Ideation Phase

Define the Problem Statements

Date	26 June 2025
Team ID	LTVIP2025TMID46251
Project Name	**HematoVision: Advanced Blood Cell Classification Using Transfer Learning**
Maximum Marks	2 Marks

Problem Statement:

Pathologists, lab technicians, and healthcare providers face significant challenges in classifying blood cells using traditional manual methods. These processes are slow, prone to errors, and require skilled expertise, which is often unavailable in rural or under-resourced areas. This leads to diagnostic delays, inconsistent results, and overburdened professionals. Medical students also lack engaging, real-time tools for learning cell classification. There is a strong need for an automated, accurate, and accessible solution that enhances diagnostic efficiency, supports remote healthcare, and improves medical training outcomes.

Customer Problem Statement
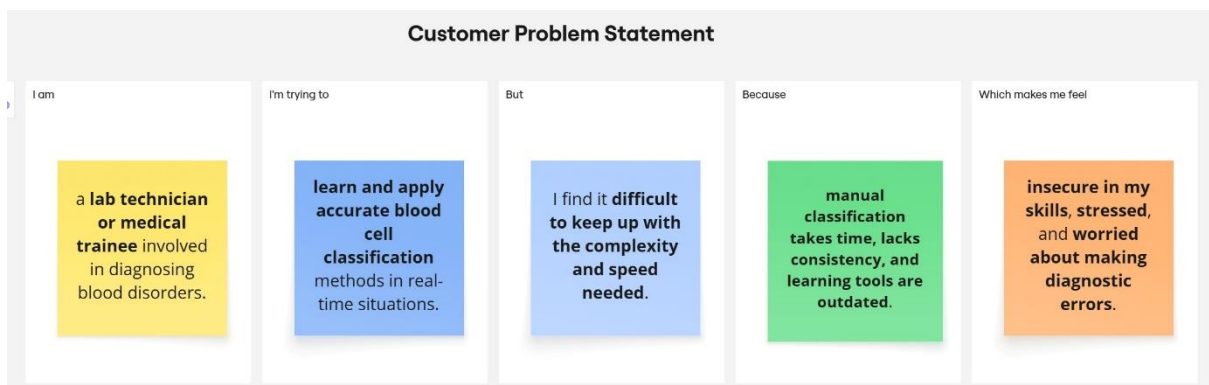
I am	I'm trying to	But	Because	Which makes me feel
a **lab technician or medical trainee** involved in diagnosing blood disorders.	**learn and apply accurate blood cell classification** methods in real-time situations.	I find it **difficult to keep up with the complexity and speed needed**.	**manual classification takes time, lacks consistency, and learning tools are outdated**.	**insecure in my skills**, stressed, and **worried about making diagnostic errors**.