop	Tablet	Mobile
Sidebar	Fixed	Collapsible	Hidden
Charts	Multi-column grid	Stacked	Carousel
Tables	Full	Scrollable	Card stack
KPIs	3–4 per row	2 per row	Swipe cards
Forms	Inline	Stacked	Stacked
Header	Full	Full	Compact
Alerts	Right tray	Top toast	Center toast

Section 11: Visual Style System & Design Tokens

11.1 Brand Identity Overview

Brand Concept:

Property Eye represents **trust, transparency, and vigilance** in the real estate ecosystem. The visual system should communicate **credibility** (for agencies and investors), **sophisticated intelligence** (for the detection tech), and **human clarity** (for everyday agents using the platform).

Brand Personality Keywords:

- **Professional** – serious but approachable
- **Analytical** – data-driven precision
- **Protective** – standing guard over agency interests
- **Modern** – clean, minimal, future-focused

Overall Style:

- Use a **clean, modular design language** with ample white space.

- Subtle shadows and depth layers should emphasize hierarchy without clutter.
 - Rounded corners and soft transitions reflect friendliness and accessibility.
-

11.2 Core Color Palette

Token	Color	Usage
Primary Blue	#0E1D34	Headers, navigation bars, logos, strong text
Accent Teal	#00B7B7	Primary CTAs, active states, data highlights
Success Green	#3DBE74	Confirmations, resolved frauds, positive trends
Warning Amber	#F7B731	Pending alerts, neutral warnings
Error Red	#E94E3C	Fraud detected, system errors
Neutral Gray 100	#F4F6FA	Background surfaces
Neutral Gray 300	#DADFE6	Borders, dividers, secondary UI elements
Neutral Gray 700	#6B7280	Secondary text, table metadata
White	#FFFFFF	Primary backgrounds
Black (Rich)	#0A0A0A	Text overlays on light themes

11.3 Extended Palette (Optional Variants)

Token	Color	Context
Light Teal	#5FE0D5	Hover or secondary CTA background
Deep Navy	#081423	Dark mode headers, modals
Soft Green Tint	#DFF7EC	Success state backgrounds
Alert Pink Tint	#FEEAEA	Fraud detection alert panels
Analytics Blue Tint	#E8F1FA	Chart backgrounds, dashboard highlights

Color Rules:

- Use **Teal** for positive user actions and success progressions.
 - Reserve **Red** only for fraud or error states.
 - Never combine Red and Green side by side; use neutral gray or white separators.
 - Maintain a **minimum contrast ratio of 4.5:1** for accessibility compliance.
-

11.4 Typography System

Type	Font	Weight	Size (Desktop)	Size (Mobile)	Usage
Primary Font	Inter	400–700	-	-	Clean, modern sans-serif for UI
Headers (H1)	Inter Bold	700	32px	26px	Page titles, key sections
Subheaders (H2)	Inter SemiBold	600	24px	20px	Section headers
Body Text	Inter Regular	400	16px	14px	Paragraphs, general content
Labels / Meta	Inter Medium	500	13px	12px	Taglines, buttons, input labels
Numerical / Analytics	Inter SemiBold	600	Scalable	Scalable	KPI displays, dashboards

Typography Guidelines:

- Use **consistent hierarchy** — no more than three text weights per screen.
 - Prefer **left-aligned text** for readability.
 - Use **uppercase** only for small UI elements (tags, filters).
 - Always maintain **line height = 1.5x** the font size for body text.
-

11.5 Component Styling & Design Tokens

Buttons

Type	Background	Text	Border	Shadow	Use Case
Primary CTA	Teal (#00B7B7)	White	None	Soft drop	"Run Check", "Add Agency", "Proceed"
Secondary	White	Teal	1px solid Teal	None	"Learn More",

CTA					"View Details"
Destructive	Red (#E94E3C)	White	None	Soft	"Delete", "Dismiss Fraud"
Disabled	Gray 300	Gray 700	None	None	Non- interactive states

Button Rules:

- Always use **rounded corners (8px)**.
 - Maintain **minimum touch area: 44x44px**.
 - Hover states: subtle 5% brightness increase, shadow + transition `0.15s ease`.
-

Input Fields & Forms

- Border: 1px solid `#DADFE6`
- Border radius: `6px`
- Focus outline: 2px solid Teal (`#00B7B7`)
- Background: White by default; soft gray (`#F9FAFB`) for read-only.
- Label positioning: Always top-aligned.

Form feedback states:

- Success: Border Green (`#3DBE74`)
 - Error: Border Red (`#E94E3C`), helper text below
 - Warning: Border Amber (`#F7B731`), icon tooltip
-

Cards

- Background: White
- Border: 1px solid `#E5E7EB`
- Border radius: `10px`
- Shadow: `0 2px 6px rgba(0, 0, 0, 0.05)`
- Hover: Lift effect + subtle shadow increase
- Padding: `20px`

Usage:

- KPI cards, property info cards, fraud case summaries, dashboard modules.
-

Tables

- Header: Bold text on light gray background.
 - Row hover: Slight background tint (`#F8FAFC`).
 - Alternating row color: Off-white.
 - Active row: Highlight border left in Teal.
 - Pagination bar: Fixed bottom border.
-

Modals & Drawers

- Background: White or Dark Navy (for dark mode).
 - Overlay: `rgba(0, 0, 0, 0.45)`
 - Border radius: `12px`
 - Animations: Fade-in + scale from center (0.2s ease).
 - Mobile: Convert to full-screen slide-up panel.
-

11.6 Data Visualization & Chart Colors

Chart Element	Primary Color	Secondary	Use Case
Fraud Detection Trend	Teal (#00B7B7)	Navy (#0E1D34)	Line/Area charts
Recovery Rate	Green (#3DBE74)	Light Green Tint	Pie/Bar charts
Month-to-Month Comparison	Amber (#F7B731)	Gray 700	Column charts
High Fraud Probability	Red (#E94E3C)	Pink Tint	Highlighted points
Neutral / Unknown	Gray 300	Gray 700	Background states

Chart Design Guidelines:

- Max two highlight colors per chart.
 - Always display numerical tooltips on hover.
 - Mobile: Simplify axis labels, use swipe for multi-chart view.
-

11.7 Spacing & Layout Tokens

Token	Value	Purpose
Space-XS	4px	Element micro padding
Space-S	8px	Small margin or gap
Space-M	16px	Standard padding between components
Space-L	24px	Section padding
Space-XL	40px	Page padding or large content breaks
Border Radius-Base	8px	Default for all cards/buttons
Shadow-Base	0 2px 6px rgba(0, 0, 0, 0.05)	Subtle depth across UI

11.8 Iconography

- Icon Style: Line-based, modern, minimalist (Lucide or Heroicons preferred).
- Stroke weight: 1.5px
- Icon sizes:
 - 16px (inline)
 - 24px (buttons & lists)
 - 32px (dashboard headers)

Key Icons:

- Eye — View details
- Alert — Fraud detected
- Home — Dashboard / Listings
- User — Profile
- Chart — Analytics
- Bell — Notifications
- Integration — CRM API / sandbox
- Chat — Support

11.9 Light vs. Dark Mode Rules

Element	Light Mode	Dark Mode
Background	White	Deep Navy (#081423)
Text	Black (#0A0A0A)	White (#FFFFFF)
Card Background	Gray 100	Gray 700
Border	Gray 300	Gray 500
Accent	Teal	Light Teal
Alerts	Red (#E94E3C)	Pink Tint (#FEEAEA)

Transition: Smooth fade-in via CSS variable switch (0.3s ease).

