

# Ideation Phase

## Define the Problem Statements

**Date:** 31 January 2025

**Team ID:** LTVIP2026TMIDS91486

**Project Name:** HematoVision – Advanced Blood Cell Classification Using Transfer Learning

**Maximum Marks:** 2 Marks

## Customer Problem Statement Template

Customer Problem Statement Template		
A well-defined problem statement clarifies real challenge faced by users and ensures that solution directly addresses meaningful needs rather assumptions.		
I am	I'm a a medical technician	I'm trying to accurately claud cells from mictaropoc images. But manual examiration is slow, reperisive, and thare prone pronse identifying subtais diiterences, high s-what oonreher and accuracy
I'm trying to	I'medicary lechnican	Describe the problems problems stand in blood smears efficiently Because identifying subtle motroblogical differences requiral expertise. Which makes me feel bububrened and concerned about diagnostic accuracy
because	I'am a diagnostic laboratory / healthcare facility But traditional large volumes s methods limit thruoguht	
PS- 2	I'am a diagisian / healthcare provider But delays experr is -intentstive is sample evalimive, evaluateines. Ethat needs to limited. Which makes m feel constrained operational infficiencies	
PS-3 (Optional but strong addition)	<b>Why These Problem Statements Matter</b> <ul style="list-style-type: none"><li>✓ Diagnostic accuracy</li><li>✓ Automation of repesitive tasks</li><li>✓ Reduction of human error</li><li>✓ Scalability in medical workflows</li></ul>	

a medical laboratory technician

I'm trying to

accurately classifiat blood cells from images

But

manual examination is slow, reporetive and prone of fatigue-related errors

Because

identifying subtle motraloduiqual differences requires high high concentration and expertise

Which makes me feel

Overtvardurned concerned about diagossic acctraacy

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<b>PS No.</b>	<b>User / Role</b>	<b>Goal / Trying to Do</b>	<b>Problem / But...</b>	<b>Reason / Because...</b>	<b>Feeling / Which makes me feel...</b>
PS-1	Medical laboratory technician	Accurately classify blood cells from microscopic images	Manual examination is slow, repetitive, and prone to fatigue-related errors	Identifying subtle morphological differences requires high concentration and expertise	Overburdened and concerned about diagnostic accuracy
PS-2	Diagnostic laboratory / healthcare facility	Process large volumes of blood smear samples efficiently	Traditional analysis methods limit throughput	Expert review is time-intensive and resources are limited	Constrained by operational inefficiencies
PS-3	Clinician / healthcare provider	Obtain reliable blood analysis results quickly	Delays can occur in sample evaluation	Cell classification relies heavily on manual workflows	Concerned about timely decision-making