

## Ideation Phase

### Brainstorm & Idea Prioritization

Date	28 June 2025
Team ID	LTVIP2025TMID60119
Project Name	HematoVision
Maximum Marks	4 Marks

#### Brainstorm & Idea Prioritization :

##### 1. Problem Understanding

- Manual classification is time-consuming and error-prone.
- Need for quick, reliable diagnosis in hospitals and rural labs.
- Can deep learning assist medical professionals?

##### 2. Solution Ideas

Idea	Description
Use Transfer Learning	Use pre-trained models like EfficientNet or ResNet.
Build Web App	User-friendly Flask UI for uploading images.
Focus on 6 Blood Cell Types	RBC, Platelet, Neutrophil, Lymphocyte, Monocyte, Eosinophil.
Auto-Predict with Confidence	Return class + confidence %.
Exportable Reports	Enable saving results as PDF/CSV.
Mobile Version	Use TensorFlow Lite to build an app for rural health workers.
Grad-CAM Heatmaps	Visualize prediction focus areas for transparency.
API Endpoint	Allow hospitals to send images via REST API.
Feedback System	Let users correct wrong predictions to improve the model.
Real-Time Classification	Direct input from digital microscope cameras.

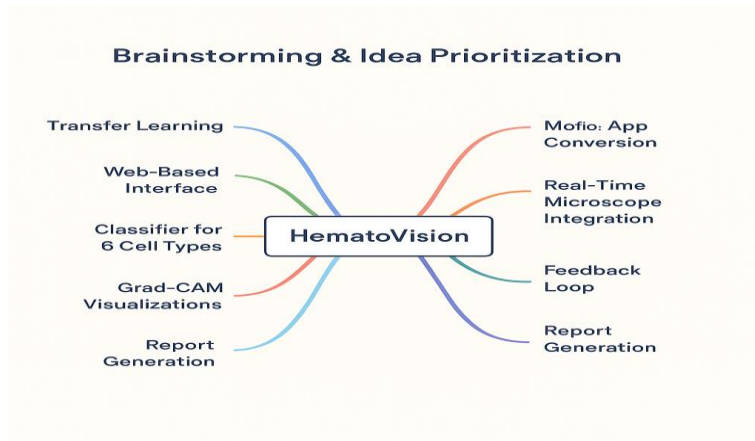
##### 3. User-Centered Features

- Support for high-resolution microscope images
- Simple upload and click-based UI

- Support for edge deployment (low power devices)
- Multi-language or local-language interface (for rural use)

### Creative Add-ons (Future Scope)

- AI-generated lab reports
- QR code-based results download
- Voice-based diagnosis description
- Integration with Electronic Health Records (EHR)



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

## Brainstorm & idea prioritization

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.

🕒 10 minutes to prepare  
🕒 1 hour to collaborate  
👤 2-8 people recommended

**Before you collaborate**  
A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

---

**A Team gathering**  
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

**B Set the goal**  
Think about the problem you'll be focusing on solving in the brainstorming session.

**C Learn how to use the facilitation tools**  
Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →

**1 Define your problem statement**  
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

---

**PROBLEM**

How might we [your problem statement]?

**Key rules of brainstorming**  
To run a smooth and productive session

- Stay in topic.
- Defer judgment.
- Go for volume.
- Encourage wild ideas.
- Listen to others.
- If possible, be visual.

## Step-2: Brainstorm, Idea Listing and Grouping

2

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

**TIP**  
You can select a sticky note and hit the pencil icon to switch to sketch icon to start drawing!

Amar	Yuktresh	Person 3	Person 4
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Person 5	Person 6	Person 7	Person 8
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

3

### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

Person 4

**TIP**  
Add customisable tags to sticky notes to make it easier to find, remove, organise, and categorise important ideas as themes within your mural.