Recommendation: Default to Light Mode with user toggle at top-right profile menu.

11.10 Design Token Naming Convention (for Developers)

Token Type	Format	Example
Color	<code>color-[category]-[shade]</code>	<code>color-primary-500</code>
Font	<code>font-[use]-[size]</code>	<code>font-body-md</code>

Spacing	<code>space-[size]</code>	<code>space-xl</code>
Border Radius	<code>radius-[use]</code>	<code>radius-card</code>
Shadow	<code>shadow-[depth]</code>	<code>shadow-soft</code>

Section 12: Interaction & Motion Design Principles

12.1 Purpose of Motion

Motion design in Property Eye isn't just visual flair — it communicates **state, structure, and feedback**. Every transition or animation serves one or more of the following purposes:

1. **Guidance** — helps users understand navigation or task completion.
2. **Feedback** — confirms when actions are successful or failed.
3. **Hierarchy** — draws attention to critical or changing data.
4. **Delight** — builds brand confidence through fluid, modern movement.

Motion should feel **controlled, intelligent, and meaningful** — mirroring how Property Eye quietly works in the background to detect fraud and surface insights.

12.2 Motion Principles

Principle	Description	Example
Purposeful, not playful	Avoid over-animation. Every transition should help comprehension.	Smooth tab transitions, modal fade-in
Speed communicates confidence	Slightly faster UI = trustworthy. Avoid laggy movement.	Card hover 150ms, modal open 200ms
Consistency builds trust	Use uniform easing and durations platform-wide.	Shared transition tokens
Subtle Depth, Not Gimmicks	Depth should clarify layering, not distract.	Drop shadows increase on hover
Focus through Motion	Motion guides user focus to alerts, updates, or fraud detections.	Flash highlight when a new alert appears

12.3 Global Transition Tokens

Token	Duration	Easing	Use Case
<code>motion-fast</code>	120ms	ease-out	Hover, focus, simple button states
<code>motion-medium</code>	200ms	ease-in-out	Modals, cards, dropdowns
<code>motion-slow</code>	350ms	cubic-bezier(0.4, 0, 0.2, 1)	Page transitions, navigation, charts
<code>motion-fade</code>	250ms	ease	Alerts, tooltips, toasts

Easing Function Standard:

- Default easing: `cubic-bezier(0.4, 0, 0.2, 1)` (Material-inspired, smooth start and end).
- Keep durations proportional to distance — longer transitions only when major layout changes occur.

12.4 Interaction Feedback System

1. Hover States

- **Buttons:** Brightness +5%, subtle shadow expansion.
- **Cards:** Lift 2px, shadow darkens slightly (`rgba(0,0,0,0.1)`).
- **Table rows:** Background tint highlight.
- **Icons:** Soft color accent on hover (`Teal 20%`).
- **Links:** Underline slide-in from left.

2. Click / Tap States

- **Buttons:** Quick color compression (simulate physical press).
- **Checkboxes / Toggles:** Scale down 95% → 100% (bounce back).
- **Cards:** Flash border accent when selected.

3. Success / Error Feedback

Type	Motion	Example
Success	Subtle fade-in of green tick, pulse glow once	“Fraud alert sent successfully”
Error	Shake (2° oscillation, 120ms) or red border flash	Invalid login, failed upload
Warning	Soft amber pulse on icon	“Data sync incomplete”

12.5 Page Transitions

Page Type	Transition	Description
Login → Dashboard	Fade-out → slide-in from bottom	Signifies “entry” into workspace
Dashboard → Analytics / Settings	Crossfade with horizontal slide	Continuous workflow feeling
Modal Open / Close	Scale from center (95% → 100%)	Keeps focus and reduces jumpiness
New Fraud Record Alert	Slide in from right, icon pulse	Urgent but not intrusive

Best Practice:

All transitions should maintain layout stability – never displace major elements during animation.

12.6 Micro-Interactions (Critical UX Moments)

Micro-interactions enhance engagement by adding *intentional, human feedback*.

Below are Property Eye’s key interaction moments:

1. Fraud Detection Notification

- **Animation:**
 - Bell icon pulse once (Teal)
 - “New Detection” card slides in from right-bottom corner.
 - Card glow softly for 2 seconds, then settles.
- **Sound cue (optional):** Soft chime for desktop, vibration on mobile.

2. Fraud Alert Review

- When opening a fraud case:
 - Transition: Card expands smoothly to full modal view.
 - Background dims.
 - Header text animates in with fade + upward slide.
 - “Mark as Reviewed” button glows once (Teal → White).

3. Dashboard Metrics Refresh

- When analytics refresh:
 - Counters roll numerically (odometer-style increment).
 - Small line chart spark animates upward.
 - Last updated timestamp fades in.

4. Agency Management

- Adding a new agency triggers:
 - Confirmation modal fade-in + checkmark morph animation.
 - Success toast slides up briefly with fade-out after 3 seconds.

5. Login & Authentication

- Logo fade-in on load.
 - Button transitions in sequence (top-down).
 - If login fails → Shake input field + red underline animation.
-

12.7 Data Visualization Motion

Chart Type	Recommended Motion	Timing	Description
Bar/Column Charts	Bars grow upward from baseline	400ms staggered	Creates “data loading” effect
Line Charts	Line draws from left to right	300ms	Shows temporal flow
Pie Charts	Wedge expand sequentially	250ms per wedge	Great for distribution insight
Real-time Alerts Graph	Pulse effect on recent fraud point	Loop every 2s	Indicates live detection feed

Rule: Motion in data visualization should never obscure values. Always include final state labels after animation ends.

