Create an Agentic AI Workflow in n8n for Business Lead Generation Assistant

# Use Case: Automate Business Lead Generation using Google Maps and Website Crawler AI Agent

## Assignment:

You are developing an AI-powered business lead generation system using n8n. This system will automate the process of discovering and aggregating business leads using Google Maps data and website content scraping.  
The workflow performs the following tasks:  
- Accepts a user's input request (e.g., “Find salons in Chicago”).  
- Uses Google Maps Scraper to extract business listings based on the search keyword and location.  
- Crawls each business website using Apify's Website Content Crawler to gather deeper insights.  
- Enriches and stores the structured business and website data in Google Sheets.  
- Aggregated results can be used for outreach, analysis, or CRM integration.

## Workflow Requirements:

### 1. AI-Powered Lead Collection Trigger

- Trigger: Activated when a user sends a lead generation request (e.g., via chatbot or form).  
- AI Agent: Interprets request using GPT-Js and memory tools.  
- Google Search Fallback: Enriches data if Maps results are incomplete.

### 2. Google Maps Extractor Subworkflow

- Trigger: Starts on subworkflow call.  
- Scraper: Uses Apify Google Maps Scraper to extract business names, addresses, and contact details.  
- Save Data: Structured business listings are saved to Google Sheets.  
- Aggregation: Listings are organized and prepared for next stage processing.

### 3. Website Content Crawler Subworkflow

- Input: Uses URLs from business listings to target their websites.  
- Scraper: Uses Apify Website Content Crawler to extract relevant website information such as services, email contacts, keywords.  
- Save Data: Website content is stored in Google Sheets.  
- Aggregation: Merges business listing data with website insights.

## Expected Outcome:

Each time a user initiates a lead generation request:  
- Business listings are pulled from Google Maps and stored in Google Sheets.  
- Each business's website is crawled for deeper insights and added to the database.  
- A consolidated business profile is created and can be exported or integrated into sales systems.