

Perfect! Here's your **finalized and updated project documentation**, with the new **clarified LLM model selection** and **temperature impact** added in the right place, without changing any of your original structure or priorities.

Project Specification: AI-Powered Social Interaction Monitor

Version: Free (MVP) – Browser-Based Only

Goal:

Build a lightweight, free tool that helps users monitor competitor brand mentions on Reddit and Quora, discover relevant threads, and generate AI-powered replies — without any backend database or login system.

Primary Objective

Create a browser-based (no-database) tool that:

- Identifies threads where a **competitor is mentioned but your brand is not** → mark as “Opportunity”
 - Finds **high-traffic, engaging threads** by keyword or niche
 - Generates **AI replies** (Informational / Promotional)
 - Allows **regeneration** and **copying** of replies
 - Supports **manual thread management** and **PDF reporting**
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Modules Overview

1. **Brand Opportunity Finder**

Input:

- Your Brand Name & URL
- Competitor Brand Name & URL

Process:

- Use `site:reddit.com` and `site:quora.com` + competitor name via Serper API
- Identify threads where competitor is mentioned but user's brand is not
- Mark these as "Opportunity"

Output:

- Thread link
 - Keyword context
 - AI reply (Informational or Promotional)
 - Regenerate + Copy
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2. Thread Discovery by Keyword

Input:

- Keyword(s) / Niche / Service

Process:

- Use Google query with `site:` filters via Serper API
- Extract threads
- Show most engaging (views, freshness, title relevance)

Output:

- List of threads
 - AI reply generation (info/promo)
 - Copy & regenerate functionality
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3. AI-Powered Reply Generation

- Use **ChatGPT API** (user provides key)
 - Choose reply type: **Informational** or **Promotional**
 - Optional **Brand Description** for personalization
 - Option to **Regenerate**
 - **Copy** button
 - **Tone slider** (Friendly, Confident, Bold)
 - Analyze existing thread replies to improve AI response
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4. Rescan Alert System

- After scan, user sets an alert: 1 or 7 days
 - Rescan checks for:
 - New competitor mentions
 - Missed opportunities
 - Alerts run via browser storage (no backend)
 - Real-time alert panel with preview + copy
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5. PDF Export (Performance Report)

- Export:
 - Threads discovered
 - Opportunities
 - Replies generated
 - Rescan notes
 - Timestamps
 - Well-formatted: tables, charts, icons, KPIs
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User Customization & API Settings

1. Add your own **Serper.dev** API key
 2. Add your own **AI model API** via dropdown:
 - ChatGPT (OpenAI), Claude, Perplexity, Gemini
 3. **Dropdown to select GPT model**
 - Examples: `gpt-4`, `gpt-4o`, `gpt-3.5`, `claude-3-opus`, etc.
 4. **Set Temperature value** (0 to 1) for creativity control
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Temperature Sensitivity (Quality Control)

When the user adjusts the **temperature setting**, the system must reflect the change in **reply creativity and tone**:

- A **low temperature** (0–0.3) = **factual, concise, formal** replies
- A **high temperature** (0.7–1) = **creative, persuasive, more casual** replies

✓ Temperature value must directly impact the **style and quality of AI-generated replies**.

5. Optional Brand Description Field

- Used to fine-tune and improve relevance in AI replies



Thread Discovery & Display Enhancements

1. Show **number of views/upvotes** for Reddit/Quora
2. Show **full content preview** (not just title)
3. Include **Facebook & Twitter** threads (where possible)
4. Extract **fresh competitor mentions**
5. Find **new threads via keyword**, sorted by engagement/freshness



Thread Intelligence & Prioritization

1. **Sentiment-based Opportunity Scoring**
 - Negative competitor mentions = higher priority
2. **Mention Context Preview** (snippet around mention)
3. **Categorize Mentions**
 - Issues, Alternatives, Comparisons
4. **Auto-tag Threads by Topic**
 - e.g., [AI], [Pricing], [Support], [Feature Request]



Reporting & Monitoring

1. **PDF Performance Reports**
 - Includes charts, KPIs, tables
2. **Live/Removal Post Tracking**
 - Track if replies are still live
3. **Real-Time Alert Panel**
 - Current alerts with preview/copy
4. **Scheduled Re-scan Feature**
 - Set interval: 1 day, 7 days, etc.



User Experience – Free Version Focus

- **No login/account system**
 - **No database** required
 - All data handled via browser memory or temporary cache
 - Fully front-end & lightweight
 - Ideal for testing and internal use
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Tools & APIs to Be Used

Component	Technology/Method
Google Results Scraping	Serper.dev (user provides key)
AI Reply Generation	ChatGPT API / other AI API (user key)
UI	No-code (Softr, Glide, Bubble, Replit UI)
PDF Export	Browser-based PDF generator
Caching	Browser localStorage

Future-Ready Plan (Won't Interfere with Free Version)

These features will be added modularly in later versions to avoid disrupting the current free structure.

Future Expansion Modules (Optional)




- Add User Accounts & Login
 - Multi-project / multi-brand support
 - Database Layer (Airtable / Supabase free tier)
 - Reply history + engagement tracking
 - AI Performance Stats
 - Team roles per project
 - Analytics Dashboard
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Summary for No-Code Developer

Feature	Build Now?	Notes
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Brand Opportunity via Serper.dev	✓	Google query using site:
Keyword Thread Discovery	✓	Filtered by engagement
AI Reply Generation (Info/Promo)	✓	ChatGPT or other models
Regenerate + Copy Buttons	✓	Simple button logic
Tone & Temperature Settings	✓	Customize GPT response behavior
Optional Brand Description	✓	Added relevance for AI
Thread Content & Views	✓	Display in UI
Rescan Alert & Reminder	✓	Use localStorage
PDF Export	✓	Threads + replies + charts
Social Thread Sources (FB/Twitter)	✓	When available
Sentiment Scoring & Tags	✓	Thread-level meta logic
User Accounts & DB	✗	Future phase only

Let me know how you'd like it exported:

-  PDF
 -  Google Doc
 -  Notion-compatible format
- Or all three — just say the word!