12.8 Mobile Interaction Design

Interaction	Description	Motion Behavior
Menu Drawer	Swipes from left, covers 80% of viewport	Slide + fade 250ms
Bottom Sheets (Filters, Details)	Slide-up from bottom	Elastic easing (cubic-bezier(0.34,1.56,0.64,1))
Tap Feedback	Quick color flash (100ms)	Indicates touch acknowledgment
Scrolling Sections	Sticky header fades slightly	Emphasizes content hierarchy
Fraud Alerts (Push)	Toast slides in from top, auto-dismiss	3s fade-out

12.9 Accessibility Through Motion

Property Eye's motion must also support accessibility preferences.

- Respect `prefers-reduced-motion` settings.
 - Disable non-essential transitions.
 - Replace with opacity changes or instant state shifts.
 - Maintain sufficient contrast during animated color transitions.
 - Avoid flickering effects >3Hz to prevent visual discomfort.
-

12.10 Developer Implementation Notes

- Use CSS variables for motion tokens:

```
--motion-fast: 120ms;
```

```
--motion-medium: 200ms;  
--motion-slow: 350ms;  
--ease-default: cubic-bezier(0.4, 0, 0.2, 1);
```

- All interactive elements should use `transition: all var(--motion-medium) var(--ease-default);`
- Use **Framer Motion** or **GSAP** for React-based animations in dashboards.
- Animations should remain performant:
 - Use `transform` instead of `top/left`.
 - Limit heavy shadows during animations.

That section will visually and structurally tie all the pages and flows together.

Section 13: Information Architecture (IA) & Navigation System

13.1 IA Philosophy

Property Eye's IA must balance **clarity**, **speed**, and **purpose**.

Users should instantly know:

- Where they are
- What they can do
- How to return to a previous step

We achieve this through:

1. **Clear hierarchy** – logical grouping of features (Detection, Analytics, Management, etc.)
 2. **Consistent top and side navigation** – familiar web-app structure.
 3. **Minimal depth** – no function buried beyond 3 clicks.
 4. **Cross-context access** – quick jump from fraud record → property → agent → alert.
-

13.2 Global Navigation Structure

Primary Navigation (Top Bar)

Visible across all dashboards (Admin, Agent, Sandbox).

Element	Description	Behavior
Logo (Property Eye)	Top-left; links to user's main dashboard	Persistent on all pages
Search Bar	Universal search: agents, properties, frauds	Expands to full-width modal search
Notifications Icon	Fraud alerts, account events	Bell icon → dropdown list, click opens fraud record

Profile Menu	Account settings, logout	Avatar or initials → dropdown
Help / Docs	Link to API docs or help center	Opens in new tab

Secondary Navigation (Left Sidebar)

Context-sensitive per dashboard type.

Admin Dashboard

- Overview (default landing)

- Fraud Detection

- View All Detections
- Active Alerts
- Historical Detections

- Agency Management

- All Agencies
- Add New Agency
- Subscription Status

- Analytics

- Performance Metrics
- Detection Trends
- System Efficiency

- User Management

- Admins
- Agents
- Access Levels

- Settings

- System Configurations
- API Management

- Support / Logs

- Error Reports
- API Logs

Agent Dashboard

- Overview

- My Listings

- Active Properties
- Withdrawn Properties
- Archived Properties

- Detected Matches

- Fraud Alerts
- Verification Queue

- Analytics

- Personal Stats

- Monthly Reports
- **Billing & Subscription**
- **Settings**
 - Profile
 - Integration Keys
 - Notification Preferences

Sandbox Dashboard

- **Overview**
 - **API Testing**
 - Endpoint Playground
 - Request Logs
 - **Integration Keys**
 - **Support**
 - Docs
 - Community
-

13.3 Navigation Flows (Desktop)

1. Admin Flow:

Login → Dashboard Overview → Fraud Detection → Fraud Record → Linked Agency → Analytics → Back to Overview

- Each card on “Overview” page (Frauds, Agencies, Reports) acts as a **deep link**.
- Breadcrumbs appear on all inner pages.
- Example:

Dashboard > Fraud Detection > Record #2049

2. Agent Flow:

Login → Agent Dashboard → Detected Matches → Property Record → Verification → Analytics

- Quick actions on cards: *Mark Reviewed*, *View Buyer Details*, *Download Report*.
- Sidebar collapses for focused property review.

3. Sandbox Flow:

Login → Sandbox Dashboard → API Playground → Test Query → View JSON Response → Compare Results → Documentation Link

- Sidebar provides shortcuts to “Endpoints,” “Logs,” and “API Keys.”
- Ideal for third-party developers or internal testing.

13.4 Cross-Linking Strategy

Page	Linked From	Linked To
Fraud Record Page	Dashboard cards, notifications	Agency Profile, Property Page
Agency Profile	Fraud Record, Analytics	Subscription, User List

Analytics Page	Overview, Fraud Detection	Detailed Charts, Export
Property Page	Fraud Record, Agent's Listings	Buyer Data (limited)
Settings	Profile dropdown, sidebar	Billing, API Keys

Rationale:

This ensures a user can follow one *fraud case* end-to-end:

- | Fraud Record → Property → Agency → Buyer → Action Taken → Outcome
-

13.5 Mobile Navigation Adaptation

Top Navigation

- Collapses into **hamburger menu**.
- Notifications and profile menu remain as icons on top right.

