# Real Estate Analytics Dashboard – Feature Overview Project url:[https://analytics-dashboard-xi-two.vercel.app/](https://analytics-dashboard-xi-two.vercel.app/acquisition) Instructions to login: 1.open the given url 2.click on demo login (it will auto fill up and take you to dashboard)

Platform Highlights

* Acquisition Management Suite - page
* URL & Brand Management - page
* Interactive Property Mapping - page
  + Custom Maps – Highlight listings with dynamic markers.
  + Drawing Tools – Annotate, shape, and label regions on the map.
  + Persistent Overlays – Save your annotations across sessions.
  + Smart Clustering & Filtering – Zoom out without losing detail or control.
  + default markers based on selected fields from table
* PowerBi – site integrated with powerbi Charts API
* AI-Powered Assistant
  + Conversational Chatbot – Ask complex queries like "Show properties in Austin city".
  + AI-Based Property Recommendations – Get intelligent suggestions tailored to your needs.
  + Automated Platform Navigation – Let the bot take you where you need to go.
  + Context-Aware Search – Truly smart filtering and querying.
  + AI-Powered Location Queries – Ask for properties in awkward or lesser-known city areas, and let the AI handle fuzzy matches and intent understanding.
  + Auto-Populated Filters from DB – Smart field inputs that generate options from the database in real time, ensuring accuracy and speed.
* Enterprise-Grade Authentication
  + - JWT-based Auth via NextAuth.js – Secure, scalable user management.
  + - Role-Based Access – Limit sensitive areas with granular control.
  + - Session Handling – Auto session security and renewals.
* Mobile-First Experience
  + - Fully Responsive Design – Optimized for mobile, tablet, and desktop.
  + - Touch-Optimized Interactions – Smooth gesture support.
  + - Adaptive Components – Layouts that scale beautifully on any screen.
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* UI/UX
  + - Dark & Light Themes – Toggle with saved preferences.
  + - Modern UI Components – Built with shadcn/ui .
  + - Subtle Animations –micro-interactions.
* Lightning-Fast APIs
  + - Secure Auth APIs – Handle sessions and user info safely.
  + - Fast Data APIs – Cached endpoints.
  + - Dynamic Filters API – Adapts filters to current dataset context.
  + - PowerBI Integration – Plug directly into BI infrastructure.

Technology Stack

- Framework: Next.js 15 (App Router), React 18

- Styling: Tailwind CSS + shadcn/ui

- State: Zustand

- Mapping: Leaflet / React Leaflet

- Charts: Recharts & custom visual components

- Auth: NextAuth.js (JWT-based)

- Validation: Zod (Type-safe schema validation)

- Dev Tools: ESLint, Prettier, Husky

Project Structure

src/

├── app/ # Next.js App Router

│ ├── (auth)/ # Authentication routes

│ ├── (dashboard)/ # Dashboard routes

│ │ ├── (routes)/ # Dashboard pages

│ │ │ ├── acquisition/# Acquisition view

│ │ │ ├── market/ # Market view

│ │ │ └── urls/ # URLs/Brands view

│ ├── api/ # API routes

│ └── globals.css # Global styles

├── components/ # React components

│ ├── layout/ # Layout components

│ └── ui/ # UI components

├── hooks/ # Custom React hooks

├── lib/ # Utility functions

├── services/ # API services

└── types/ # TypeScript types

Quick Start

Prerequisites

- Node.js 18+

- npm or yarn package manager

Installation & Setup

# Clone and install

git clone [repository-url]

cd real-estate-dashboard

npm install

# Start development server

npm run dev

# Open in browser

http://localhost:3000

First Login

1. Navigate to the login page

2. Use your credentials to access the dashboard

3. Explore the Market, Acquisition, and URL management pages

4. Try the AI chatbot by asking "Show me properties in [your area]"

📈 Performance Metrics

- Load Time: < 2 seconds initial page load

- Mobile Score: 95+ Lighthouse performance

- Accessibility: WCAG 2.1 AA compliant

- SEO Optimized: Server-side rendering with Next.js

🔧 Development & Deployment

Code Quality

npm run lint # ESLint checking

npm run format # Prettier formatting

npm run type-check # TypeScript validation

Production Build

npm run build # Optimized production build

npm run start # Production server

Deployment Options

- Vercel: One-click deployment (recommended)

- Docker: Containerized deployment ready

- Traditional Hosting: Static export available