Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19-Jan-2026
Team ID	LTVIP2026TMIDS65618
Project Name	Hematovision: Advanced Blood Cell Classification using Transfer Learning
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

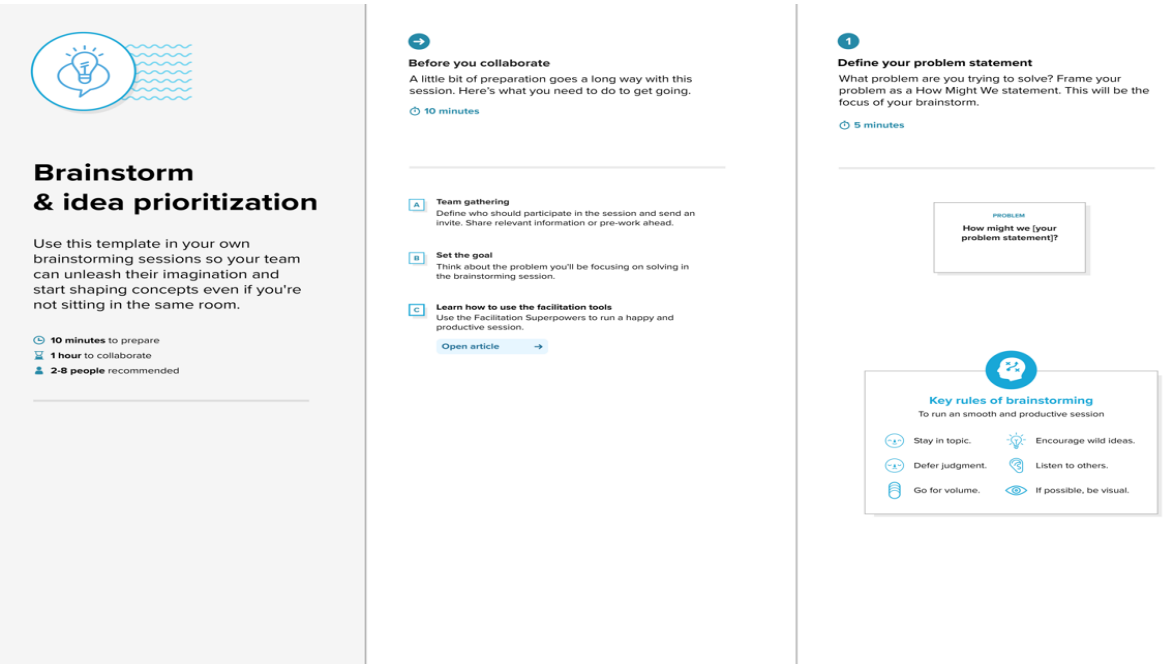
Hematovision is an AI-driven system designed to classify blood cells from microscopic images using advanced transfer learning techniques. The project leverages the power of deep convolutional neural networks (CNNs) pre-trained on large datasets (like ImageNet) and fine-tunes them on specialized blood cell image datasets. This approach ensures high accuracy with limited medical data.

The primary goal is to automate and enhance the process of blood smear analysis, which is critical for diagnosing a range of conditions such as leukemia, anemia, infections, and other hematologic disorders.