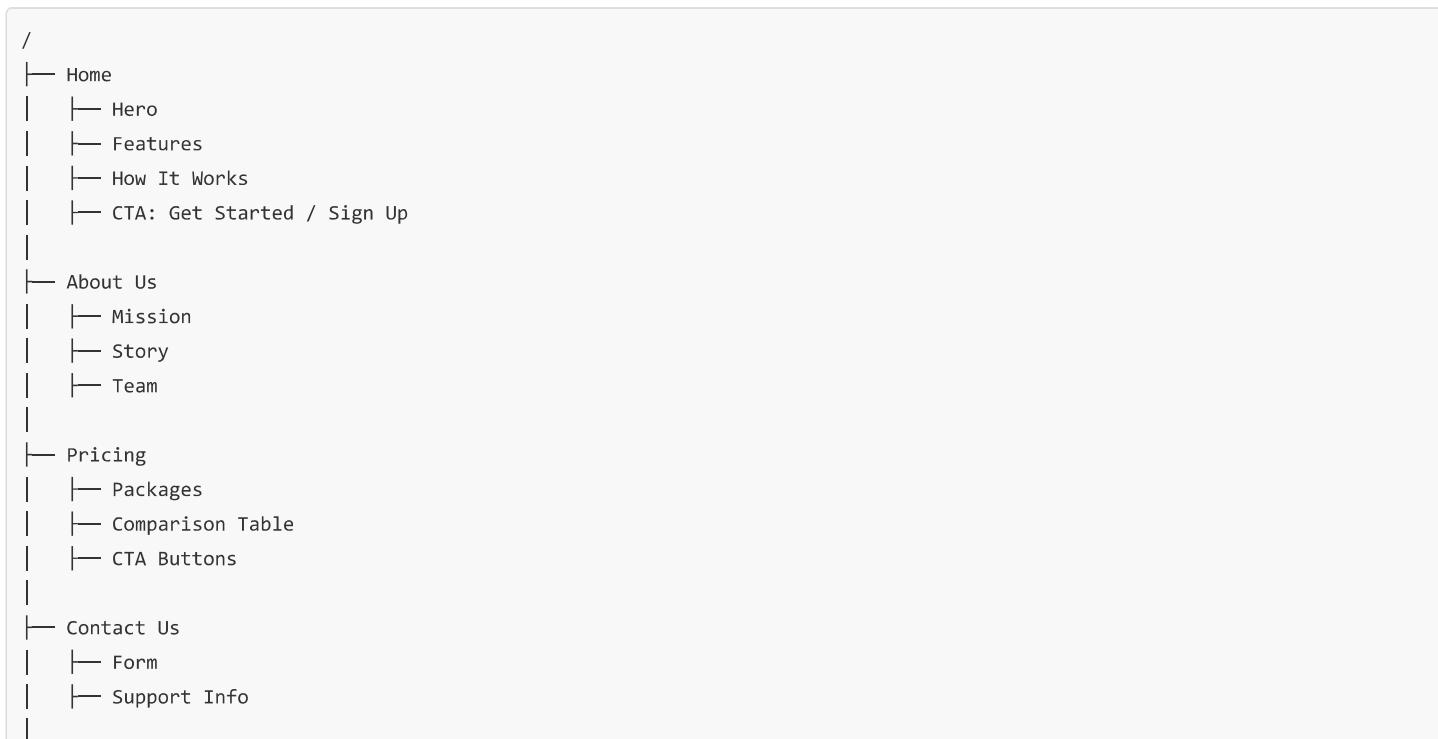
Sidebar Navigation

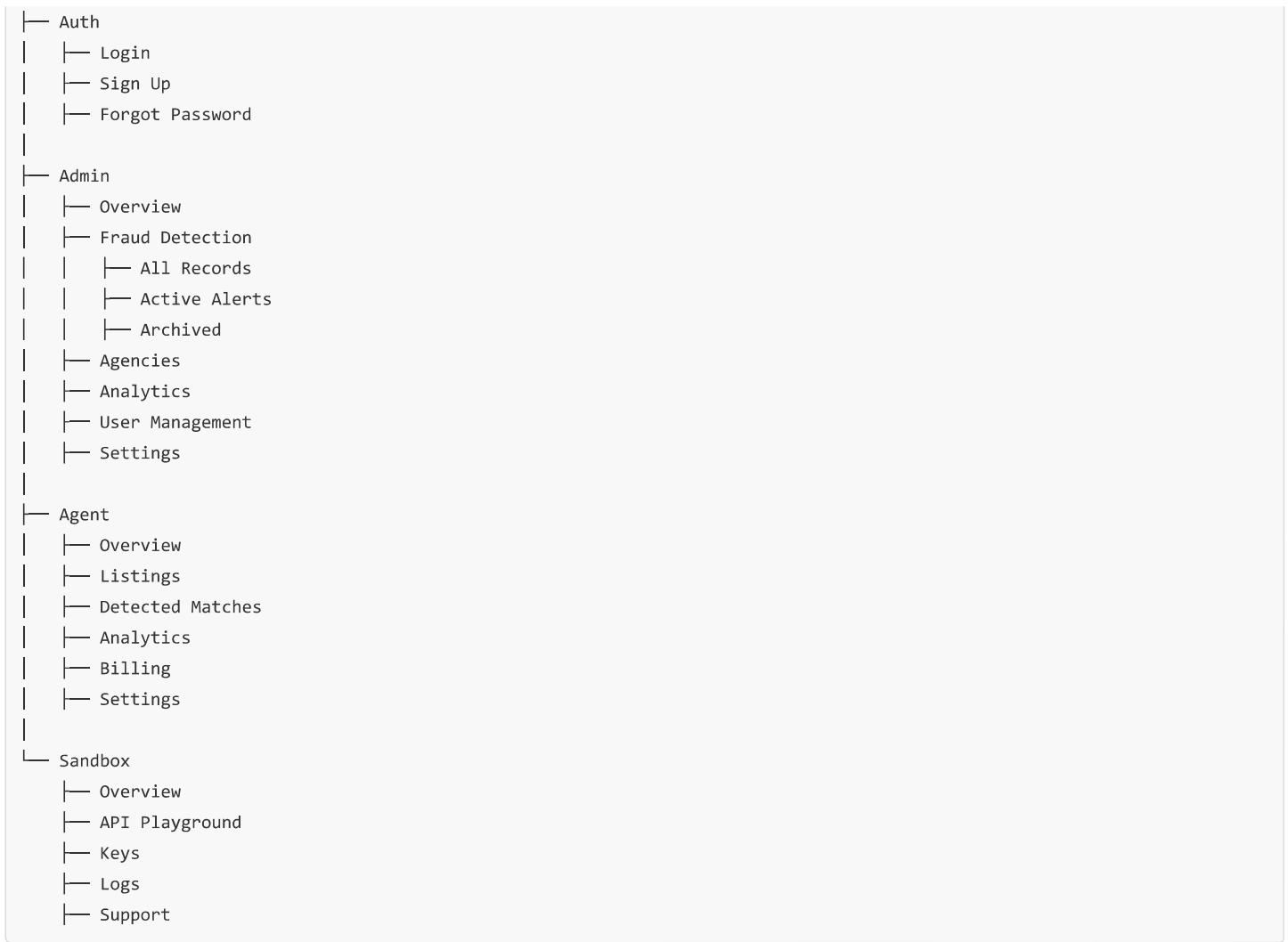
- Converts into **bottom navigation bar** with 4–5 key icons:
 - Home / Dashboard
 - Alerts
 - Analytics
 - More (drawer with additional options)

Page Layout

- Cards stack vertically with expandable accordions.
 - Charts convert into swipeable horizontal mini-graphs.
 - Actions (Edit, Review, Send Alert) move to sticky bottom bars.
-

13.6 Page Hierarchy (Full Sitemap)





13.7 Navigation Patterns Summary

Pattern	Applies To	Description
Top Bar + Left Sidebar	Web dashboards	Primary navigation, consistent branding
Breadcrumbs	Nested pages	Quick return to previous state
Action Buttons	Cards, tables	Inline task execution (Edit, Review, Delete)
Floating CTA Button	Mobile only	Sticky "+ Add" or "Report Fraud"
Modal Overlays	Alerts, Settings	Keep context without leaving main view

13.8 Developer & Designer Notes

- Implement navigation structure using **React Router v6** or similar.
- Ensure persistent state for filters and pagination across navigation.

