Project Requirements & Workflow Document

# 📌 Project Name:

Influencer Food Map

# 🔍 Objective:

Build a dynamic, searchable, and map-based website that displays restaurants visited by YouTube food influencers (e.g., Mark Wiens, Alexander the Guest Food). The listings are automatically or semi-automatically extracted from influencer videos (YouTube), including restaurant names, addresses, ratings, and associated influencer metadata.

# 🗺️ Key Features

## Interactive Map Interface

* - Map with location markers for restaurants
* - Clickable pins showing: Restaurant name, influencer name, Visit date, Video link, Snippets
* - City and country filters
* - Influencer filter (USA, UK, PK food influencers)

## Search & Filtering

* - By city, influencer, category (BBQ, street food, fine dining)
* - Text search for restaurant name or location

## Listing Detail Page

* - Restaurant Name, Location (lat/lng, address)
* - Branch name
* - Influencer(s)
* - Embedded YouTube Video
* - Video summary
* - Quotes from video
* - Google rating
* - Live status
* - Tags

## Influencer Profile Pages

* - Bio, Region
* - Number of videos scraped
* - Map of visited places
* - YouTube metadata

## Admin Dashboard

* - Manually add/edit/delete listings
* - Approve scraped listings
* - Add/remove influencers

# ⚙️ Workflow (End-to-End Automation/Manual Hybrid)

• Influencer Discovery: Maintain a list of influencer channels, stored in DB with metadata

• YouTube Video Scraper: Fetch new videos, titles, descriptions using YouTube API

• Video Processing Pipeline: Transcribe videos with Whisper, summarize with OpenAI

• Entity Recognition & Extraction: Extract restaurants/cities via NLP, validate with Google Maps API

• Store in Database: Structured listing with metadata and confidence score

• Frontend Map Display: Display using Mapbox or Google Maps API

# 🧰 Tech Stack (Flexible)

Frontend: React.js / Next.js, Tailwind, Mapbox  
Backend: Supabase (PostgreSQL) or Firebase  
Automation: Python (YouTube API, Whisper, GPT-4, Google APIs)  
Hosting: Vercel or Firebase Hosting  
Admin Panel: React/Nextjs Admin or Supabase Studio  
Storage: Supabase (videos/meta) or Airtable  
Deployment: GitHub + Docker

# 🔐 APIs to Use

* - YouTube Data API v3 – fetch influencer videos
* - Google Maps Places API – validate and fetch restaurant location & rating
* - Whisper/OpenAI API – transcription and summarization
* - Mapbox/Google Maps API – map view and geolocation display

# ✅ Deliverables

* - Responsive Web App (Map + Listings)
* - Admin Dashboard
* - Automated Video-to-Listing Pipeline
* - Influencer Profiles
* - Documentation: API Keys & Setup, Scraper Usage, Admin Usage Guide