# Al Full Stack developer Assignment – GrowEasy

Website: https://groweasy.ai

### Stipend/Salary Structure

- 1. Full-Time Internship:
  - Fixed Stipend: ₹12,500 per month
  - o Performance Bonus: Up to ₹2,500 per month
- 2. Full-Time Job (6+ Months Experience Required):
  - Fixed Salary: ₹25,000 per month
  - o Performance Bonus: Up to ₹5,000 per month



Create a chat-based AI agent (simulated WhatsApp bot) that:

- 1. Receives a lead and initiates a conversation.
- 2. Qualifies the lead as:
  - Hot
  - Cold
  - Invalid

The agent must be configurable to represent different industries, starting with a real estate use case.

## X Scope & Requirements

- Core Functionality
  - 1. Simulate WhatsApp-like conversation:
    - Agent starts a chat upon receiving a new lead.
    - Text-only communication (no actual WhatsApp integration).
  - 2. Conversational Al Logic:
    - Behaves like a human sales assistant.
    - Ask relevant questions (e.g., intent, budget, urgency).
    - Classifies leads as Hot, Cold, or Invalid.
  - 3. Configurable Behavior:
    - Prompts, domain knowledge, and qualifying criteria driven by a configurable business profile.
    - Implement for real estate first, but design for easy extension to other industries.

## Input & Output

- Input:
  - Lead info: Name, phone, source, [optional] message.
  - Business configuration: Industry, qualifying questions, rules.
- Output:
  - Chat transcript (JSON or text).
  - Final classification (Hot/Cold/Invalid).
  - Extracted metadata (e.g., budget, location, timeline).

## Suggested Tech Stack

- Language: JavaScript (Node.js) Mandatory
- Model: OpenAl GPT (or any LLM, can use Langchain)
- Interface: CLI, Web (React), or Postman-friendly API

• Note: No WhatsApp API required — simulate chat via web UI.

## Deliverables

- 1. GitHub repository with:
  - o Code.
  - o README with setup instructions.
  - Sample input/output.
  - Config file format for business profiles.
- 2. Demo video (2-3 minutes) explaining the approach.
- 3. Email above details to these emails- varun@groweasy.ai, CC: tej@groweasy.ai

## Expectations

- 1. Config file to customize:
  - o Industry.
  - o Location.
- 2. Chat interface to interact with the agent.
- 3. Storage of classification results (file, log, or database).

## Bonus Points

- Smart fallback for unresponsive leads.
- Natural, empathetic responses.
- Industry-agnostic plugin/config support.
- Deployable API or web app demo.

## 77 Deadline

Submit within 3 days of receiving this assignment.

## Sample Chat Transcript

### **HOT LEAD EXAMPLE**

Lead Info:

Name: Rohit Sharma

• Source: Website inquiry

• Initial Message (Optional): "Hi, I'm interested in buying a property."

Al Agent (GrowEasy Realtor):

[Automated greeting + first question]

in: "Hi Rohit! Thanks for reaching out. I'm your GrowEasy real estate assistant. Could you share which city/location you're looking for?"

Rohit:

! "Pune, preferably near Kalyani Nagar."

Al Agent:

[Follow-up to gauge intent]

in: "Great! Are you looking for a flat, villa, or plot? Also, is this for investment or personal use?"

Rohit:

■: "2BHK flat for personal use. Need to move in within 3 months."

## Al Agent:

## [Budget check]

in: "Understood! What's your budget range? (e.g., 50L-80L)"

#### Rohit:

**Q**: "Max 75L."

## Al Agent:

## [Urgency check]

in: "Got it. Would you like to schedule a site visit this week? We have ready-to-move options matching your criteria."

#### Rohit:

: "Yes, please share available slots."

## Classification & Metadata

### Result:

- Lead Status: Hot (High intent, clear budget, urgent timeline)
- Extracted Metadata:

o Location: Pune (Kalyani Nagar)

o Property Type: 2BHK Flat

o Budget: ₹75L

o Timeline: 3 months

o Purpose: Personal use

#### **COLD LEAD EXAMPLE**

#### Lead Info:

• Name: Priya Patel

Source: Facebook Ad

### **Chat Transcript:**

🔖: "Hi Priya! Welcome to GrowEasy Realtors. Are you looking to buy or rent a property?"

**1**: "Just browsing options right now."

interests you?"

: "Not sure yet, maybe Mumbai suburbs."

in: "Got it. What's your approximate budget range?"

: "Haven't decided. Just send me some listings."

in ancing options?"

(No response after 24 hours)

#### Classification:

- Status: Cold (Vague requirements, no urgency, unresponsive to closing questions)
- Metadata:
  - Location: Mumbai (unspecified)

o Intent: Browsing

Engagement: Low

### **INVALID LEAD EXAMPLE**

#### Lead Info:

• Name: "Test User"

• Source: Website form

### **Chat Transcript:**

in: "Hello! How can we assist you with your property search?"

: "asdfghjkl"

in: "Could you clarify your property requirements?"

**!** "123456789"

in: "This appears to be a test entry. Please contact us if you have genuine inquiries!" (No meaningful response)

#### Classification:

- Status: Invalid (Gibberish/non-serious input, likely bot/spam)
- Metadata:

o Reason: Fake/test entry

o Action: Flagged for review