- Sidebar collapsible (auto-hide on smaller viewports).
- Use consistent icons from **Lucide** or **Feather** set for clarity.
- Support dark mode toggle in profile dropdown.
- Design for speed: no page transition should exceed **350ms**.

That section will help the UI/UX designer translate everything into actual **Figma frames** and design systems.

Section 14: Dashboard Page Wireframe Guidance

14.1 Overview

The dashboards are the heart of Property Eye — where detection, reporting, and management take place. Each role (Admin, Agent, Sandbox user) sees data differently but navigates through a consistent interface.

Core design principle: “**Clarity through structure**.”

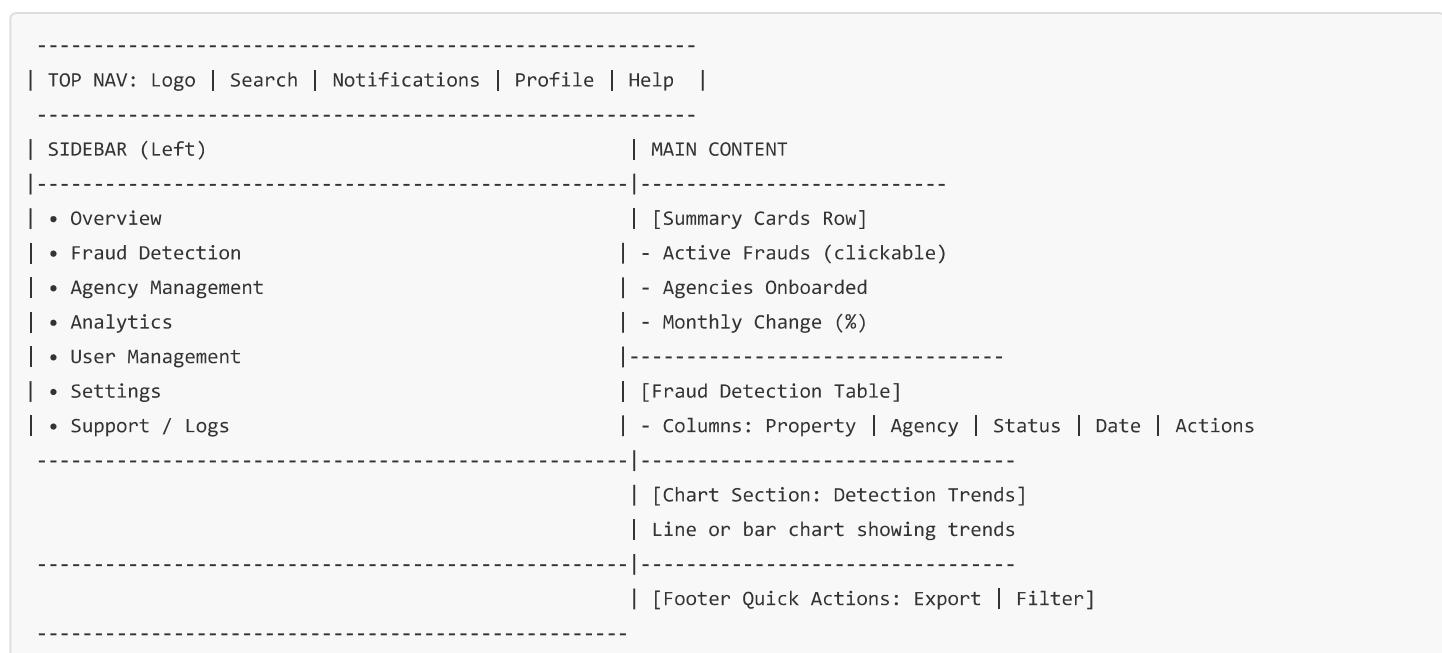
Dashboards should provide immediate insight, clear hierarchy, and quick access to actionable items (fraud alerts, analytics, integrations).

14.2 ADMIN DASHBOARD

Purpose

Gives administrators complete oversight into Property Eye's operations — total frauds detected, agencies onboarded, activity over time, and access to user management, analytics, and fraud data.

Wireframe Layout (Desktop)



Component Breakdown

Component	Description	Behavior
Summary Cards	Key KPIs: total frauds, total agencies, monthly fraud delta	Clickable → deep link to detailed table
Fraud Table	Paginated list of all detected frauds	Filter by date, agency, property, status
Charts (Analytics Snapshot)	Visual summary of fraud trends	Hover = tooltip; legend toggle
Quick Filters Panel	(Right side modal) Date range, agency name, fraud type	Persistent filter memory
Notifications Panel	Dropdown list from bell icon	Alerts, API errors, new agents
User Management Drawer	Slide-over drawer for quick access	Edit access levels inline

Interaction Flow

1. User logs in → sees global KPIs on top.
2. Scrolls to fraud detection table.
3. Clicks record → expands modal with fraud details.
4. Within modal → can jump to agency profile or analytics.
5. Persistent navigation allows quick cross-linking.

Mobile Adaptation

- Sidebar collapses into hamburger menu.
- Summary cards stack vertically.
- Fraud table converts into collapsible accordions per record.
- Charts become swipeable horizontally.
- Filters appear as bottom drawer modal.

