**Chatbot Platform - Architecture & Design**

1. Technology Stack
   1. Frontend: Simple HTML + Flask-rendered forms
   2. Backend: Python (Flask micro-framework)
   3. Database: SQLite database for users, projects, prompts
   4. AI Integration: Google Generative AI (Gemini) API for chat
2. Authentication & User Flow
   1. User can register (signup), login, and logout (secure using Flask-Login and hashes).
   2. Every logged-in user sees only their projects and chats.
3. Project/Chat Management
   1. Each user can create one or more chatbot projects.
   2. Each project allows chatting with Gemini (AI) through a dedicated chat page.
   3. All questions and answers are fetched live from Gemini API.
4. Security Considerations
   1. Only authenticated users can access, chat, or create/chat projects.
   2. Passwords are hashed and never stored in plain text.
5. Design Highlights
   1. Minimal, single-file Flask design for demo and easy setup.
   2. Easily extendable for file uploads, chat history, analytics, etc.
6. Diagram :

GEMINI API

FLASK

USER

DATABASE

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