

Seraphina AI System - Design Blueprint

File Pre-requisites & Key Notes

- The system uses `chat.php` as the main controller for AI interaction.
- It supports two endpoints: KoboldAI (`/api`) and OpenAI-compatible (`/v1`).
- A contact support form is planned for fallback situations.
- JS frontend sends messages via fetch() to `chat.php`.
- PHP `\$_SESSION` is used to keep context per user.
- Page-based context switching for Seraphina's mood is planned.
- No need for LoRA training or fine-tuning, system works on a local RTX 4060.

Vision Overview

To build Seraphina, an AI-powered assistant that adapts to different user roles and pages. Seraphina is able to:

- Answer questions dynamically.
- Offer fallback support if unable to answer.
- Adapt her tone depending on context (Homepage, Dashboard, Admin Panel).
- Pull data from the database and interpret it for users in natural language.
- Provide a support form when unsure or unable to help.

AI Configuration Plan

- Scene-based personalities:
 - Homepage: Welcoming, promotional tone.
 - Dashboard: Functional, guiding tone.
 - Admin Panel: Technical, concise tone.
- Prompts will dynamically include [System Info: ...] blocks depending on page and role.
- Intent routing will begin with basic if conditions.
- Future upgrade will include AI-selected actions from a predefined list.

Database Integration Plan

- AI won't directly access the database. Instead, PHP will extract data, then feed context into Seraphina.
- Examples:
 - "What is our top-selling product?" -> getTopProduct()
 - "Show today's total sales." -> getTodaySales()
- Prompts will be injected with actual business data before sent to the AI endpoint.
- Uses db.php or inline connection in chat.php.

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Intent Recognition & Action Map

- Start with if...else chains to detect intent from the user message.
- Example triggers:
 - 'top product' -> top_product
 - 'sales today' -> sales_today
 - 'support form' -> trigger form UI
- Future: Use prompt-based AI response to return a code like top_product, and route that dynamically.

Support Form Handling Plan

- When Seraphina hits her limit, she'll respond with a polite fallback.
- Chat UI will detect this and display a floating contact form.
- Fields: Message (required), Email (optional), Name (optional)
- Form sends data to submit_support.php for logging or emailing.

Multi-User & Session Handling

- Every user gets their own \$_SESSION.
- Each session can carry:
 - user_id, username
 - seraphina_scene or current_page
- This keeps Seraphina's tone, memory, and prompts scoped to each user only.
- Prevents context crossover between users.

Performance and Philosophy

- The system does not rely on large AI models or fine-tuning.
- Focuses on intelligent design of prompts, context, and modular logic.
- Prioritizes speed, efficiency, and human-like UX.
- Built to run smoothly on student-grade hardware like an RTX 4060.
- Seraphina is not just a chatbot, but a modular intelligent support layer.