Design Considerations

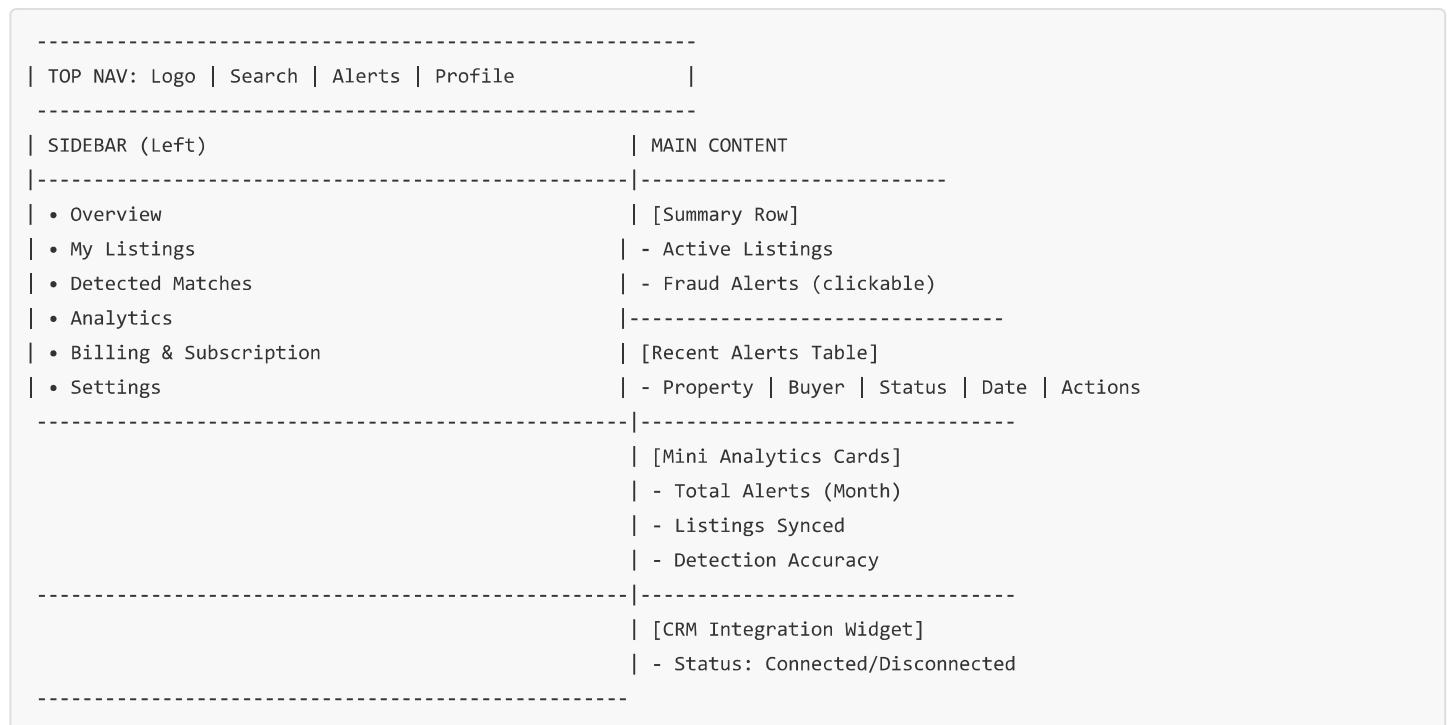
- **Visual hierarchy:** Cards (bold headers, icons), followed by tables and charts.
- **Primary color:** Navy blue (#1E2A47) for headers and accents.
- **Alert color:** Orange (#FF7A00) for fraud highlights.
- **Cards:** White background, soft shadow, rounded corners (8–12px).
- **Chart palette:** Blue gradients for active frauds, gray for historical data.

14.3 AGENT DASHBOARD

Purpose

Allows estate agents to monitor their properties, view fraud detections related to their listings, integrate CRM data, and assess monthly performance.

Wireframe Layout (Desktop)



Component Breakdown

Component	Description	Behavior
Summary Cards	Fraud alerts, synced listings, monthly performance	Click → detail
Alerts Table	List of fraud matches with property ID, buyer, date	Filterable
Mini Analytics Cards	Shows detection accuracy, success rate	Small line spark charts
CRM Integration Widget	Shows connection status, last sync date	Button: "Manage Integration"

Interaction Flow

1. Agent logs in → Overview displays top KPIs.
2. Clicks “Detected Matches” to review potential fraud cases.
3. Opens case → sees details (property, buyer, date withdrawn).
4. Option to confirm or dispute fraud.
5. Integration widget provides quick link to reconnect CRM if needed.

Mobile Adaptation

- Fraud alerts appear as card stack with expandable detail view.
- Analytics and CRM sections shift to horizontal scroll cards.
- Floating “+” button for reporting fraud or syncing data.

Design Considerations

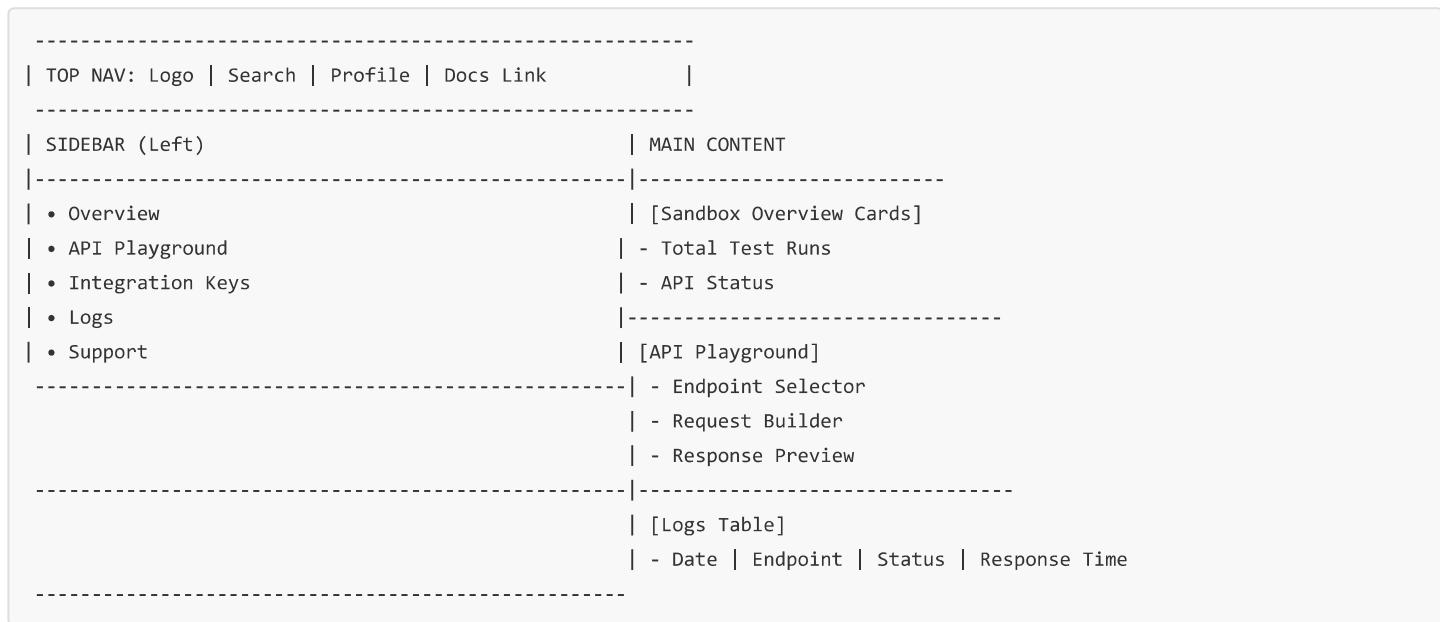
- **Accent color:** Emerald green (#22C55E) to symbolize recovery & trust.
- **Warning color:** Amber (#F59E0B) for potential fraud.
- **CRM status indicator:** Green dot (connected), red dot (error).
- Consistent use of badges for status (Active, Withdrawn, Reviewed).