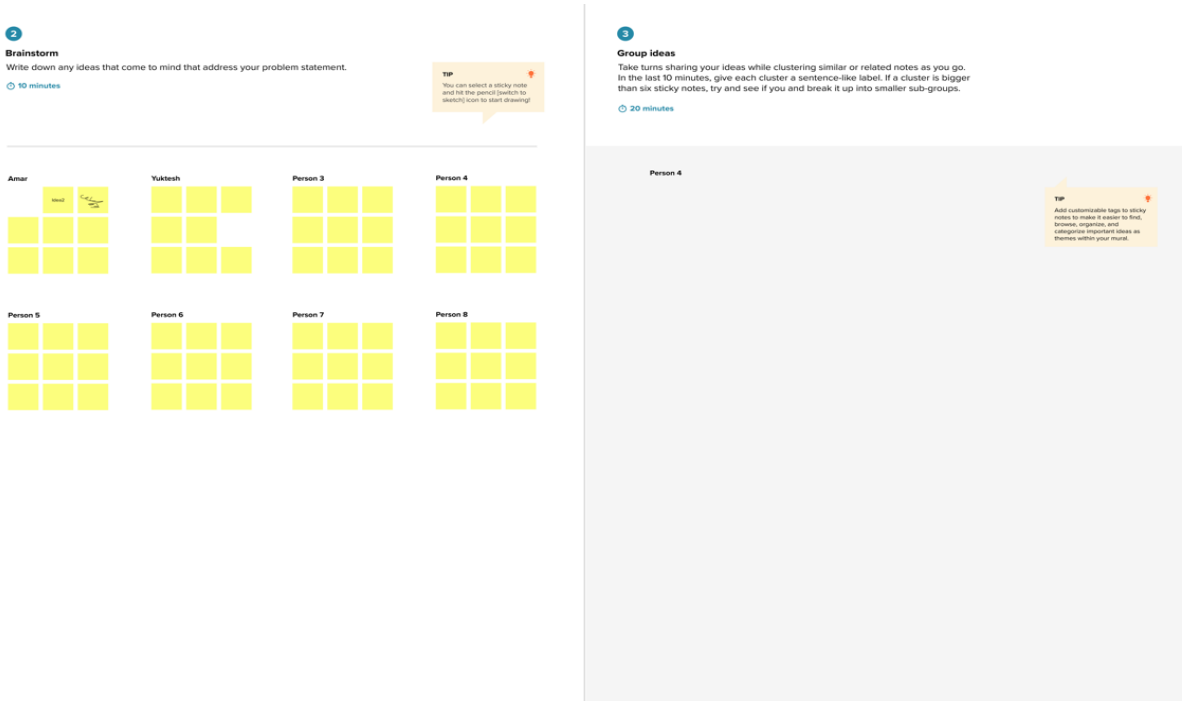
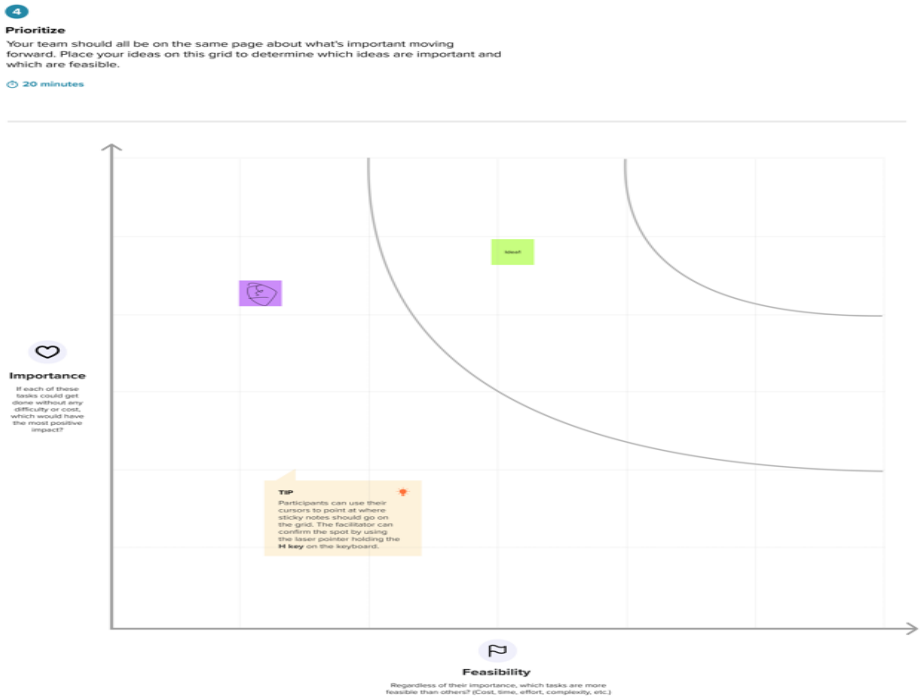
Using state-of-the-art models like ResNet50, EfficientNet, or InceptionV3, the system can distinguish between different types of white blood cells (e.g., neutrophils, lymphocytes), red blood cells, and platelets, as well as detect abnormal or immature cells like leukemic blasts.

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

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization