Hackathon Problem Statement

Vibe Navigator — Your AI-Powered City Explorer

Problem Statement :

Build a modern web application that scrapes user-generated reviews from online platforms such as Google Maps, Reddit, or TripAdvisor about public locations like cafes, parks, gyms, or other social spots in any given city.

The goal is to use Generative AI to analyze and summarize the 'vibe' of each location based on the reviews. The summaries should be presented in a friendly, playful tone and include relevant citations from the source reviews.

Implement an interactive experience where users can select vibe tags (e.g., “aesthetic”, “quiet”, “lively”, “nature-filled”) to receive a personalized tour plan or list of suggested locations.

Using LLM + RAG (Retrieval-Augmented Generation), the Vibe Navigator should function like a personal GenAI concierge, recommending spots in a natural storytelling format and citing real user reviews to support each recommendation.

But this isn't just another summarizer. We're looking for:

- Clean architecture
- Mobile-first is a plus
- Clean, minimal UX
- Scalable design decisions
- AI grounded in real, retrieved evidence
- And optionally… a GenAI Agent that behaves like a vibe-expert friend helping you plan your day out.

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User Features

- **Search by City & Category**

  Example: “Cafes in Delhi”, “Parks in Bangalore”

- **Get Vibe Cards**

  Visually engaging cards summarizing each location’s vibe with:

  - Emojis & mood indicators (☕🌿🎶🔥)
  - Tags like ‘cozy’, ‘aesthetic’, ‘lively’, ‘budget-friendly’

- **Personalized Queries**

  Support natural language prompts like:

  “Tell me a great coffee shop in Delhi with a floral theme”

- **Transparent Summaries with Review Citations**
  Every summary should reference the exact review(s) it was derived from to maintain traceability and trust.

🔥 **Bonus Points** (These are not mandatory but will set standout submissions apart)

🤖 Build a Vibe AI Agent

Let the user chat naturally with an agent who responds like a friend who "knows the city"

Give recommendations through storytelling (e.g., "Start your day at this cozy floral cafe, then stroll over to a quiet bookshop…")

The agent should: Use retrieval-based memory , Be persona consistent (casual, witty, or poetic)

Recommended Tech Stack :

- Web Scraping: BeautifulSoup, Selenium, Puppeteer
- Backend: Python (FastAPI/Flask), Node.js
- Frontend: React.js or Next.js with visual components
- GenAI: OpenAI or similar LLM + Embeddings + RAG pipeline
- Storage: MongoDB / PostgreSQL
- Optional: Map integrations using Google Maps (Use openstreetmap)

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Submission Requirements :

- Deployed web app URL (make sure it works!)
- GitHub repository link (Must be Public)
- Demo video explaining your project (LinkedIN post URL) (3-4 Minutes Max)
- Resume (PDF format) (Must be Public)

Duration & Timeline

- Hackathon Duration: 72 hours (3 days)
- Hackathon Dates: July 10th to July 13th, 2025

Evaluation Criteria :

1. Accuracy of location suggestions and vibe summaries
2. Real-time or near real-time scraping and response
3. Use of Retrieval-Augmented Generation (RAG) for review grounding
4. Creative and intuitive user interface with helpful visual indicators (cards, maps, emojis)
5. Overall performance and system reliability
6. Code quality and GitHub hygiene
7. Communication and pitch clarity

Rules:

- All work must be original. Plagiarism, code duplication, or using pre-built templates without credit will lead to disqualification.
- Respect the timeline and submission guidelines. Late entries will not be evaluated.
- All decisions by the evaluation panel will be final and binding.

Final Note

This challenge is your canvas, think like a product designer, act like a system architect, built like a full-stack AI engineer.

We're not just testing skills, we're spotting future builders of the next-gen GenAI interfaces.

Good luck, and let the vibes guide you.