14.4 SANDBOX DASHBOARD

Purpose

Internal or developer testing environment to simulate fraud detection API calls, validate CRM integrations, and analyze logs.

Wireframe Layout (Desktop)



Component Breakdown

Component	Description	Behavior
Overview Cards	Total test runs, successful calls, error rate	Click → filters log table
API Playground	Request/response testing area	JSON input/output
Logs Table	Request history	Filter by date, endpoint, result

Integration Keys Panel	Client ID, Secret, regenerate options	Copy-to-clipboard buttons
------------------------	---------------------------------------	---------------------------

Mobile Adaptation

- API playground input and output stack vertically.
- Logs appear as collapsible cards with endpoint and response summary.
- Copy buttons use icons only (no labels).

Design Considerations

- **Background:** Slight gray tone (#F9FAFB) for neutral workspace.
- **Highlight:** Blue (#2563EB) for buttons and key actions.
- **Code blocks:** Dark mode for better readability.
- **Typography:** Monospace for API text areas.

14.5 Shared Dashboard Elements

Element	Description
Sticky Top Bar	Navigation and status feedback
Responsive Tables	Dynamic resizing, column collapse
Charts	Use Recharts or Chart.js (responsive, animated)
Tooltips & Popovers	Explain metrics on hover
Global Filters	Reusable component across dashboards
Empty States	Illustrations + clear CTAs ("No frauds detected yet")

14.6 Wireframe Summary: Visual Hierarchy

- Top-level: Summary metrics → immediate insights.
- Mid-level: Actionable tables or charts.
- Bottom-level: Detailed logs, supporting info.
- Interaction emphasis: fewer clicks, faster decisions.

Section 15–16: Design System & Navigation Framework

1. Design System Overview

The Property Eye design system should balance **credibility, intelligence, and approachability** — signaling both **trust** (important for financial and legal credibility) and **tech innovation** (as a data-driven fraud detection platform).

It will define the visual and interaction standards across all product surfaces — marketing site, dashboards, and mobile experiences — to maintain **consistency, clarity, and efficiency** for developers and designers.

2. Core Design Principles

Principle	Description
Clarity	Prioritize readability and visual hierarchy. Every element should serve a purpose.
Trust & Security	Design choices should evoke reliability — avoid loud or overly playful visuals.
Data Legibility	Present analytics and fraud insights with crisp charts, clear contrasts, and minimal clutter.
Scalability	Ensure the design system scales to future modules (e.g., financial reconciliation, alerts).
Accessibility	Meet WCAG 2.1 AA standards for color contrast, keyboard navigation, and readable text.

3. Color Palette

Primary Palette

Color	Hex	Usage
Property Eye Blue	#003B73	Primary brand color (headers, CTAs, accents)
Slate Gray	#5C6670	Body text, icons
White Smoke	#F8F9FB	Dashboard backgrounds
Signal Green	#31B67A	Success/fraud resolved indicators
Alert Amber	#F5A623	Warning or pending states
Alert Red	#D9534F	Fraud or critical alert highlights

Secondary Palette

Color	Hex	Usage
Royal Blue Tint	#E6EEF7	Backgrounds for cards and highlights

Graphite Black	#1E1E1E	Headings and key contrasts
Soft Blue Gray	#E2E8F0	Dividers, subtle separators

> Usage Tip:

> Primary blue anchors the brand; secondary colors support visual hierarchy. Red and amber should be reserved exclusively for fraud/warning visual cues — this preserves their semantic power.

abc 4. Typography

Type	Font	Usage
Headings	Poppins (700)	Used for primary headers, section titles
Body	Inter (400–500)	General body copy, labels
Numbers / Data	Roboto Mono	Used in dashboards and analytics for numerical clarity

Rules:

- Maintain consistent letter-spacing (0.5–1px for headers).
 - Line height ~140% for improved readability.
 - Avoid all-caps except in tags or statuses.
-

✳️ 5. Component Library

Buttons

- Primary CTA → Filled, #003B73, white text.
- Secondary → Outlined, same blue with hover inversion.
- Destructive → Red background, white text (for delete/flag actions).
- Disabled State → 40% opacity, no hover effect.

Inputs & Forms

- Rounded corners (8px).
- Default border #E2E8F0, focus border #003B73.
- Use icons for context (e.g., magnifying glass for search).

Cards

- 16px padding minimum.
- Drop shadow rgba(0,0,0,0.06).
- Hover elevation for interactivity.
- Clickable cards should visually differ with a subtle border color shift.

Tables & Data Grids

- Use alternating row background #F8F9FB for readability.
- Sticky headers with shadow for scroll.

- Fraud flags in red badges, resolved in green.

Charts & Data Visualization

- Prefer minimalist visualizations.
 - Use line charts for trends, bar charts for categorical comparisons.
 - Fraud detection trend line in blue; fraud spikes in red markers.
-

6. Responsive Design Framework

Device	Breakpoints	Layout Behavior
Desktop	≥1200px	Full 3-column dashboard layout with side navigation
Tablet	768–1199px	Collapsible side navigation; cards stack 2-column
Mobile	≤767px	Top navigation only; stacked vertical layout; charts convert to swipeable cards

Navigation Behavior:

- Hamburger menu for mobile.
 - Sticky top bar with quick search and notifications.
 - Floating action button (FAB) for “Report Fraud” on mobile dashboard.
-

7. Navigation Framework

Global Navigation (Visible to All Users)

Nav Item	Access	Destination
Home	All	Marketing landing page
About	All	Info on Property Eye and mission
Pricing	All	Subscription tiers
Contact	All	Support and partnership inquiries
Login / Sign Up	All	Authentication pages

Authenticated Navigation (Inside App)

Nav Item	Role	Destination
Dashboard	Admin / Agent	Overview analytics
Fraud Records	Admin / Agent	List of flagged cases

Agencies	Admin	Manage registered agencies
Analytics	Admin	Fraud trends, monthly reports
Settings	Admin / Agent	Profile, billing, integration keys
Help / Support	All	Documentation, support contact

Cross-Linking Examples

- From **Fraud Record Details**, link to → *Agency Profile* → *Property Page* → *Fraud Analytics*.
 - From **Dashboard Summary Card**, link to filtered views in “Fraud Records.”
 - From **Settings > Integrations**, link to documentation modal or API token page.
-

8. Layout Patterns & UI Behaviors

- **Page Layout Grid:** 12-column responsive grid.
 - **Spacing System:** 8px multiplier (8, 16, 24, 32, 48).
 - **Animations:**
 - Fade-in for modals.
 - Slide transitions for navigation.
 - Microinteractions for buttons and toggles.
 - **Feedback:**
 - Toast notifications for success/error.
 - Inline validation on forms.
-

9. Dark Mode (Optional Future Extension)

A dark mode palette can be introduced later for analytics-heavy users:

- Background: #1C1C1C
- Cards: #2A2A2A
- Text: #FFFFFF
- Accent: #31B67A

Section 17: Implementation Handoff & Collaboration Framework

1. Handoff Objective

The purpose of this section is to ensure a **smooth transition** from design to development — minimizing ambiguity, enforcing consistency, and enabling iterative feedback between the design, product, and engineering teams.

