Phase 1 Project Plan: The Mini-Phases of AURA.ai MVP

Mission: From Vision to Viable Product, Step-by-Step

We're shifting our approach to a series of strategic mini-phases. This allows our specialized teams to focus on distinct, high-impact goals. By completing each mini-phase, we build confidence, create tangible value, and set the stage for an incredible final product. Let's work smarter, not just faster!

Mini-Phase 1: Foundation & Infrastructure

This phase is all about preparing our workspace and getting the core systems online. It's the essential groundwork that will make everything else possible.

- **Objective:** Establish a robust and scalable technical foundation for the entire application.
- **Key Tasks:**
  - **UI Team:** Set up the Next.js and Tailwind environment. Create the initial, un-styled core components for the chat interface and the main user dashboard.
  - **Backend Team:** Initialize the FastAPI project and connect it to Supabase. This includes setting up the database schema for user authentication.
  - **AI Team:** Set up the Hugging Face environment and begin downloading the core **Llama3 and IndicBERT** models.
  - **Content & Community Team:** Begin the information architecture planning for the resource library and peer forums. Create initial placeholder content for the resource hub.
  - **Offline Team:** Implement the core **PouchDB/CouchDB** synchronization layer, ensuring local data storage is ready to go.

Mini-Phase 2: The Core AI & API Integration

This is where the magic happens! We focus on giving the application its "brain" and connecting it to the user interface.

- **Objective:** Develop and integrate the core AI chatbot and its API.
- **Key Tasks:**
  - **UI Team:** Connect the chat interface components to the new AI API, allowing for real-time conversation flow.
  - **Backend Team:** Build the API endpoints that will act as the bridge between the UI and the AI models.
  - **AI Team:** Fine-tune the **Llama3 and IndicBERT** models on our custom dataset. This is our top priority.

- **Content & Community Team:** Continue gathering and organizing the psychoeducational materials. Begin populating the Supabase database with the first set of curated articles and audio.
- **Offline Team:** Begin preparing the local **DistilBERT** model for the offline chatbot, including any initial data preparation.

Mini-Phase 3: Community & Resource Building

This phase is all about enriching the platform's content and building the peer support systems, which are key to making this a true ecosystem.

- **Objective:** Fully integrate the resource library and establish the secure peer support forums.
- **Key Tasks:**
  - **UI Team:** Create and style the user interfaces for the resource library, peer forums, and discussion threads.
  - **Backend Team: Develop the backend logic for the resource library and the peer support forums, including moderation capabilities.**
  - **AI Team:** Work with the Content & Community Team to develop the AI's "intelligent librarian" feature, which recommends resources based on chat history.
  - **Content & Community Team:** Complete the content population of the resource library. **Establish the initial moderation guidelines for the peer forums.**
  - **Offline Team:** Ensure the synchronization logic is set up to pull all resource library content for offline access.

Mini-Phase 4: Resilience & Crisis Readiness

We build the essential safety nets in this phase. The goal is to ensure the platform is reliable, even in challenging circumstances, and ready to handle critical situations.

- **Objective:** Implement the offline functionality and the life-saving crisis management capability.
- **Key Tasks:**
  - **UI Team:** Create the user interface for crisis alerts and **add interactive links to resource pages and helplines**.
  - **Backend Team:** Finalize the **crisis management** logic to detect keywords and trigger an immediate, life-saving handoff to the appropriate helpline.
  - **AI Team:** Package the lightweight **DistilBERT** model and ensure it's optimized for client-side, offline use.
  - **Content & Community Team:** Populate the database with up-to-date helpline information and crisis-specific resources.
  - **Offline Team:** Fully integrate the **DistilBERT** model with the PouchDB/CouchDB framework, enabling offline, non-crisis chatbot functionality. **Conduct tests to ensure offline access to all static content.**

How We'll Work Together

- **Synchronous Communication:** Daily 15-minute stand-ups where each team shares progress, challenges, and dependencies.
- **Asynchronous Collaboration:** We'll use a shared project board to track tasks and a communication channel to document decisions.
- **Dependencies & Handoffs:** The backend team will provide API endpoints to the UI and AI teams as they are completed. The Offline Team will pull from the Backend and Content & Community databases to ensure data is mirrored locally.

By tackling the project in these manageable mini-phases, we'll maintain focus and celebrate our progress every step of the way. This approach empowers us to build a truly robust and impactful product. Let's get to work!