

AI Sales Qualification Bot

1. Problem Statement

Real estate businesses face a constant challenge of efficiently managing incoming buyer inquiries from multiple channels such as property listing sites, Facebook Ads, Google Ads, WhatsApp messages, and direct website forms.

While a high inquiry volume sounds positive, a deeper analysis reveals three major operational problems:

1. Wasted Sales Resources

- Sales teams spend excessive time manually engaging with leads who may have no intention to purchase, lack the budget, or are simply browsing.
- This reduces focus on high-quality prospects who could convert faster.

2. Delayed Lead Engagement

- Human follow-ups often take hours or days, by which time the lead may have already contacted other realtors.
- Even high-intent buyers slip away due to lack of immediate response.

3. Missed Opportunities

- Without a structured qualification process, hot leads are buried in spreadsheets or overlooked in a busy agent's inbox.
- Potential buyers are lost simply due to slow or inconsistent communication.

Goal:

Design and implement an **AI-driven lead qualification, scoring, and routing system** that automatically:

- Engages leads within seconds of inquiry
- Assesses buyer intent using intelligent questioning
- Assigns priority scores and routes leads accordingly
- Ensures all leads, even unqualified ones, receive timely communication for future nurturing

This solution aims to **maximize sales efficiency, improve conversion rates, and create a scalable, automated process.**

2. Tech Stack Used

The project leverages a low-code automation platform combined with AI services and communication APIs to build a scalable and intelligent qualification engine.

Core Tools

- n8n – The central automation and orchestration platform where the entire workflow logic is executed.
- OpenAI API – Provides AI-driven natural language understanding to hold meaningful qualification conversations and generate lead scores based on responses.

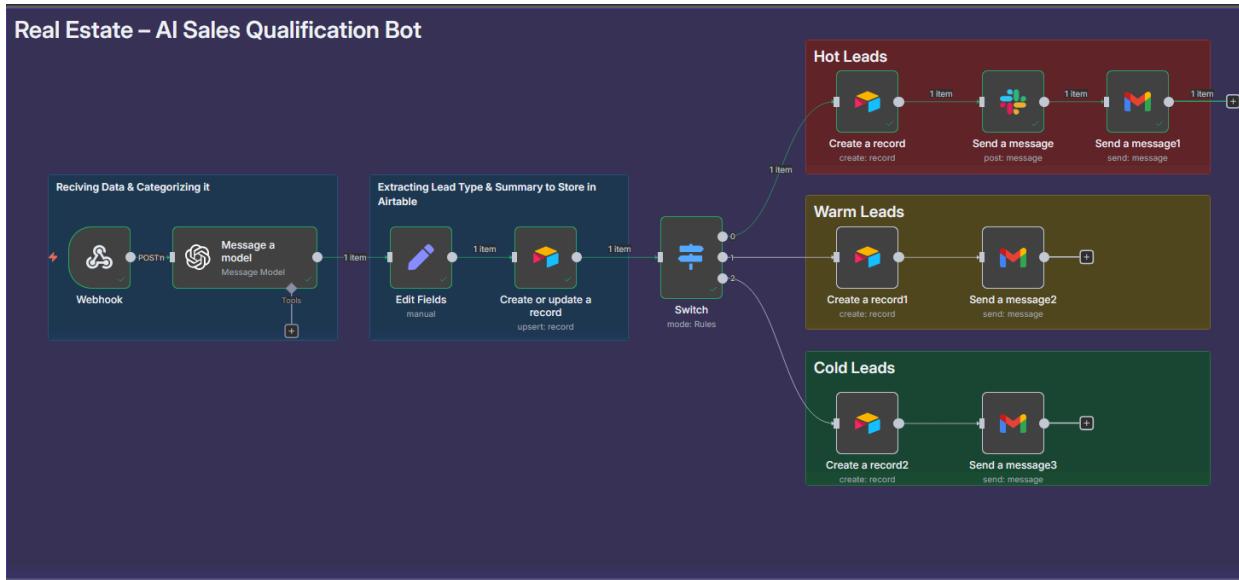
- Webhook – Acts as the entry point for incoming lead data from multiple external sources.
- Google Sheets / Airtable – Used as structured lead databases for storage, tracking, and analytics.
- Email / WhatsApp API – For instant outbound communication with leads and internal notifications for sales teams.

Optional / Enhanced Integrations

- Retell AI / Vapi – Enables AI-powered voice conversations for phone-based lead qualification.
- ElevenLabs – Generates natural-sounding AI voice for audio follow-ups or automated calls.
- AWS – Used for server hosting, backend processing, and secure data storage if needed.

This tech stack ensures fast deployment, flexibility, and easy integration with existing CRM systems.

3. Solution Workflow



Step-by-Step Flow :

The automation is structured in **six key stages**, ensuring that **every lead is processed, qualified, and engaged** within seconds of submission.

Stage 1: Lead Capture

- **Trigger:** A lead submits an inquiry via:
 - Website property interest form
 - Facebook/Instagram Lead Ads
 - WhatsApp chat widget
 - Google Ads click-to-message campaigns
- **Action:** A **Webhook** in n8n receives the data in real-time, capturing:
 - Name, contact details (email/phone)

- Property interest details (location, type)
 - Budget range (if provided)
 - Timeframe for purchase
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Stage 2: AI Qualification

- **AI Conversation (OpenAI API):**
 - The bot sends an instant automated greeting and asks targeted qualification questions:
 - “What is your preferred location for purchase?”
 - “Do you have an approximate budget in mind?”
 - “When are you planning to make a purchase?”
 - The AI uses context-aware understanding to handle varied responses naturally.
 - **Result:** Responses are fed into a scoring algorithm to determine buyer intent.
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Stage 3: Data Structuring

- **Edit Fields Node (n8n):**

- Cleans incoming text (e.g., converting “next few months” into a structured timeline like **2-3 months**).
 - Formats currency values into standard numeric ranges.
 - Ensures all records have uniform structure for storage.
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Stage 4: Lead Storage

- **Create or Update Record Node:**

- The processed lead data is saved in **Google Sheets or Airtable** with timestamps, source channel, AI score, and status (**High**, **Medium**, **Low**).
 - This database acts as both a **CRM-lite** and a **reporting dashboard**.
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Stage 5: Scoring & Routing Logic

- **Switch Node (n8n Decision Logic):**

Based on the AI score:

- **High Score (Hot Leads)**
 - Add to database
 - Send instant **WhatsApp/Email alert** to sales agents with lead details

- Optionally trigger a voice call via Vapi or Retell AI
 - **Medium Score (Warm Leads)**
 - Add to database
 - Send **nurture campaign message** (e.g., property recommendations, financing tips)
 - Schedule follow-up reminders in CRM
 - **Low Score (Cold Leads)**
 - Add to database
 - Send **polite thank-you message** with an option to connect in the future
 - No immediate human follow-up
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Stage 6: Automated Messaging

- Depending on score, the system sends:
 - **Personalized WhatsApp messages** with relevant property links
 - **Email follow-ups** using marketing automation
 - Internal **Slack/Email notifications** for sales agents