This section outlines:

- File structure & deliverable expectations
 - Design–development synchronization process
 - Versioning & documentation requirements
 - Testing and QA alignment
-

2. Deliverable Structure for Design Handoff

The UI/UX designer should prepare a **Figma project** structured as follows:

Main Folder: “Property Eye – Final UI System”

A. Style Guide

- Typography scale and usage examples
- Color system (with HEX, RGB, and contrast validation)
- Components (buttons, modals, inputs, tables, graphs, cards)
- Spacing, grid, and alignment rules
- Iconography set (16px, 24px, 32px)

B. Design Tokens (for Dev Reference)

Exportable tokens to be used in Tailwind / CSS variables:

```
{  
  "color-primary": "#003B73",  
  "color-success": "#31B67A",  
  "color-alert": "#D9534F",  
  "font-heading": "Poppins, sans-serif",  
  "font-body": "Inter, sans-serif",  
  "border-radius": "8px",  
  "shadow-card": "0 2px 6px rgba(0,0,0,0.06)"  
}
```

C. Page Mockups

Each page should have:

- **Desktop, Tablet, and Mobile** versions
- Clear annotations (tooltips or comment bubbles) for:
 - Interaction states
 - Dynamic content sections
 - Hover / active behaviors

D. Prototype Flows

- End-to-end clickthrough prototypes for key journeys:
 - Agent signup → dashboard onboarding
 - Admin login → fraud review flow
 - API integration → data sync setup

E. Dashboard Views

- Separate pages for **Admin, Agent, and Sandbox** views.
- Include annotated cards showing:
 - Real data placeholder (e.g., “12 Fraud Cases This Month”).

- Color-coded states for fraud level indicators.
- Expected hover/click states.

F. Assets & Exports

- Logos (SVG + PNG)
 - Icon set
 - Illustrations or data visuals (if any custom ones are used)
 - Responsive banners for homepage & dashboard
-

3. Developer Handoff (Technical Prep)

The development team should have access to:

1. **Figma project link** (with Dev Mode enabled).
2. **Component specs** (accessible in Inspect panel).
3. **CSS variable sheet** (auto-generated via Figma plugin such as Tokens Studio or Zeplin).
4. **API documentation references** (internal property fraud endpoints or Alto API integration details).

Environment Setup Notes

- Frontend framework: **Next.js / React (TypeScript)**
 - Styling: **Tailwind CSS** (mapped to design tokens)
 - Charts: **Recharts / Chart.js** for fraud analytics visualization
 - Authentication: **OAuth2 / JWT**
 - Hosting: **Vercel or AWS Amplify**
-

4. Design-Development Workflow

Stage	Responsibility	Output
Kickoff Sync	Designer + PM + Dev	Confirm scope, roles, and deadlines
Design Iteration	Designer	Wireframes → high-fidelity UI
Design QA	Designer + Dev	Cross-check spacing, fonts, and components
Development Sprint	Dev team	Build features per page
Integration QA	Dev + Product	Test API connections, data rendering
UAT (User Acceptance Testing)	Internal + 2–3 pilot agencies	Validate flow and performance
Go-Live Prep	All	SEO, analytics setup, content freeze

5. Testing & QA Framework

Functional Testing

- All dashboard interactions (filters, pagination, modals, form submissions).

- Fraud detection feed – real-time data rendering validation.

Visual QA

- Spacing, shadows, hover states, and responsive breakpoints.
- Mobile-first testing across iPhone, Android, and tablet screens.

Accessibility QA

- Screen reader support.
- Keyboard tab navigation.
- WCAG contrast compliance.

Performance QA

- Lighthouse benchmark > 90 score.
 - Lazy loading for tables and charts.
 - API response caching for dashboard data.
-

🔔 6. Documentation & Versioning

Tools

- **Version Control:** GitHub (main branch: `production`, dev branch: `staging`)
- **Design Versioning:** Figma → Version History + “Release Candidate” labels
- **Documentation:**
- README in repo root (build steps, environment setup).
- `/docs` folder for API and integration details.

Update Cadence

- Weekly design review (UI alignment & feedback loop).
 - Bi-weekly sprint showcase to demonstrate functional builds.
-

🏗 7. Collaboration & Communication

Tool	Purpose
Slack / Teams	Daily standup and async comms
Notion / Confluence	Central product documentation
Figma Comments	Pixel-level feedback
Linear / Jira	Design and development ticket tracking

Each Figma screen should link to its Jira ticket (via ID in the footer or comment), ensuring traceability from design → dev → QA.

✳️ 8. Rollout Plan

1. **Phase 1:** Build static marketing website (Home, About, Pricing, Contact, Login/Signup).

2. **Phase 2:** Implement dashboards (Admin, Agent, Sandbox).
 3. **Phase 3:** Integrate fraud detection API + real estate data feed.
 4. **Phase 4:** Enable analytics visualization and reporting.
 5. **Phase 5:** Conduct Beta testing with 2-3 agencies before launch.
-

9. Final Deliverable Checklist

Deliverable	Owner	Format
Figma design file	UI/UX Designer	.fig
Style guide & tokens	UI/UX Designer	JSON + Figma
Component library	Dev Lead	Storybook / React
Frontend build	Dev Team	Next.js repo
API integration	Dev Team	Internal documentation
QA & UAT report	QA Lead	PDF / Notion
Launch checklist	PM	Shared doc

10. Summary

Property Eye bridges a critical trust gap in real estate by detecting and flagging potential fraudulent property sales — protecting agencies from commission losses.

This document provides a **complete handoff brief** for the design and dev teams to implement a cohesive, scalable, and data-centric platform.

The final product should deliver:

- A seamless onboarding experience for real estate agencies.
 - A highly visual, insight-rich dashboard for fraud tracking.
 - A scalable and secure backend to manage sensitive data.
 - A professional, modern design system conveying trust and intelligence.
-

End of Handoff Document