Brainstorm & Idea Prioritization

This document includes early brainstorming ideas for HematoVision, such as using AI to detect blood disorders, building a web-based diagnostic tool, enabling offline use in rural clinics, and integrating educational features for medical students.

Brainstorming provides a free and open environment that encourages everyone within a

team to participate in the creative thinking process that leads to problem solving.

Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all

participants are encouraged to collaborate, helping each other develop a rich amount of

creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their

imagination and start shaping concepts even if you're not sitting in the same room.

Reference: https://www.mural.co/templates/brainstorm-and-idea-prioritization

**🧠 Brainstorming & Idea Prioritization for HematoVision**

During the ideation phase, multiple ideas were explored for applying AI in hematological diagnostics. The focus was on balancing **feasibility**, **impact**, and **accessibility**. The most promising ideas were then evaluated based on their alignment with real-world challenges.

**✅ Scenario 1: Offline Diagnostic Tool for Rural Clinics**

* **Problem**: Rural areas lack trained pathologists and stable internet access.
* **Idea**: Build a lightweight, offline-capable application using Flask and a pre-trained CNN model for blood cell classification.
* **Why It Was Prioritized**: The ability to run locally with high accuracy makes this idea highly impactful for underserved regions.

**✅ Scenario 2: AI Assistant for Medical Education**

* **Problem**: Medical students and lab technicians need practical exposure to real diagnostic tools.
* **Idea**: Develop an interactive tool that allows users to upload images, receive instant classifications, and understand blood cell morphology through visual outputs.
* **Why It Was Prioritized**: The tool supports learning through feedback and can scale to classrooms, labs, and training programs.

**✅ Scenario 3: Real-Time Support for Pathologists**

* **Problem**: Pathologists deal with high volumes of samples daily, increasing the chance of fatigue and error.
* **Idea**: Integrate HematoVision as a second-opinion AI assistant that offers fast, reliable classification and confidence scores.
* **Why It Was Prioritized**: This enhances diagnostic confidence and speeds up decision-making without disrupting existing workflows.